Energy Research and Development Division
FINAL PROJECT REPORT

ASSESSING LONG-TERM DYNAMICS OF BIRD DISTRIBUTIONS IN RELATION TO CLIMATE CHANGE: FROM GRINNELL TO PRESENT

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APPENDIX 1:
The 220 Bird Species Detected in Historic or Modern Surveys

Naïve estimates include the number of occupied sites in the historic and modern eras, including estimates of the number of sites that were locally colonized, went extinct, or persisted. An asterisk following the common name of a species indicates it was one of the 100 species for which occupancy analyses were performed. Species listed in phylogenetic order.

Common Name	Scientific Name	Occupied sites, historic	Occupied sites, modern	Number of sites with local colonization	Number of sites with local extinction	Number of sites with local persistence
Brant	*Branta bernicla*	1	1	1	1	0
Canada Goose	*Branta canadensis*	0	10	10	0	0
Wood Duck	*Aix sponsa*	0	6	6	0	0
Gadwall	*Anas strepera*	0	1	1	0	0
Mallard	*Anas platyrhynchos*	0	31	31	0	0
Cinnamon Teal	*Anas cyanoptera*	0	1	1	0	0
Surf Scoter	*Melanitta perspicillata*	2	0	0	2	0
White-winged Scoter	*Melanitta fusca*	1	0	0	1	0
Bufflehead	*Bucephala albeola*	0	1	1	0	0
Common Merganser	*Mergus merganser*	2	18	16	0	2
Red-breasted Merganser	*Mergus serrator*	2	0	0	2	0
Mountain Quail*	*Oreortyx pictus*	20	29	12	3	17
California Quail*	*Callipepla californica*	41	53	16	4	37
Ruffed Grouse	*Bonasa umbellus*	0	2	2	0	0
Sooty Grouse (Blue Grouse)	*Dendragapus fuliginosus*	4	3	3	4	0
Wild Turkey	*Meleagris gallopavo*	0	21	21	0	0
Red-throated Loon	*Gavia stellata*	0	1	1	0	0
Pacific Loon	*Gavia pacifica*	0	1	1	0	0
Common Loon	*Gavia immer*	0	3	3	0	0
Eared Grebe	*Podiceps nigricollis*	1	0	0	1	0
Western Grebe	*Aechmophorus occidentalis*	1	0	0	1	0
Clark's Grebe	*Aechmophorus clarkii*	0	2	2	0	0
Brandt's Cormorant	*Phalacrocorax penicillatus*	1	2	2	1	0
Double-crested Cormorant	*Phalacrocorax auritus*	4	8	5	1	3
Pelagic Cormorant	*Phalacrocorax pelagicus*	1	2	2	1	0
American White Pelican	*Pelecanus erythrorhynchos*	0	1	1	0	0
Brown Pelican	*Pelecanus occidentalis*	3	2	1	2	1
Great Blue Heron	*Ardea herodias*	13	12	6	7	6
Great Egret	*Ardea alba*	0	3	3	0	0
Snowy Egret	*Egretta thula*	0	1	1	0	0
Green Heron	*Butorides virescens*	3	6	5	2	1
Black-crowned Night-Heron	*Nycticorax nycticorax*	3	2	0	1	2

Common Name	Scientific Name	Occupied sites, historic	Occupied sites, modern	Number of sites with local colonization	Number of sites with local extinction	Number of sites with local persistence
Turkey Vulture*	*Cathartes aura*	46	50	15	11	35
California Condor	*Gymnogyps californianus*	0	2	2	0	0
Osprey	*Pandion haliaetus*	3	18	15	0	3
White-tailed Kite	*Elanus leucurus*	0	6	6	0	0
Bald Eagle	*Haliaeetus leucocephalus*	0	7	7	0	0
Northern Harrier	*Circus cyaneus*	2	1	0	1	1
Sharp-shinned Hawk	*Accipiter striatus*	5	5	5	5	0
Cooper's Hawk*	*Accipiter cooperii*	11	9	6	8	3
Northern Goshawk	*Accipiter gentilis*	1	0	0	1	0
Red-shouldered Hawk*	*Buteo lineatus*	0	30	30	0	0
Red-tailed Hawk*	*Buteo jamaicensis*	40	37	14	17	23
Golden Eagle	*Aquila chrysaetos*	6	6	5	5	1
American Kestrel*	*Falco sparverius*	23	16	6	13	10
Peregrine Falcon	*Falco peregrinus*	2	3	1	0	2
Prairie Falcon	*Falco mexicanus*	0	1	1	0	0
Virginia Rail	*Rallus limicola*	0	1	1	0	0
Common Moorhen	*Gallinula chloropus*	0	1	1	0	0
American Coot	*Fulica americana*	1	1	1	1	0
Semipalmated Plover	*Charadrius semipalmatus*	0	2	2	0	0
Killdeer*	*Charadrius vociferus*	14	21	13	6	8
Black Oystercatcher	*Haematopus bachmani*	1	2	2	1	0
Spotted Sandpiper*	*Actitis macularius*	11	12	3	2	9
Wandering Tattler	*Tringa incana*	1	0	0	1	0
Greater Yellowlegs	*Tringa melanoleuca*	0	2	2	0	0
Lesser Yellowlegs	*Tringa flavipes*	0	1	1	0	0
Whimbrel	*Numenius phaeopus*	0	1	1	0	0
Long-billed Curlew	*Numenius americanus*	0	1	1	0	0
Marbled Godwit	*Limosa fedoa*	0	1	1	0	0
Least Sandpiper	*Calidris minutilla*	0	2	2	0	0
Red-necked Phalarope	*Phalaropus lobatus*	1	0	0	1	0
Red Phalarope	*Phalaropus fulicarius*	1	0	0	1	0
Heermann's Gull	*Larus heermanni*	1	2	1	0	1
Ring-billed Gull	*Larus delawarensis*	1	0	0	1	0
Western Gull	*Larus occidentalis*	4	9	5	0	4
California Gull	*Larus californicus*	0	3	3	0	0
Glaucous-winged Gull	*Larus glaucescens*	1	1	1	1	0
Herring Gull	*Larus argentatus*	1	0	0	1	0
Caspian Tern	*Hydroprogne caspia*	0	4	4	0	0
Common Murre	*Uria aalge*	0	1	1	0	0
Pigeon Guillemot	*Cepphus columba*	1	2	2	1	0
Marbled Murrelet	*Brachyramphus marmoratus*	2	1	1	2	0
Rock Pigeon	*Columba livia*	0	5	5	0	0
Band-tailed Pigeon*	*Patagioenas fasciata*	23	38	21	6	17

Common Name	Scientific Name	Occupied sites, historic	Occupied sites, modern	Number of sites with local colonization	Number of sites with local extinction	Number of sites with local persistence
Eurasian Collared-Dove	*Streptopelia decaocto*	0	5	5	0	0
Mourning Dove*	*Zenaida macroura*	41	52	18	7	34
Greater Roadrunner	*Geococcyx californianus*	2	0	0	2	0
Barn Owl	*Tyto alba*	7	2	2	7	0
Flammulated Owl	*Otus flammeolus*	2	0	0	2	0
Western Screech-Owl	*Megascops kennicottii*	11	0	0	11	0
Great Horned Owl	*Bubo virginianus*	24	11	6	19	5
Northern Pygmy-Owl	*Glaucidium gnoma*	2	8	7	1	1
Spotted Owl	*Strix occidentalis*	1	2	2	1	0
Barred Owl	*Strix varia*	0	2	2	0	0
Northern Saw-whet Owl	*Aegolius acadicus*	0	1	1	0	0
Common Nighthawk	*Chordeiles minor*	6	3	3	6	0
Common Poorwill	*Phalaenoptilus nuttallii*	8	3	2	7	1
Black Swift	*Cypseloides niger*	1	0	0	1	0
Vaux's Swift*	*Chaetura vauxi*	9	8	4	5	4
White-throated Swift*	*Aeronautes saxatalis*	5	9	5	1	4
Black-chinned Hummingbird	*Archilochus alexandri*	1	2	2	1	0
Anna's Hummingbird*	*Calypte anna*	19	57	39	1	18
Costa's Hummingbird	*Calypte costae*	0	1	1	0	0
Calliope Hummingbird	*Stellula calliope*	5	0	0	5	0
Rufous Hummingbird	*Selasphorus rufus*	3	4	3	2	1
Allen's Hummingbird*	*Selasphorus sasin*	21	33	18	6	15
Belted Kingfisher*	*Megaceryle alcyon*	17	14	5	8	9
Lewis's Woodpecker	*Melanerpes lewis*	4	1	0	3	1
Acorn Woodpecker*	*Melanerpes formicivorus*	37	45	12	4	33
Red-breasted Sapsucker*	*Sphyrapicus ruber*	7	11	7	3	4
Nuttall's Woodpecker*	*Picoides nuttallii*	21	28	10	3	18
Downy Woodpecker*	*Picoides pubescens*	18	37	25	6	12
Hairy Woodpecker*	*Picoides villosus*	36	51	25	10	26
White-headed Woodpecker	*Picoides albolarvatus*	7	3	0	4	3
Northern Flicker*	*Colaptes auratus*	49	64	19	4	45
Pileated Woodpecker*	*Dryocopus pileatus*	7	31	26	2	5
Olive-sided Flycatcher*	*Contopus cooperi*	30	25	7	12	18
Western Wood-Pewee*	*Contopus sordidulus*	43	42	10	11	32
Willow Flycatcher	*Empidonax traillii*	7	4	4	7	0
Hammond's Flycatcher*	*Empidonax hammondii*	4	10	9	3	1
Gray Flycatcher	*Empidonax wrightii*	0	4	4	0	0
Dusky Flycatcher*	*Empidonax oberholseri*	7	8	6	5	2
Pacific-slope Flycatcher*	*Empidonax difficilis*	36	58	23	1	35
Black Phoebe*	*Sayornis nigricans*	29	34	18	13	16
Say's Phoebe	*Sayornis saya*	4	2	0	2	2
Ash-throated Flycatcher*	*Myiarchus cinerascens*	27	35	10	2	25
Western Kingbird*	*Tyrannus verticalis*	19	19	7	7	12

Common Name	Scientific Name	Occupied sites, historic	Occupied sites, modern	Number of sites with local colonization	Number of sites with local extinction	Number of sites with local persistence
Loggerhead Shrike*	*Lanius ludovicianus*	8	1	0	7	1
Bell's Vireo	*Vireo bellii*	2	0	0	2	0
Cassin's Vireo*	*Vireo cassinii*	33	36	11	8	25
Hutton's Vireo*	*Vireo huttoni*	26	51	28	3	23
Warbling Vireo*	*Vireo gilvus*	44	55	17	6	38
Gray Jay	*Perisoreus canadensis*	4	2	1	3	1
Steller's Jay*	*Cyanocitta stelleri*	49	58	10	1	48
Western Scrub-Jay*	*Aphelocoma californica*	41	46	11	6	35
Clark's Nutcracker	*Nucifraga columbiana*	1	0	0	1	0
Black-billed Magpie	*Pica hudsonia*	1	1	1	1	0
Yellow-billed Magpie	*Pica nuttalli*	6	5	3	4	2
American Crow*	*Corvus brachyrhynchos*	25	26	11	10	15
Common Raven*	*Corvus corax*	16	60	45	1	15
Horned Lark	*Eremophila alpestris*	4	0	0	4	0
Purple Martin*	*Progne subis*	13	9	3	7	6
Tree Swallow*	*Tachycineta bicolor*	15	11	9	13	2
Violet-green Swallow*	*Tachycineta thalassina*	25	45	24	4	21
Northern Rough-winged Swallow*	*Stelgidopteryx serripennis*	2	25	24	1	1
Bank Swallow	*Riparia riparia*	0	2	2	0	0
Cliff Swallow*	*Petrochelidon pyrrhonota*	28	29	13	12	16
Barn Swallow*	*Hirundo rustica*	12	18	9	3	9
Black-capped Chickadee	*Poecile atricapillus*	0	4	4	0	0
Mountain Chickadee*	*Poecile gambeli*	10	7	0	3	7
Chestnut-backed Chickadee*	*Poecile rufescens*	25	43	19	1	24
Oak Titmouse*	*Baeolophus inornatus*	24	32	11	3	21
Bushtit*	*Psaltriparus minimus*	36	52	24	8	28
Red-breasted Nuthatch*	*Sitta canadensis*	13	29	17	1	12
White-breasted Nuthatch*	*Sitta carolinensis*	29	31	11	9	20
Pygmy Nuthatch*	*Sitta pygmaea*	9	16	12	5	4
Brown Creeper*	*Certhia americana*	22	44	23	1	21
Rock Wren	*Salpinctes obsoletus*	3	3	2	2	1
Canyon Wren	*Catherpes mexicanus*	5	5	4	4	1
Bewick's Wren*	*Thryomanes bewickii*	26	46	22	2	24
House Wren*	*Troglodytes aedon*	34	41	15	8	26
Winter Wren*	*Troglodytes hiemalis*	10	26	17	1	9
Marsh Wren	*Cistothorus palustris*	0	5	5	0	0
Blue-gray Gnatcatcher*	*Polioptila caerulea*	18	28	14	4	14
American Dipper	*Cinclus mexicanus*	6	5	2	3	3
Golden-crowned Kinglet*	*Regulus satrapa*	5	26	21	0	5
Ruby-crowned Kinglet	*Regulus calendula*	5	4	3	4	1
Wrentit*	*Chamaea fasciata*	46	47	9	8	38
Western Bluebird*	*Sialia mexicana*	39	31	9	17	22

Common Name	Scientific Name	Occupied sites, historic	Occupied sites, modern	Number of sites with local colonization	Number of sites with local extinction	Number of sites with local persistence
Mountain Bluebird	*Sialia currucoides*	2	0	0	2	0
Townsend's Solitaire*	*Myadestes townsendi*	8	10	2	0	8
Swainson's Thrush*	*Catharus ustulatus*	25	28	10	7	18
Hermit Thrush*	*Catharus guttatus*	19	18	6	7	12
American Robin*	*Turdus migratorius*	44	61	19	2	42
Varied Thrush	*Ixoreus naevius*	1	4	3	0	1
Northern Mockingbird	*Mimus polyglottos*	1	5	4	0	1
California Thrasher*	*Toxostoma redivivum*	20	21	5	4	16
European Starling*	*Sturnus vulgaris*	0	28	28	0	0
Cedar Waxwing	*Bombycilla cedrorum*	1	9	9	1	0
Phainopepla	*Phainopepla nitens*	3	3	2	2	1
Orange-crowned Warbler*	*Vermivora celata*	25	52	32	5	20
Nashville Warbler*	*Vermivora ruficapilla*	9	16	12	5	4
MacGillivray's Warbler*	*Oporornis tolmiei*	9	20	15	4	5
Common Yellowthroat*	*Geothlypis trichas*	5	7	6	4	1
Northern Parula	*Setophaga americana*	0	1	1	0	0
Yellow Warbler*	*Dendroica petechia*	25	19	10	16	9
Yellow-rumped Warbler (Audubon)*	*Dendroica coronata*	19	26	13	6	13
Black-throated Gray Warbler*	*Dendroica nigrescens*	23	34	13	2	21
Townsend's Warbler	*Dendroica townsendi*	3	12	11	2	1
Hermit Warbler*	*Dendroica occidentalis*	8	22	17	3	5
Wilson's Warbler*	*Wilsonia pusilla*	28	46	23	5	23
Yellow-breasted Chat*	*Icteria virens*	13	14	9	8	5
Green-tailed Towhee	*Pipilo chlorurus*	5	2	1	4	1
Spotted Towhee*	*Pipilo maculatus*	45	61	17	1	44
California Towhee*	*Pipilo crissalis*	34	41	10	3	31
Rufous-crowned Sparrow*	*Aimophila ruficeps*	3	7	4	0	3
Chipping Sparrow*	*Spizella passerina*	36	17	2	21	15
Lark Sparrow*	*Chondestes grammacus*	17	8	1	10	7
Black-chinned Sparrow	*Spizella atrogularis*	2	0	0	2	0
Sage Sparrow	*Amphispiza belli*	6	5	3	4	2
Savannah Sparrow*	*Passerculus sandwichensis*	8	1	0	7	1
Grasshopper Sparrow	*Ammodramus savannarum*	0	2	2	0	0
Fox Sparrow*	*Passerella iliaca*	7	4	1	4	3
Song Sparrow*	*Melospiza melodia*	35	38	11	8	27
Lincoln's Sparrow	*Melospiza lincolnii*	3	4	3	2	1
White-throated Sparrow	*Zonotrichia albicollis*	0	1	1	0	0
White-crowned Sparrow*	*Zonotrichia leucophrys*	20	15	3	8	12
Golden-crowned Sparrow	*Zonotrichia atricapilla*	5	9	7	3	2
Dark-Eyed Junco*	*Junco hyemalis*	41	58	17	0	41
Western Tanager*	*Piranga ludoviciana*	33	46	18	5	28
Black-headed Grosbeak*	*Pheucticus melanocephalus*	46	53	16	9	37
Blue Grosbeak	*Passerina caerulea*	3	1	1	3	0

Common Name	Scientific Name	Occupied sites, historic	Occupied sites, modern	Number of sites with local colonization	Number of sites with local extinction	Number of sites with local persistence
Lazuli Bunting*	*Passerina amoena*	23	36	21	8	15
Red-winged Blackbird*	*Agelaius phoeniceus*	16	18	12	10	6
Western Meadowlark*	*Sturnella neglecta*	26	13	3	16	10
Brewer's Blackbird*	*Euphagus cyanocephalus*	25	29	14	10	15
Boat-Tailed Grackle	*Quiscalus major*	0	1	1	0	0
Brown-headed Cowbird*	*Molothrus ater*	2	41	40	1	1
Bullock's Oriole*	*Icterus bullockii*	18	26	12	4	14
Purple Finch*	*Carpodacus purpureus*	45	44	8	9	36
Cassin's Finch	*Carpodacus cassinii*	3	3	1	1	2
House Finch*	*Carpodacus mexicanus*	47	30	2	19	28
Red Crossbill	*Loxia curvirostra*	4	4	3	3	1
Pine Siskin*	*Spinus pinus*	22	16	8	14	8
Lesser Goldfinch*	*Spinus psaltria*	42	49	15	8	34
Lawrence's Goldfinch*	*Spinus lawrencei*	12	7	4	9	3
American Goldfinch*	*Spinus tristis*	19	25	11	5	14
Evening Grosbeak	*Coccothraustes vespertinus*	1	7	6	0	1
House Sparrow	*Passer domesticus*	6	4	3	5	1

APPENDIX 2:
The 95 Percent Confidence Model Set (summed weights) of the 324 Models: Colonization (γ) was either parameterized with covariates or with a constant probability, and extinction (ε) was always parameterized as a constant probability

Species are listed in phylogenetic order, with models in ascending order of AICc, such that each species leads with its best-ranked model. Model abbreviations: hTemp = historic annual mean temperature; hPrecip = historic annual precipitation; Δtemp = modern minus historic annual mean temperature; Δprecip = modern minus historic annual precipitation; and hii = human influence index score (i.e., land use intensity).

Species	Model	k	AICc	ΔAICc	Weight
Mountain Quail	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	351.05	0.00	0.10
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	351.56	0.51	0.08
Mountain Quail	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	351.64	0.58	0.08
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(1)	6	352.27	1.22	0.06
Mountain Quail	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	352.43	1.38	0.05
Mountain Quail	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	352.82	1.76	0.04
Mountain Quail	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	352.95	1.90	0.04
Mountain Quail	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	353.01	1.96	0.04
Mountain Quail	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	353.21	2.16	0.03
Mountain Quail	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	353.42	2.36	0.03
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	353.56	2.50	0.03
Mountain Quail	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	353.56	2.51	0.03
Mountain Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	353.73	2.67	0.03
Mountain Quail	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	353.88	2.83	0.02
Mountain Quail	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	353.95	2.90	0.02
Mountain Quail	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	354.25	3.20	0.02
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	354.39	3.34	0.02
Mountain Quail	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	354.41	3.36	0.02
Mountain Quail	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	354.58	3.52	0.02
Mountain Quail	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	354.71	3.66	0.02
Mountain Quail	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	354.75	3.70	0.02
Mountain Quail	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	354.86	3.80	0.02
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	354.95	3.90	0.01
Mountain Quail	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	355.14	4.09	0.01
Mountain Quail	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	355.17	4.11	0.01
Mountain Quail	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	355.30	4.25	0.01
Mountain Quail	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	355.45	4.40	0.01
Mountain Quail	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	355.66	4.60	0.01
Mountain Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	355.70	4.64	0.01
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	355.71	4.65	0.01
Mountain Quail	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	355.75	4.69	0.01
Mountain Quail	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	355.75	4.70	0.01

Species	Model	k	AICc	ΔAICc	Weight
Mountain Quail	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	356.14	5.09	0.01
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	356.18	5.13	0.01
Mountain Quail	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	356.29	5.23	0.01
Mountain Quail	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	356.60	5.55	0.01
California Quail	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	508.11	0.00	0.16
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	509.04	0.93	0.10
California Quail	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	510.17	2.06	0.06
California Quail	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	510.20	2.09	0.05
California Quail	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	510.36	2.25	0.05
California Quail	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	510.39	2.27	0.05
California Quail	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	510.75	2.63	0.04
California Quail	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	510.85	2.73	0.04
California Quail	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	511.11	2.99	0.03
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	511.29	3.18	0.03
California Quail	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	511.47	3.35	0.03
California Quail	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	511.69	3.57	0.03
California Quail	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	512.06	3.95	0.02
California Quail	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	512.53	4.41	0.02
California Quail	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	512.64	4.53	0.02
California Quail	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	512.66	4.55	0.02
California Quail	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	512.75	4.64	0.02
California Quail	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	512.84	4.73	0.01
California Quail	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	512.94	4.83	0.01
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	513.15	5.04	0.01
California Quail	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	513.19	5.07	0.01
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	513.21	5.10	0.01
California Quail	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	513.22	5.11	0.01
California Quail	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	513.38	5.26	0.01
California Quail	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	513.54	5.42	0.01
California Quail	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	513.66	5.54	0.01
California Quail	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	513.76	5.65	0.01
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	513.80	5.69	0.01
California Quail	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	513.87	5.75	0.01
California Quail	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	513.89	5.78	0.01
California Quail	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	513.95	5.83	0.01
California Quail	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	514.00	5.89	0.01
California Quail	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	514.07	5.95	0.01
California Quail	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	514.08	5.97	0.01
California Quail	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	514.68	6.57	0.01
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	514.98	6.87	0.01
California Quail	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	515.10	6.98	0.00
California Quail	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	515.12	7.00	0.00
Turkey Vulture	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	635.80	0.00	0.19
Turkey Vulture	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	636.62	0.81	0.12
Turkey Vulture	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	637.50	1.70	0.08
Turkey Vulture	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	637.61	1.81	0.08
Turkey Vulture	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	638.05	2.25	0.06
Turkey Vulture	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	638.07	2.26	0.06
Turkey Vulture	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	638.49	2.69	0.05
Turkey Vulture	p(era) + ψ(1) + γ(hii) + ε(1)	6	638.71	2.91	0.04

Species	Model	k	AICc	ΔAICc	Weight
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	638.73	2.93	0.04
Turkey Vulture	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	639.38	3.57	0.03
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	639.66	3.86	0.03
Turkey Vulture	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	639.89	4.09	0.02
Turkey Vulture	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	640.00	4.19	0.02
Turkey Vulture	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	640.29	4.49	0.02
Turkey Vulture	p(date + era) + ψ(1) + γ(hii) + ε(1)	7	640.61	4.81	0.02
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	640.73	4.93	0.02
Turkey Vulture	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	640.83	5.03	0.02
Turkey Vulture	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	640.93	5.13	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	641.05	5.25	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	641.49	5.69	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	641.98	6.18	0.01
Turkey Vulture	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	642.26	6.46	0.01
Cooper's Hawk	p(1) + ψ(hTemp) + γ(hii) + ε(1)	6	219.58	0.00	0.08
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	8	219.91	0.34	0.07
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	7	221.39	1.81	0.03
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	221.52	1.95	0.03
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	7	221.57	2.00	0.03
Cooper's Hawk	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	221.60	2.02	0.03
Cooper's Hawk	p(date) + ψ(hTemp) + γ(hii) + ε(1)	7	221.77	2.19	0.03
Cooper's Hawk	p(date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	221.85	2.27	0.03
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	221.98	2.40	0.02
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	222.20	2.62	0.02
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(Δprecip) + ε(1)	6	222.34	2.77	0.02
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	222.37	2.80	0.02
Cooper's Hawk	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	222.38	2.81	0.02
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	8	222.93	3.36	0.01
Cooper's Hawk	p(1) + ψ(elevation) + γ(Δprecip) + ε(1)	6	222.98	3.41	0.01
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	223.00	3.42	0.01
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	8	223.09	3.51	0.01
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	9	223.10	3.52	0.01
Cooper's Hawk	p(1) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	7	223.16	3.59	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(hii) + ε(1)	8	223.23	3.65	0.01
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	223.30	3.73	0.01
Cooper's Hawk	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	223.35	3.77	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	8	223.35	3.77	0.01
Cooper's Hawk	p(1) + ψ(latitude) + γ(Δprecip) + ε(1)	6	223.51	3.93	0.01
Cooper's Hawk	p(1) + ψ(elevation) + γ(1) + ε(1)	5	223.60	4.03	0.01
Cooper's Hawk	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	223.61	4.04	0.01
Cooper's Hawk	p(1) + ψ(hTemp) + γ(Δtemp) + ε(1)	6	223.63	4.06	0.01
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	223.67	4.09	0.01
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	223.73	4.15	0.01
Cooper's Hawk	p(date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	223.76	4.19	0.01
Cooper's Hawk	p(1) + ψ(latitude) + γ(hii) + ε(1)	6	223.81	4.23	0.01
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	223.84	4.27	0.01
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(hii) + ε(1)	6	223.86	4.28	0.01
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	223.88	4.31	0.01
Cooper's Hawk	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	224.20	4.63	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	224.21	4.64	0.01

Species	Model	k	AICc	ΔAICc	Weight
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(1)	6	224.23	4.66	0.01
Cooper's Hawk	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	224.29	4.71	0.01
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(hii) + ε(1)	7	224.33	4.75	0.01
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	7	224.34	4.76	0.01
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	224.46	4.88	0.01
Cooper's Hawk	p(date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	224.51	4.94	0.01
Cooper's Hawk	p(1) + ψ(latitude) + γ(1) + ε(1)	5	224.54	4.96	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	6	224.55	4.98	0.01
Cooper's Hawk	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	224.61	5.04	0.01
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(1) + ε(1)	5	224.64	5.06	0.01
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	224.66	5.08	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	8	224.73	5.16	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(hii + Δprecip) + ε(1)	6	224.74	5.16	0.01
Cooper's Hawk	p(1) + ψ(latitude) + γ(Δtemp) + ε(1)	6	224.78	5.20	0.01
Cooper's Hawk	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	224.88	5.30	0.01
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	8	224.92	5.35	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(Δprecip) + ε(1)	5	225.03	5.45	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(hii) + ε(1)	5	225.03	5.45	0.01
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	8	225.14	5.56	0.00
Cooper's Hawk	p(date) + ψ(elevation) + γ(Δprecip) + ε(1)	7	225.14	5.57	0.00
Cooper's Hawk	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	225.15	5.58	0.00
Cooper's Hawk	p(1) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	7	225.20	5.62	0.00
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	225.22	5.64	0.00
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	7	225.23	5.66	0.00
Cooper's Hawk	p(1) + ψ(elevation) + γ(Δtemp) + ε(1)	6	225.29	5.71	0.00
Cooper's Hawk	p(date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	225.35	5.77	0.00
Cooper's Hawk	p(1) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	7	225.37	5.80	0.00
Cooper's Hawk	p(date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	225.40	5.82	0.00
Cooper's Hawk	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	225.58	6.00	0.00
Cooper's Hawk	p(date) + ψ(latitude) + γ(Δprecip) + ε(1)	7	225.64	6.06	0.00
Cooper's Hawk	p(1) + ψ(1) + γ(1) + ε(1)	4	225.69	6.11	0.00
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	225.69	6.12	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	225.71	6.14	0.00
Cooper's Hawk	p(date) + ψ(elevation) + γ(1) + ε(1)	6	225.72	6.15	0.00
Cooper's Hawk	p(date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	225.73	6.15	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	225.75	6.17	0.00
Cooper's Hawk	p(1) + ψ(elevation) + γ(hii) + ε(1)	6	225.79	6.21	0.00
Cooper's Hawk	p(date) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	225.81	6.24	0.00
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	225.84	6.26	0.00
Cooper's Hawk	p(date) + ψ(latitude) + γ(hii) + ε(1)	7	225.95	6.37	0.00
Cooper's Hawk	p(1) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	7	225.98	6.41	0.00
Cooper's Hawk	p(date) + ψ(hPrecip) + γ(hii) + ε(1)	7	226.05	6.47	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	226.14	6.56	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	226.22	6.65	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	226.32	6.74	0.00
Cooper's Hawk	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	226.42	6.85	0.00
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	226.44	6.86	0.00
Cooper's Hawk	p(1) + ψ(1) + γ(Δtemp) + ε(1)	5	226.45	6.87	0.00
Cooper's Hawk	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	226.47	6.89	0.00
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	8	226.59	7.01	0.00

Species	Model	k	AICc	ΔAICc	Weight
Cooper's Hawk	p(date) + ψ(latitude) + γ(1) + ε(1)	6	226.64	7.06	0.00
Cooper's Hawk	p(era) + ψ(latitude) + γ(1) + ε(1)	6	226.71	7.14	0.00
Cooper's Hawk	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	226.77	7.19	0.00
Cooper's Hawk	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	226.78	7.20	0.00
Cooper's Hawk	p(date) + ψ(1) + γ(hii + Δprecip) + ε(1)	7	226.89	7.31	0.00
Cooper's Hawk	p(date) + ψ(latitude) + γ(Δtemp) + ε(1)	7	226.94	7.36	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	227.03	7.46	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	227.05	7.47	0.00
Cooper's Hawk	p(date) + ψ(1) + γ(Δprecip) + ε(1)	6	227.16	7.58	0.00
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	227.16	7.58	0.00
Cooper's Hawk	p(date) + ψ(1) + γ(hii) + ε(1)	6	227.18	7.60	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	227.18	7.61	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	227.20	7.62	0.00
Cooper's Hawk	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	227.31	7.74	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	227.34	7.77	0.00
Red-shouldered Hawk	p(1) + ψ(1) + γ(hii + Δtemp) + ε(1)	6	207.57	0.00	0.30
Red-shouldered Hawk	p(1) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	7	209.54	1.98	0.11
Red-shouldered Hawk	p(date) + ψ(1) + γ(hii + Δtemp) + ε(1)	7	209.77	2.20	0.10
Red-shouldered Hawk	p(1) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	7	209.78	2.22	0.10
Red-shouldered Hawk	p(date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	211.37	3.81	0.05
Red-shouldered Hawk	p(1) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	8	211.79	4.23	0.04
Red-shouldered Hawk	p(date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	212.02	4.45	0.03
Red-shouldered Hawk	p(date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	212.02	4.45	0.03
Red-shouldered Hawk	p(date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	212.02	4.45	0.03
Red-shouldered Hawk	p(1) + ψ(1) + γ(hii + Δprecip) + ε(1)	6	213.22	5.65	0.02
Red-shouldered Hawk	p(1) + ψ(hTemp) + γ(hii) + ε(1)	6	213.25	5.68	0.02
Red-shouldered Hawk	p(1) + ψ(hPrecip) + γ(hii) + ε(1)	6	213.25	5.68	0.02
Red-shouldered Hawk	p(1) + ψ(latitude) + γ(hii) + ε(1)	6	213.25	5.68	0.02
Red-shouldered Hawk	p(date + date^2) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	9	213.47	5.91	0.02
Red-shouldered Hawk	p(date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	213.66	6.09	0.01
Red-shouldered Hawk	p(date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	214.06	6.50	0.01
Red-shouldered Hawk	p(date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	214.06	6.50	0.01
Red-shouldered Hawk	p(1) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	9	214.08	6.51	0.01
Red-shouldered Hawk	p(date + date^2) + ψ(1) + γ(hii) + ε(1)	7	214.34	6.77	0.01
Red-shouldered Hawk	p(1) + ψ(1) + γ(Δtemp) + ε(1)	5	214.36	6.79	0.01
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	581.42	0.00	0.19
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	582.67	1.25	0.10
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	583.33	1.91	0.07
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	583.67	2.25	0.06
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	583.67	2.25	0.06
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	583.67	2.25	0.06
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(1)	6	584.52	3.10	0.04
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	584.54	3.12	0.04
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	584.99	3.58	0.03
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	585.39	3.97	0.03
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	585.62	4.20	0.02
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	585.62	4.20	0.02
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	585.62	4.20	0.02
Red-tailed Hawk	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	585.69	4.27	0.02
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	585.95	4.54	0.02

Species	Model	k	AICc	ΔAICc	Weight
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	585.95	4.54	0.02
Red-tailed Hawk	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	586.73	5.32	0.01
Red-tailed Hawk	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	586.73	5.32	0.01
Red-tailed Hawk	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	586.73	5.32	0.01
Red-tailed Hawk	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	587.59	6.17	0.01
Red-tailed Hawk	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	587.75	6.33	0.01
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	587.90	6.48	0.01
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	587.90	6.48	0.01
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	587.90	6.48	0.01
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	587.94	6.52	0.01
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	587.94	6.52	0.01
Red-tailed Hawk	p(date + era) + ψ(1) + γ(1) + ε(1)	6	588.30	6.88	0.01
Red-tailed Hawk	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	588.98	7.57	0.00
Red-tailed Hawk	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	588.98	7.57	0.00
Red-tailed Hawk	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	589.75	8.33	0.00
Red-tailed Hawk	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	590.06	8.64	0.00
Red-tailed Hawk	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	590.06	8.64	0.00
Red-tailed Hawk	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	590.12	8.70	0.00
Red-tailed Hawk	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	590.30	8.88	0.00
Red-tailed Hawk	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	590.30	8.88	0.00
Red-tailed Hawk	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	590.30	8.88	0.00
Red-tailed Hawk	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	590.32	8.90	0.00
American Kestrel	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	373.70	0.00	0.24
American Kestrel	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	374.75	1.05	0.14
American Kestrel	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	376.21	2.51	0.07
American Kestrel	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	376.77	3.07	0.05
American Kestrel	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	377.27	3.58	0.04
American Kestrel	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	377.30	3.61	0.04
American Kestrel	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	377.67	3.98	0.03
American Kestrel	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	377.77	4.07	0.03
American Kestrel	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	377.81	4.11	0.03
American Kestrel	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	377.98	4.29	0.03
American Kestrel	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	378.00	4.31	0.03
American Kestrel	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	378.62	4.93	0.02
American Kestrel	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	378.84	5.14	0.02
American Kestrel	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	379.03	5.33	0.02
American Kestrel	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	379.09	5.40	0.02
American Kestrel	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	379.28	5.58	0.01
American Kestrel	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	379.28	5.58	0.01
American Kestrel	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	379.87	6.17	0.01
American Kestrel	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	380.24	6.54	0.01
American Kestrel	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	380.24	6.54	0.01
American Kestrel	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	380.30	6.60	0.01
American Kestrel	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	380.40	6.70	0.01
American Kestrel	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	380.50	6.80	0.01
American Kestrel	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	380.53	6.84	0.01
American Kestrel	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	380.56	6.86	0.01
American Kestrel	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	380.56	6.86	0.01
American Kestrel	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	380.66	6.96	0.01
American Kestrel	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	381.05	7.35	0.01

Species	Model	k	AICc	ΔAICc	Weight
American Kestrel	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	381.13	7.44	0.01
American Kestrel	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	381.35	7.65	0.01
American Kestrel	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	381.35	7.65	0.01
American Kestrel	p(observer) + ψ(1) + γ(1) + ε(1)	12	381.53	7.83	0.00
American Kestrel	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	381.59	7.90	0.00
American Kestrel	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	381.59	7.90	0.00
American Kestrel	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	381.62	7.92	0.00
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	312.97	0.00	0.10
Killdeer	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	313.60	0.63	0.07
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	314.12	1.15	0.06
Killdeer	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	314.16	1.19	0.05
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	314.17	1.19	0.05
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	315.07	2.09	0.03
Killdeer	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	315.30	2.33	0.03
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	315.32	2.35	0.03
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	315.53	2.56	0.03
Killdeer	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	315.63	2.65	0.03
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	315.66	2.69	0.03
Killdeer	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	315.77	2.79	0.02
Killdeer	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	315.84	2.87	0.02
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	316.00	3.03	0.02
Killdeer	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	316.05	3.08	0.02
Killdeer	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	316.09	3.11	0.02
Killdeer	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	316.10	3.13	0.02
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	316.55	3.57	0.02
Killdeer	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	316.59	3.61	0.02
Killdeer	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	316.60	3.63	0.02
Killdeer	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	316.62	3.64	0.02
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	316.63	3.65	0.02
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	317.18	4.21	0.01
Killdeer	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	317.31	4.33	0.01
Killdeer	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	317.42	4.45	0.01
Killdeer	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	317.61	4.63	0.01
Killdeer	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	317.63	4.66	0.01
Killdeer	p(observer) + ψ(1) + γ(1) + ε(1)	12	317.74	4.76	0.01
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	317.94	4.97	0.01
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	317.96	4.98	0.01
Killdeer	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	318.10	5.12	0.01
Killdeer	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	318.16	5.18	0.01
Killdeer	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	318.30	5.33	0.01
Killdeer	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	318.38	5.41	0.01
Killdeer	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	318.41	5.44	0.01
Killdeer	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	318.45	5.48	0.01
Killdeer	p(observer) + ψ(1) + γ(hii) + ε(1)	13	318.50	5.53	0.01
Killdeer	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	318.55	5.58	0.01
Killdeer	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	318.63	5.65	0.01
Killdeer	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	318.67	5.69	0.01
Killdeer	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	318.72	5.75	0.01
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	318.77	5.79	0.01
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	318.86	5.88	0.01

Species	Model	k	AICc	ΔAICc	Weight
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	319.07	6.10	0.00
Killdeer	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	319.10	6.12	0.00
Killdeer	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	319.13	6.15	0.00
Killdeer	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	319.29	6.32	0.00
Killdeer	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	319.36	6.39	0.00
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	319.37	6.39	0.00
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	319.48	6.51	0.00
Killdeer	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	319.53	6.55	0.00
Killdeer	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	319.93	6.95	0.00
Killdeer	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	320.09	7.11	0.00
Killdeer	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	320.12	7.15	0.00
Killdeer	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	320.12	7.15	0.00
Killdeer	p(observer) + ψ(1) + γ(Δprecip) + ε(1)	13	320.13	7.16	0.00
Killdeer	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	320.17	7.19	0.00
Killdeer	p(observer + date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	15	320.27	7.29	0.00
Killdeer	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	320.42	7.44	0.00
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	320.53	7.55	0.00
Killdeer	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	320.58	7.60	0.00
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(1)	6	205.87	0.00	0.10
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	207.09	1.22	0.05
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	207.24	1.37	0.05
Spotted Sandpiper	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	207.28	1.42	0.05
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	207.49	1.62	0.04
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	207.49	1.62	0.04
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	207.74	1.88	0.04
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	207.89	2.03	0.04
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	207.89	2.03	0.04
Spotted Sandpiper	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	207.92	2.05	0.04
Spotted Sandpiper	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	207.98	2.11	0.03
Spotted Sandpiper	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	207.99	2.13	0.03
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	208.77	2.91	0.02
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	209.39	3.52	0.02
Spotted Sandpiper	p(era) + ψ(1) + γ(hii + Δtemp) + ε(1)	7	209.40	3.53	0.02
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	209.44	3.58	0.02
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	209.56	3.69	0.02
Spotted Sandpiper	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	209.57	3.70	0.02
Spotted Sandpiper	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	209.69	3.82	0.01
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	209.81	3.94	0.01
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	209.81	3.94	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	209.84	3.98	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	209.85	3.98	0.01
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	209.88	4.02	0.01
Spotted Sandpiper	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	209.99	4.12	0.01
Spotted Sandpiper	p(date + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	209.99	4.12	0.01
Spotted Sandpiper	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	210.03	4.16	0.01
Spotted Sandpiper	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	210.05	4.18	0.01
Spotted Sandpiper	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	210.06	4.20	0.01
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	210.21	4.35	0.01
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	210.29	4.42	0.01
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(1)	6	210.57	4.70	0.01

Species	Model	k	AICc	ΔAICc	Weight
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	210.75	4.88	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	210.85	4.98	0.01
Spotted Sandpiper	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	211.63	5.76	0.01
Spotted Sandpiper	p(era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	8	211.65	5.78	0.01
Spotted Sandpiper	p(era) + ψ(1) + γ(Δtemp) + ε(1)	6	211.78	5.91	0.01
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	211.82	5.95	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	211.83	5.96	0.01
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	211.89	6.03	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	10	211.90	6.03	0.00
Spotted Sandpiper	p(era) + ψ(1) + γ(1) + ε(1)	5	211.93	6.06	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	211.96	6.09	0.00
Spotted Sandpiper	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	211.98	6.11	0.00
Spotted Sandpiper	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	212.17	6.30	0.00
Spotted Sandpiper	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	212.26	6.39	0.00
Spotted Sandpiper	p(date + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	9	212.28	6.41	0.00
Spotted Sandpiper	p(date + era) + ψ(1) + γ(Δtemp) + ε(1)	7	212.39	6.52	0.00
Spotted Sandpiper	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	212.56	6.69	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	212.59	6.72	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	212.85	6.98	0.00
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	212.94	7.08	0.00
Spotted Sandpiper	p(date + era) + ψ(1) + γ(1) + ε(1)	6	213.37	7.50	0.00
Spotted Sandpiper	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	213.46	7.59	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	213.58	7.71	0.00
Spotted Sandpiper	p(era) + ψ(1) + γ(hii) + ε(1)	6	213.60	7.74	0.00
Band-tailed Pigeon	p(date + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	9	422.58	0.00	0.26
Band-tailed Pigeon	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	424.47	1.89	0.10
Band-tailed Pigeon	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	424.76	2.18	0.09
Band-tailed Pigeon	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	424.82	2.24	0.08
Band-tailed Pigeon	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	10	424.89	2.32	0.08
Band-tailed Pigeon	p(era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	8	425.23	2.65	0.07
Band-tailed Pigeon	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	425.81	3.23	0.05
Band-tailed Pigeon	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	426.76	4.18	0.03
Band-tailed Pigeon	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	427.17	4.59	0.03
Band-tailed Pigeon	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	427.44	4.86	0.02
Band-tailed Pigeon	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	428.20	5.62	0.02
Band-tailed Pigeon	p(date + era) + ψ(1) + γ(hii) + ε(1)	7	428.35	5.77	0.01
Band-tailed Pigeon	p(date + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	428.84	6.26	0.01
Band-tailed Pigeon	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	428.98	6.40	0.01
Band-tailed Pigeon	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	429.01	6.43	0.01
Band-tailed Pigeon	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	429.35	6.77	0.01
Band-tailed Pigeon	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	429.41	6.83	0.01
Band-tailed Pigeon	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	429.77	7.19	0.01
Band-tailed Pigeon	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	430.04	7.46	0.01
Band-tailed Pigeon	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	430.09	7.51	0.01
Band-tailed Pigeon	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	430.29	7.72	0.01
Band-tailed Pigeon	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	430.30	7.72	0.01
Band-tailed Pigeon	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	430.56	7.98	0.00
Band-tailed Pigeon	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	430.75	8.17	0.00
Band-tailed Pigeon	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	430.77	8.19	0.00
Band-tailed Pigeon	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	430.82	8.24	0.00

Species	Model	k	AICc	ΔAICc	Weight
Band-tailed Pigeon	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	430.95	8.37	0.00
Band-tailed Pigeon	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	9	431.10	8.52	0.00
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	555.55	0.00	0.27
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	556.50	0.95	0.17
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	557.59	2.04	0.10
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	557.68	2.14	0.09
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	558.53	2.98	0.06
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	558.60	3.06	0.06
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	559.38	3.83	0.04
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	560.46	4.91	0.02
Mourning Dove	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	560.97	5.42	0.02
Mourning Dove	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	561.13	5.59	0.02
Mourning Dove	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	561.34	5.79	0.01
Mourning Dove	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	561.70	6.15	0.01
Mourning Dove	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	561.94	6.39	0.01
Mourning Dove	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	562.77	7.22	0.01
Mourning Dove	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	562.80	7.25	0.01
Mourning Dove	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	562.85	7.30	0.01
Mourning Dove	p(observer + date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	15	562.91	7.36	0.01
Mourning Dove	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	563.11	7.56	0.01
Mourning Dove	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	563.12	7.57	0.01
Mourning Dove	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	563.48	7.93	0.01
Mourning Dove	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	563.69	8.14	0.00
Mourning Dove	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	563.81	8.26	0.00
Mourning Dove	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	563.81	8.27	0.00
Mourning Dove	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	563.89	8.35	0.00
Mourning Dove	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	564.11	8.56	0.00
Mourning Dove	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	564.20	8.65	0.00
Vaux's Swift	p(1) + ψ(elevation) + γ(Δprecip) + ε(1)	6	158.05	0.00	0.19
Vaux's Swift	p(date) + ψ(elevation) + γ(Δprecip) + ε(1)	7	159.51	1.46	0.09
Vaux's Swift	p(1) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	7	160.26	2.22	0.06
Vaux's Swift	p(1) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	7	160.26	2.22	0.06
Vaux's Swift	p(date) + ψ(elevation) + γ(1) + ε(1)	6	161.06	3.01	0.04
Vaux's Swift	p(1) + ψ(elevation) + γ(hii) + ε(1)	6	161.48	3.43	0.03
Vaux's Swift	p(date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	161.76	3.71	0.03
Vaux's Swift	p(date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	161.76	3.71	0.03
Vaux's Swift	p(era) + ψ(elevation) + γ(1) + ε(1)	6	161.81	3.76	0.03
Vaux's Swift	p(1) + ψ(elevation) + γ(Δtemp) + ε(1)	6	161.82	3.78	0.03
Vaux's Swift	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	162.51	4.47	0.02
Vaux's Swift	p(1) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	8	162.52	4.47	0.02
Vaux's Swift	p(1) + ψ(latitude) + γ(1) + ε(1)	5	162.81	4.76	0.02
Vaux's Swift	p(date) + ψ(elevation) + γ(hii) + ε(1)	7	162.90	4.85	0.02
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	163.24	5.20	0.01
Vaux's Swift	p(date) + ψ(elevation) + γ(Δtemp) + ε(1)	7	163.28	5.23	0.01
Vaux's Swift	p(1) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	7	163.29	5.24	0.01
Vaux's Swift	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	163.55	5.50	0.01
Vaux's Swift	p(date) + ψ(latitude) + γ(Δprecip) + ε(1)	7	163.66	5.61	0.01
Vaux's Swift	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	163.94	5.89	0.01
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	163.96	5.91	0.01
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	163.96	5.91	0.01

Species	Model	k	AICc	ΔAICc	Weight
Vaux's Swift	p(1) + ψ(latitude) + γ(hii) + ε(1)	6	164.01	5.96	0.01
Vaux's Swift	p(date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	164.05	6.00	0.01
Vaux's Swift	p(date) + ψ(latitude) + γ(1) + ε(1)	6	164.07	6.02	0.01
Vaux's Swift	p(date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	164.61	6.56	0.01
Vaux's Swift	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	164.67	6.63	0.01
Vaux's Swift	p(1) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	7	164.68	6.63	0.01
Vaux's Swift	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	164.79	6.74	0.01
Vaux's Swift	p(1) + ψ(latitude) + γ(Δtemp) + ε(1)	6	164.90	6.85	0.01
Vaux's Swift	p(1) + ψ(latitude) + γ(Δprecip) + ε(1)	6	164.98	6.93	0.01
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(hii) + ε(1)	8	164.99	6.94	0.01
Vaux's Swift	p(date) + ψ(latitude) + γ(hii) + ε(1)	7	165.08	7.03	0.01
Vaux's Swift	p(era) + ψ(latitude) + γ(1) + ε(1)	6	165.09	7.04	0.01
Vaux's Swift	p(1) + ψ(1) + γ(Δprecip) + ε(1)	5	165.23	7.18	0.01
Vaux's Swift	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	165.41	7.36	0.00
Vaux's Swift	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	165.44	7.39	0.00
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	8	165.49	7.45	0.00
Vaux's Swift	p(date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	8	165.91	7.86	0.00
Vaux's Swift	p(1) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	7	166.10	8.06	0.00
Vaux's Swift	p(date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	166.13	8.08	0.00
Vaux's Swift	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	166.14	8.09	0.00
Vaux's Swift	p(date) + ψ(latitude) + γ(Δtemp) + ε(1)	7	166.17	8.12	0.00
Vaux's Swift	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	166.26	8.21	0.00
Vaux's Swift	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	166.26	8.22	0.00
Vaux's Swift	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	166.38	8.34	0.00
Vaux's Swift	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	166.41	8.36	0.00
Vaux's Swift	p(date) + ψ(1) + γ(Δprecip) + ε(1)	6	166.60	8.55	0.00
Vaux's Swift	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	166.63	8.59	0.00
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	166.66	8.61	0.00
Vaux's Swift	p(1) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	8	166.67	8.62	0.00
Vaux's Swift	p(date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	166.67	8.62	0.00
Vaux's Swift	p(1) + ψ(1) + γ(1) + ε(1)	4	166.94	8.89	0.00
Vaux's Swift	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	166.97	8.92	0.00
Vaux's Swift	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	167.04	8.99	0.00
Vaux's Swift	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	167.07	9.02	0.00
Vaux's Swift	p(date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	167.12	9.07	0.00
Vaux's Swift	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	167.16	9.11	0.00
Vaux's Swift	p(date + date^2) + ψ(latitude) + γ(hii) + ε(1)	8	167.33	9.28	0.00
Vaux's Swift	p(era) + ψ(1) + γ(Δprecip) + ε(1)	6	167.41	9.37	0.00
Vaux's Swift	p(1) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	6	167.42	9.37	0.00
Vaux's Swift	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	167.69	9.65	0.00
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	144.04	0.00	0.13
White-throated Swift	p(1) + ψ(hPrecip) + γ(1) + ε(1)	5	144.66	0.62	0.09
White-throated Swift	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	145.70	1.65	0.06
White-throated Swift	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	145.72	1.67	0.06
White-throated Swift	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	145.86	1.81	0.05
White-throated Swift	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	146.18	2.13	0.04
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	146.30	2.25	0.04
White-throated Swift	p(1) + ψ(hPrecip) + γ(hii) + ε(1)	6	146.60	2.55	0.04
White-throated Swift	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	146.81	2.77	0.03
White-throated Swift	p(1) + ψ(hPrecip) + γ(Δprecip) + ε(1)	6	146.85	2.80	0.03

Species	Model	k	AICc	ΔAICc	Weight
White-throated Swift	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	146.89	2.84	0.03
White-throated Swift	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	147.37	3.33	0.02
White-throated Swift	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	147.45	3.41	0.02
White-throated Swift	p(date) + ψ(hPrecip) + γ(hii) + ε(1)	7	147.78	3.74	0.02
White-throated Swift	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	147.90	3.85	0.02
White-throated Swift	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	147.93	3.88	0.02
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	147.93	3.88	0.02
White-throated Swift	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	147.93	3.89	0.02
White-throated Swift	p(date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	147.94	3.89	0.02
White-throated Swift	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	147.98	3.94	0.02
White-throated Swift	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	148.46	4.42	0.01
White-throated Swift	p(1) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	7	148.71	4.66	0.01
White-throated Swift	p(1) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	7	148.80	4.75	0.01
White-throated Swift	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	149.40	5.36	0.01
White-throated Swift	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	149.40	5.36	0.01
White-throated Swift	p(1) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	8	149.49	5.45	0.01
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	149.58	5.53	0.01
White-throated Swift	p(era) + ψ(latitude) + γ(1) + ε(1)	6	149.82	5.77	0.01
White-throated Swift	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	149.85	5.81	0.01
White-throated Swift	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	149.88	5.84	0.01
White-throated Swift	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	149.95	5.90	0.01
White-throated Swift	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	149.96	5.92	0.01
White-throated Swift	p(date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	150.01	5.97	0.01
White-throated Swift	p(date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	8	150.03	5.98	0.01
White-throated Swift	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	150.15	6.10	0.01
White-throated Swift	p(date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	150.18	6.14	0.01
White-throated Swift	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	150.26	6.22	0.01
White-throated Swift	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	150.30	6.26	0.01
White-throated Swift	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	150.48	6.43	0.01
White-throated Swift	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	150.48	6.43	0.01
White-throated Swift	p(date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	150.99	6.94	0.00
White-throated Swift	p(1) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	9	151.03	6.98	0.00
White-throated Swift	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	151.53	7.48	0.00
White-throated Swift	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	151.55	7.50	0.00
White-throated Swift	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	151.55	7.51	0.00
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	462.43	0.00	0.32
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	463.46	1.04	0.19
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	463.72	1.29	0.17
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	464.84	2.41	0.09
Anna's Hummingbird	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	466.42	3.99	0.04
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	466.77	4.34	0.04
Anna's Hummingbird	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	467.59	5.16	0.02
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	467.93	5.50	0.02
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	468.14	5.71	0.02
Anna's Hummingbird	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	468.18	5.75	0.02
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	468.22	5.79	0.02
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	469.38	6.95	0.01
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	469.44	7.01	0.01
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	450.81	0.00	0.18
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	452.01	1.20	0.10

Species	Model	k	AICc	ΔAICc	Weight
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	452.37	1.56	0.08
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	452.71	1.90	0.07
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	452.98	2.17	0.06
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	453.10	2.29	0.06
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	453.45	2.64	0.05
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	454.08	3.27	0.04
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	454.51	3.70	0.03
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	455.05	4.24	0.02
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	455.07	4.26	0.02
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	455.12	4.31	0.02
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	455.26	4.45	0.02
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	455.50	4.69	0.02
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	455.63	4.82	0.02
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	455.65	4.84	0.02
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	456.56	5.75	0.01
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	456.60	5.79	0.01
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	456.75	5.94	0.01
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	15	456.86	6.05	0.01
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	456.94	6.13	0.01
Allen's Hummingbird	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	456.99	6.18	0.01
Allen's Hummingbird	p(observer + date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	15	457.15	6.34	0.01
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	457.42	6.61	0.01
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	457.52	6.71	0.01
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	457.58	6.77	0.01
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	457.76	6.95	0.01
Allen's Hummingbird	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	457.97	7.16	0.01
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	458.17	7.36	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	458.65	7.84	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	458.69	7.88	0.00
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	458.84	8.03	0.00
Allen's Hummingbird	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	458.88	8.07	0.00
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	458.96	8.15	0.00
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	459.01	8.20	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	459.06	8.25	0.00
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	459.10	8.29	0.00
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	16	459.21	8.40	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	459.24	8.44	0.00
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	459.29	8.48	0.00
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	459.45	8.64	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	459.69	8.88	0.00
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	256.36	0.00	0.16
Belted Kingfisher	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	256.88	0.52	0.12
Belted Kingfisher	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	257.02	0.66	0.12
Belted Kingfisher	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	257.22	0.86	0.10
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(1)	6	257.83	1.47	0.08
Belted Kingfisher	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	258.12	1.76	0.07
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	258.62	2.26	0.05
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	258.65	2.29	0.05
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	259.06	2.70	0.04
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	259.78	3.42	0.03

Species	Model	k	AICc	ΔAICc	Weight
Belted Kingfisher	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	259.79	3.43	0.03
Belted Kingfisher	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	260.04	3.68	0.03
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	260.16	3.80	0.02
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	260.94	4.58	0.02
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	261.35	4.99	0.01
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	261.77	5.41	0.01
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	262.01	5.64	0.01
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	470.58	0.00	0.22
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	471.60	1.01	0.13
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	472.00	1.41	0.11
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	472.50	1.92	0.08
Acorn Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	472.64	2.06	0.08
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	473.55	2.97	0.05
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	473.70	3.12	0.05
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	473.90	3.31	0.04
Acorn Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	474.10	3.52	0.04
Acorn Woodpecker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	474.24	3.65	0.04
Acorn Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	474.59	4.01	0.03
Acorn Woodpecker	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	475.25	4.67	0.02
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	475.63	5.05	0.02
Acorn Woodpecker	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	475.73	5.15	0.02
Acorn Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	476.05	5.46	0.01
Acorn Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	476.38	5.80	0.01
Acorn Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	476.38	5.80	0.01
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	151.26	0.00	0.48
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	151.94	0.67	0.35
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	157.17	5.90	0.03
Red-breasted Sapsucker	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	157.63	6.36	0.02
Red-breasted Sapsucker	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	157.67	6.40	0.02
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	158.00	6.74	0.02
Red-breasted Sapsucker	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	158.69	7.43	0.01
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	159.53	8.26	0.01
Red-breasted Sapsucker	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	160.10	8.83	0.01
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	160.42	9.15	0.00
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	160.44	9.18	0.00
Red-breasted Sapsucker	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	160.53	9.27	0.00
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	335.32	0.00	0.35
Nuttall's Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	336.88	1.56	0.16
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	336.94	1.63	0.15
Nuttall's Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	338.63	3.32	0.07
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	339.09	3.77	0.05
Nuttall's Woodpecker	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	339.13	3.81	0.05
Nuttall's Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	340.38	5.06	0.03
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	340.84	5.52	0.02
Nuttall's Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	341.30	5.98	0.02
Nuttall's Woodpecker	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	341.51	6.19	0.02
Nuttall's Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	341.57	6.25	0.02
Nuttall's Woodpecker	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	341.59	6.27	0.02
Nuttall's Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	341.72	6.40	0.01
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(1)	6	421.20	0.00	0.17

Species	Model	k	AICc	ΔAICc	Weight
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	421.32	0.12	0.16
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	423.15	1.95	0.07
Downy Woodpecker	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	423.41	2.22	0.06
Downy Woodpecker	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	423.41	2.22	0.06
Downy Woodpecker	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	423.41	2.22	0.06
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	423.57	2.38	0.05
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	423.57	2.38	0.05
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	423.57	2.38	0.05
Downy Woodpecker	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	424.15	2.96	0.04
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	425.43	4.24	0.02
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	425.43	4.24	0.02
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	425.43	4.24	0.02
Downy Woodpecker	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	425.67	4.47	0.02
Downy Woodpecker	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	425.67	4.47	0.02
Downy Woodpecker	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	425.67	4.47	0.02
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	425.86	4.66	0.02
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	425.86	4.66	0.02
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	425.86	4.66	0.02
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	427.76	6.56	0.01
Hairy Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	636.62	0.00	0.17
Hairy Woodpecker	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	637.87	1.26	0.09
Hairy Woodpecker	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	638.25	1.64	0.07
Hairy Woodpecker	p(observer) + ψ(1) + γ(1) + ε(1)	12	638.38	1.77	0.07
Hairy Woodpecker	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	638.71	2.10	0.06
Hairy Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	638.98	2.37	0.05
Hairy Woodpecker	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	639.12	2.50	0.05
Hairy Woodpecker	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	639.40	2.78	0.04
Hairy Woodpecker	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	639.51	2.90	0.04
Hairy Woodpecker	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	639.72	3.10	0.04
Hairy Woodpecker	p(observer + date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	15	639.85	3.23	0.03
Hairy Woodpecker	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	639.98	3.37	0.03
Hairy Woodpecker	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	640.20	3.59	0.03
Hairy Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	640.23	3.61	0.03
Hairy Woodpecker	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	640.35	3.73	0.03
Hairy Woodpecker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	640.78	4.16	0.02
Hairy Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	641.04	4.43	0.02
Hairy Woodpecker	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	641.05	4.44	0.02
Hairy Woodpecker	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	641.32	4.71	0.02
Hairy Woodpecker	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	641.42	4.80	0.02
Hairy Woodpecker	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	641.45	4.84	0.01
Hairy Woodpecker	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	641.93	5.31	0.01
Hairy Woodpecker	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	642.33	5.72	0.01
Hairy Woodpecker	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	642.34	5.73	0.01
Hairy Woodpecker	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	642.60	5.99	0.01
Northern Flicker	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	604.11	0.00	0.16
Northern Flicker	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	604.48	0.37	0.14
Northern Flicker	p(observer) + ψ(1) + γ(1) + ε(1)	12	605.13	1.03	0.10
Northern Flicker	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	605.16	1.05	0.10
Northern Flicker	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	606.58	2.47	0.05
Northern Flicker	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	606.99	2.88	0.04

Species	Model	k	AICc	ΔAICc	Weight
Northern Flicker	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	606.99	2.88	0.04
Northern Flicker	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	607.15	3.04	0.04
Northern Flicker	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	607.17	3.06	0.04
Northern Flicker	p(observer) + ψ(1) + γ(hii) + ε(1)	13	607.37	3.26	0.03
Northern Flicker	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	607.42	3.31	0.03
Northern Flicker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	607.44	3.33	0.03
Northern Flicker	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	607.44	3.33	0.03
Northern Flicker	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	607.54	3.43	0.03
Northern Flicker	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	607.56	3.45	0.03
Northern Flicker	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	607.62	3.51	0.03
Northern Flicker	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	608.17	4.06	0.02
Northern Flicker	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	609.54	5.43	0.01
Northern Flicker	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	609.64	5.53	0.01
Northern Flicker	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	609.79	5.68	0.01
Pileated Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	311.41	0.00	0.22
Pileated Woodpecker	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	312.02	0.61	0.16
Pileated Woodpecker	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	313.48	2.07	0.08
Pileated Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	313.55	2.14	0.07
Pileated Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	313.57	2.17	0.07
Pileated Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	313.86	2.45	0.06
Pileated Woodpecker	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	314.14	2.73	0.06
Pileated Woodpecker	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	314.23	2.82	0.05
Pileated Woodpecker	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	315.65	4.24	0.03
Pileated Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	315.72	4.32	0.03
Pileated Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	315.93	4.52	0.02
Pileated Woodpecker	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	316.22	4.82	0.02
Pileated Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	317.78	6.37	0.01
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	317.87	6.47	0.01
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	317.88	6.47	0.01
Pileated Woodpecker	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	318.50	7.09	0.01
Pileated Woodpecker	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	318.55	7.14	0.01
Pileated Woodpecker	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	318.58	7.17	0.01
Pileated Woodpecker	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	318.61	7.20	0.01
Pileated Woodpecker	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	319.07	7.67	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	319.18	7.77	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	319.47	8.06	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	319.50	8.09	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	319.58	8.17	0.00
Pileated Woodpecker	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	319.66	8.26	0.00
Pileated Woodpecker	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	319.84	8.44	0.00
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	406.10	0.00	0.74
Olive-sided Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	409.55	3.45	0.13
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	411.26	5.15	0.06
Olive-sided Flycatcher	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	411.55	5.45	0.05
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	592.44	0.00	0.31
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	593.03	0.59	0.23
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	594.63	2.19	0.11
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	594.87	2.43	0.09
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	595.27	2.83	0.08
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	595.42	2.98	0.07

Species	Model	k	AICc	ΔAICc	Weight
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	596.81	4.37	0.04
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	597.43	4.99	0.03
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	159.00	0.00	0.20
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	159.56	0.55	0.15
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	160.34	1.34	0.10
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	160.93	1.93	0.08
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	161.16	2.16	0.07
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	161.24	2.24	0.07
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	161.73	2.73	0.05
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	162.54	3.54	0.03
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	162.60	3.60	0.03
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	163.16	4.15	0.03
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	163.44	4.44	0.02
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	163.96	4.96	0.02
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	164.83	5.83	0.01
Hammond's Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	164.91	5.90	0.01
Hammond's Flycatcher	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	165.02	6.02	0.01
Hammond's Flycatcher	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	165.03	6.03	0.01
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	165.34	6.34	0.01
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	166.21	7.21	0.01
Hammond's Flycatcher	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	166.26	7.26	0.01
Hammond's Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	166.38	7.38	0.01
Hammond's Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	166.42	7.42	0.00
Hammond's Flycatcher	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	166.83	7.82	0.00
Hammond's Flycatcher	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	167.13	8.12	0.00
Hammond's Flycatcher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	167.20	8.19	0.00
Hammond's Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	167.21	8.21	0.00
Hammond's Flycatcher	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	167.24	8.24	0.00
Dusky Flycatcher	p(1) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	8	181.52	0.00	0.13
Dusky Flycatcher	p(date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	183.14	1.62	0.06
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	183.17	1.65	0.06
Dusky Flycatcher	p(1) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	9	183.30	1.78	0.05
Dusky Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	183.55	2.03	0.05
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	183.87	2.35	0.04
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(Δtemp) + ε(1)	6	184.27	2.75	0.03
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	184.28	2.76	0.03
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	184.62	3.11	0.03
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(hii) + ε(1)	6	184.77	3.26	0.03
Dusky Flycatcher	p(date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	184.93	3.41	0.02
Dusky Flycatcher	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	185.01	3.49	0.02
Dusky Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	185.15	3.63	0.02
Dusky Flycatcher	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	185.30	3.79	0.02
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	185.36	3.84	0.02
Dusky Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	185.40	3.88	0.02
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	185.78	4.26	0.02
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	185.82	4.30	0.02
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	8	185.86	4.34	0.01
Dusky Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	185.96	4.44	0.01
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	7	186.04	4.52	0.01
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	186.08	4.56	0.01

Species	Model	k	AICc	ΔAICc	Weight
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(hii) + ε(1)	7	186.25	4.74	0.01
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	186.38	4.86	0.01
Dusky Flycatcher	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	186.46	4.94	0.01
Dusky Flycatcher	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	186.48	4.96	0.01
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	186.53	5.01	0.01
Dusky Flycatcher	p(1) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	7	186.74	5.22	0.01
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	186.77	5.26	0.01
Dusky Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	186.92	5.40	0.01
Dusky Flycatcher	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	186.96	5.44	0.01
Dusky Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	187.01	5.49	0.01
Dusky Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	187.05	5.53	0.01
Dusky Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	187.15	5.64	0.01
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	187.17	5.65	0.01
Dusky Flycatcher	p(1) + ψ(elevation) + γ(Δprecip) + ε(1)	6	187.58	6.07	0.01
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	187.61	6.09	0.01
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	187.64	6.12	0.01
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	188.03	6.51	0.01
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	188.03	6.51	0.01
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	188.04	6.52	0.01
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	188.14	6.62	0.00
Dusky Flycatcher	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	188.23	6.71	0.00
Dusky Flycatcher	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	188.27	6.75	0.00
Dusky Flycatcher	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	188.39	6.87	0.00
Dusky Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	188.42	6.90	0.00
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	188.45	6.93	0.00
Dusky Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	188.62	7.10	0.00
Dusky Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	188.63	7.11	0.00
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	188.67	7.15	0.00
Dusky Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	188.80	7.28	0.00
Dusky Flycatcher	p(date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	8	188.88	7.36	0.00
Dusky Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	188.94	7.42	0.00
Dusky Flycatcher	p(1) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	7	189.01	7.50	0.00
Dusky Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	189.06	7.55	0.00
Dusky Flycatcher	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	189.07	7.56	0.00
Dusky Flycatcher	p(1) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	7	189.14	7.62	0.00
Dusky Flycatcher	p(date) + ψ(elevation) + γ(Δprecip) + ε(1)	7	189.18	7.66	0.00
Dusky Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	189.25	7.73	0.00
Dusky Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	189.45	7.93	0.00
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	189.49	7.97	0.00
Dusky Flycatcher	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	189.60	8.09	0.00
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	189.86	8.34	0.00
Dusky Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	189.94	8.42	0.00
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	515.02	0.00	0.17
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	515.45	0.42	0.13
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	516.88	1.86	0.07
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	516.95	1.93	0.06
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	516.95	1.93	0.06
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	517.32	2.29	0.05
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	517.38	2.36	0.05
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	517.86	2.84	0.04

Species	Model	k	AICc	ΔAICc	Weight
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	518.80	3.78	0.02
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	518.87	3.85	0.02
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	519.09	4.07	0.02
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	519.18	4.16	0.02
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	519.23	4.20	0.02
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	519.46	4.44	0.02
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	519.76	4.73	0.02
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	519.81	4.78	0.02
Pacific-slope Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	520.14	5.12	0.01
Pacific-slope Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	520.69	5.67	0.01
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	521.06	6.04	0.01
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	521.18	6.16	0.01
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	521.28	6.26	0.01
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	521.35	6.33	0.01
Pacific-slope Flycatcher	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	521.40	6.37	0.01
Pacific-slope Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	521.47	6.45	0.01
Pacific-slope Flycatcher	p(observer) + ψ(1) + γ(Δprecip) + ε(1)	13	521.48	6.46	0.01
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	521.56	6.53	0.01
Pacific-slope Flycatcher	p(observer) + ψ(1) + γ(1) + ε(1)	12	521.75	6.73	0.01
Pacific-slope Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	521.81	6.79	0.01
Pacific-slope Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	521.97	6.95	0.01
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	522.22	7.20	0.00
Pacific-slope Flycatcher	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	522.23	7.21	0.00
Pacific-slope Flycatcher	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	522.28	7.26	0.00
Pacific-slope Flycatcher	p(observer) + ψ(1) + γ(hii + Δprecip) + ε(1)	14	522.31	7.29	0.00
Pacific-slope Flycatcher	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	522.55	7.52	0.00
Pacific-slope Flycatcher	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	522.59	7.57	0.00
Pacific-slope Flycatcher	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	522.62	7.60	0.00
Pacific-slope Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	522.70	7.68	0.00
Pacific-slope Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	522.88	7.86	0.00
Pacific-slope Flycatcher	p(observer) + ψ(1) + γ(hii) + ε(1)	13	522.93	7.90	0.00
Pacific-slope Flycatcher	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	523.15	8.12	0.00
Pacific-slope Flycatcher	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	523.28	8.26	0.00
Pacific-slope Flycatcher	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	523.30	8.28	0.00
Pacific-slope Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	523.34	8.32	0.00
Pacific-slope Flycatcher	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	523.45	8.42	0.00
Pacific-slope Flycatcher	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	523.47	8.45	0.00
Pacific-slope Flycatcher	p(observer + date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	15	523.47	8.45	0.00
Pacific-slope Flycatcher	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	523.47	8.45	0.00
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	523.52	8.50	0.00
Black Phoebe	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	470.76	0.00	0.24
Black Phoebe	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	472.09	1.33	0.12
Black Phoebe	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	472.38	1.62	0.11
Black Phoebe	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	472.88	2.12	0.08
Black Phoebe	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	473.66	2.90	0.06
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	473.70	2.94	0.05
Black Phoebe	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	474.04	3.28	0.05
Black Phoebe	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	474.64	3.88	0.03
Black Phoebe	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	474.85	4.09	0.03
Black Phoebe	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	475.04	4.28	0.03

Species	Model	k	AICc	ΔAICc	Weight
Black Phoebe	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	475.75	4.99	0.02
Black Phoebe	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	476.17	5.41	0.02
Black Phoebe	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	476.17	5.41	0.02
Black Phoebe	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	476.17	5.41	0.02
Black Phoebe	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	476.17	5.41	0.02
Black Phoebe	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	476.77	6.00	0.01
Black Phoebe	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	476.88	6.12	0.01
Black Phoebe	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	477.27	6.51	0.01
Black Phoebe	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	477.55	6.79	0.01
Black Phoebe	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	477.55	6.79	0.01
Black Phoebe	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	477.55	6.79	0.01
Black Phoebe	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	477.56	6.80	0.01
Black Phoebe	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	478.08	7.32	0.01
Black Phoebe	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	478.14	7.38	0.01
Ash-throated Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	408.98	0.00	0.30
Ash-throated Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	409.71	0.73	0.21
Ash-throated Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	411.30	2.32	0.09
Ash-throated Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	411.48	2.50	0.08
Ash-throated Flycatcher	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	411.49	2.51	0.08
Ash-throated Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	411.98	3.00	0.07
Ash-throated Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	412.25	3.27	0.06
Ash-throated Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	413.38	4.41	0.03
Ash-throated Flycatcher	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	413.70	4.72	0.03
Ash-throated Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	414.03	5.05	0.02
Western Kingbird	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	289.71	0.00	0.19
Western Kingbird	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	289.99	0.28	0.17
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	291.94	2.23	0.06
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	292.10	2.39	0.06
Western Kingbird	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	292.24	2.54	0.05
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	292.25	2.55	0.05
Western Kingbird	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	292.50	2.79	0.05
Western Kingbird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	293.16	3.46	0.03
Western Kingbird	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	293.17	3.47	0.03
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	293.39	3.68	0.03
Western Kingbird	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	294.04	4.33	0.02
Western Kingbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	294.56	4.85	0.02
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	294.57	4.87	0.02
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	294.69	4.98	0.02
Western Kingbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	294.78	5.08	0.02
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	294.80	5.09	0.02
Western Kingbird	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	294.81	5.11	0.02
Western Kingbird	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	294.93	5.23	0.01
Western Kingbird	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	295.61	5.91	0.01
Western Kingbird	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	295.65	5.94	0.01
Western Kingbird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	295.66	5.95	0.01
Western Kingbird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	295.67	5.97	0.01
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	295.87	6.16	0.01
Western Kingbird	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	296.39	6.68	0.01
Western Kingbird	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	296.56	6.86	0.01
Western Kingbird	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	297.13	7.43	0.00

Species	Model	k	AICc	ΔAICc	Weight
Western Kingbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	297.24	7.53	0.00
Western Kingbird	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	297.26	7.56	0.00
Loggerhead Shrike	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	121.01	0.00	0.26
Loggerhead Shrike	p(1) + ψ(hPrecip) + γ(1) + ε(1)	5	122.15	1.14	0.15
Loggerhead Shrike	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	123.16	2.16	0.09
Loggerhead Shrike	p(1) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	7	123.23	2.22	0.09
Loggerhead Shrike	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	124.21	3.20	0.05
Loggerhead Shrike	p(1) + ψ(hPrecip) + γ(Δprecip) + ε(1)	6	124.33	3.32	0.05
Loggerhead Shrike	p(1) + ψ(hPrecip) + γ(hii) + ε(1)	6	124.33	3.32	0.05
Loggerhead Shrike	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	124.82	3.81	0.04
Loggerhead Shrike	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	125.41	4.41	0.03
Loggerhead Shrike	p(1) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	8	125.48	4.47	0.03
Loggerhead Shrike	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	126.25	5.24	0.02
Loggerhead Shrike	p(date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	126.43	5.42	0.02
Loggerhead Shrike	p(date) + ψ(hPrecip) + γ(hii) + ε(1)	7	126.43	5.42	0.02
Loggerhead Shrike	p(1) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	7	126.55	5.54	0.02
Loggerhead Shrike	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	127.11	6.10	0.01
Loggerhead Shrike	p(date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	127.70	6.69	0.01
Loggerhead Shrike	p(1) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	9	127.76	6.75	0.01
Loggerhead Shrike	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	128.07	7.06	0.01
Loggerhead Shrike	p(date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	128.50	7.50	0.01
Loggerhead Shrike	p(date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	8	128.50	7.50	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	516.43	0.00	0.15
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	516.87	0.43	0.12
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	518.41	1.98	0.05
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	518.71	2.27	0.05
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	518.71	2.28	0.05
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	518.71	2.28	0.05
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	518.99	2.55	0.04
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	519.09	2.66	0.04
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	519.68	3.24	0.03
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	520.45	4.02	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	520.56	4.13	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	520.66	4.22	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	520.66	4.23	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	520.73	4.29	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	520.73	4.29	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	520.97	4.54	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	521.00	4.57	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	521.10	4.66	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	521.18	4.75	0.01
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	521.34	4.91	0.01
Cassin's Vireo	p(era) + ψ(latitude) + γ(1) + ε(1)	6	521.82	5.39	0.01
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	521.92	5.48	0.01
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	521.93	5.49	0.01
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	522.00	5.57	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	522.23	5.80	0.01
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	522.47	6.03	0.01
Cassin's Vireo	p(era) + ψ(elevation) + γ(1) + ε(1)	6	522.61	6.18	0.01
Cassin's Vireo	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	522.67	6.24	0.01

Species	Model	k	AICc	ΔAICc	Weight
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	522.69	6.25	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	522.82	6.39	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	522.87	6.44	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	522.89	6.46	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	522.89	6.46	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	522.90	6.46	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	522.92	6.48	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	523.08	6.65	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	523.24	6.81	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	523.34	6.91	0.00
Cassin's Vireo	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	523.47	7.04	0.00
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	523.49	7.06	0.00
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	523.59	7.16	0.00
Cassin's Vireo	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	523.79	7.36	0.00
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	523.86	7.42	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	524.03	7.59	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	524.03	7.59	0.00
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	524.19	7.76	0.00
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	524.20	7.77	0.00
Cassin's Vireo	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	524.25	7.81	0.00
Cassin's Vireo	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	524.44	8.01	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	524.50	8.06	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	524.51	8.07	0.00
Cassin's Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	524.52	8.09	0.00
Cassin's Vireo	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	524.61	8.18	0.00
Cassin's Vireo	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	524.64	8.21	0.00
Cassin's Vireo	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	524.67	8.24	0.00
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	524.69	8.26	0.00
Cassin's Vireo	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	524.78	8.35	0.00
Cassin's Vireo	p(date + era) + ψ(1) + γ(1) + ε(1)	6	524.83	8.39	0.00
Cassin's Vireo	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	524.83	8.40	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	9	525.09	8.65	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	9	525.10	8.66	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	9	525.12	8.68	0.00
Cassin's Vireo	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	525.16	8.73	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	525.17	8.73	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	525.46	9.02	0.00
Cassin's Vireo	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	525.52	9.09	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	525.52	9.09	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	525.56	9.12	0.00
Hutton's Vireo	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	525.84	0.00	0.32
Hutton's Vireo	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	526.84	1.00	0.19
Hutton's Vireo	p(era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	8	527.54	1.70	0.14
Hutton's Vireo	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	527.88	2.04	0.11
Hutton's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	530.20	4.36	0.04
Hutton's Vireo	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	530.24	4.40	0.04
Hutton's Vireo	p(era) + ψ(1) + γ(hii + Δtemp) + ε(1)	7	531.16	5.32	0.02
Hutton's Vireo	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	10	532.01	6.17	0.01
Hutton's Vireo	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	532.39	6.56	0.01
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(1)	6	533.08	7.24	0.01

Species	Model	k	AICc	ΔAICc	Weight
Hutton's Vireo	p(date + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	533.40	7.57	0.01
Hutton's Vireo	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	533.82	7.98	0.01
Hutton's Vireo	p(era) + ψ(1) + γ(hii + Δprecip) + ε(1)	7	533.92	8.08	0.01
Hutton's Vireo	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	534.16	8.32	0.00
Hutton's Vireo	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	534.18	8.35	0.00
Hutton's Vireo	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	534.48	8.64	0.00
Hutton's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	535.07	9.23	0.00
Hutton's Vireo	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	535.09	9.25	0.00
Hutton's Vireo	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	535.12	9.28	0.00
Hutton's Vireo	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	535.18	9.34	0.00
Hutton's Vireo	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	535.27	9.43	0.00
Hutton's Vireo	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	535.45	9.62	0.00
Hutton's Vireo	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	535.64	9.80	0.00
Hutton's Vireo	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	9	535.68	9.84	0.00
Hutton's Vireo	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	535.73	9.90	0.00
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	552.18	0.00	0.22
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	552.88	0.70	0.16
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	554.60	2.42	0.07
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	554.69	2.51	0.06
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	555.42	3.24	0.04
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	555.77	3.59	0.04
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	556.72	4.54	0.02
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	556.84	4.66	0.02
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	557.16	4.98	0.02
Warbling Vireo	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	557.19	5.01	0.02
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	557.38	5.20	0.02
Warbling Vireo	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	557.53	5.35	0.02
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	557.63	5.45	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	557.94	5.76	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	15	558.01	5.83	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	558.10	5.92	0.01
Warbling Vireo	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	558.20	6.02	0.01
Warbling Vireo	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	558.34	6.16	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(hii + Δtemp) + ε(1)	15	558.43	6.25	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	558.66	6.48	0.01
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	558.67	6.49	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	16	558.83	6.65	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	558.87	6.68	0.01
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	558.95	6.77	0.01
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	558.97	6.79	0.01
Warbling Vireo	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	559.03	6.85	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	559.07	6.89	0.01
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	559.10	6.92	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	15	559.23	7.05	0.01
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	559.29	7.11	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	559.42	7.24	0.01
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	559.66	7.48	0.01
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	559.69	7.51	0.01
Warbling Vireo	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	559.87	7.69	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	559.87	7.69	0.00

Species	Model	k	AICc	ΔAICc	Weight
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	559.91	7.73	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	15	559.96	7.78	0.00
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	559.98	7.80	0.00
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	559.98	7.80	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	560.02	7.84	0.00
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	560.11	7.93	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	560.32	8.14	0.00
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	560.45	8.27	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	17	560.45	8.27	0.00
Warbling Vireo	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	560.54	8.36	0.00
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	560.55	8.37	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	560.59	8.41	0.00
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	560.82	8.64	0.00
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	560.88	8.70	0.00
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	560.97	8.79	0.00
Steller's Jay	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	464.52	0.00	0.16
Steller's Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	464.78	0.26	0.15
Steller's Jay	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	466.69	2.16	0.06
Steller's Jay	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	466.71	2.19	0.06
Steller's Jay	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	466.75	2.23	0.05
Steller's Jay	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	466.77	2.25	0.05
Steller's Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	466.95	2.43	0.05
Steller's Jay	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	466.99	2.47	0.05
Steller's Jay	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	467.28	2.75	0.04
Steller's Jay	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	468.44	3.92	0.02
Steller's Jay	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	468.69	4.17	0.02
Steller's Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	468.71	4.19	0.02
Steller's Jay	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	468.74	4.22	0.02
Steller's Jay	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	468.89	4.37	0.02
Steller's Jay	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	468.90	4.38	0.02
Steller's Jay	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	468.97	4.45	0.02
Steller's Jay	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	469.00	4.48	0.02
Steller's Jay	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	469.00	4.48	0.02
Steller's Jay	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	469.22	4.70	0.02
Steller's Jay	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	469.28	4.76	0.02
Steller's Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	469.49	4.97	0.01
Steller's Jay	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	470.22	5.70	0.01
Steller's Jay	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	470.73	6.20	0.01
Steller's Jay	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	470.94	6.42	0.01
Steller's Jay	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	470.94	6.42	0.01
Steller's Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	470.96	6.44	0.01
Steller's Jay	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	470.99	6.47	0.01
Steller's Jay	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	471.04	6.52	0.01
Steller's Jay	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	471.14	6.62	0.01
Steller's Jay	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	471.17	6.65	0.01
Steller's Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	471.28	6.75	0.01
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	475.45	0.00	0.14
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	475.94	0.49	0.11
Western Scrub-Jay	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	476.01	0.57	0.10
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	476.77	1.32	0.07

Species	Model	k	AICc	ΔAICc	Weight
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	477.20	1.76	0.06
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	477.46	2.02	0.05
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	477.56	2.12	0.05
Western Scrub-Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	477.87	2.43	0.04
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	477.99	2.55	0.04
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	478.09	2.64	0.04
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	478.09	2.65	0.04
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	478.29	2.84	0.03
Western Scrub-Jay	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	478.48	3.04	0.03
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	478.67	3.22	0.03
Western Scrub-Jay	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	479.04	3.60	0.02
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	479.66	4.22	0.02
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	479.76	4.31	0.02
Western Scrub-Jay	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	480.45	5.00	0.01
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	480.55	5.11	0.01
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	480.55	5.11	0.01
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	18	480.77	5.33	0.01
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	480.96	5.51	0.01
Western Scrub-Jay	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	480.96	5.51	0.01
Western Scrub-Jay	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	481.02	5.57	0.01
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	481.35	5.91	0.01
American Crow	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	409.84	0.00	0.37
American Crow	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	412.35	2.51	0.11
American Crow	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	412.36	2.51	0.11
American Crow	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	413.00	3.15	0.08
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	413.15	3.31	0.07
American Crow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	414.24	4.40	0.04
American Crow	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	414.83	4.99	0.03
American Crow	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	414.90	5.06	0.03
American Crow	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	415.33	5.49	0.02
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	415.75	5.90	0.02
American Crow	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	416.33	6.48	0.01
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	416.58	6.74	0.01
American Crow	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	417.19	7.34	0.01
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	417.72	7.88	0.01
American Crow	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	417.81	7.96	0.01
American Crow	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	418.06	8.22	0.01
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	418.44	8.59	0.01
American Crow	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	418.46	8.62	0.01
American Crow	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	418.57	8.73	0.00
Common Raven	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	370.87	0.00	0.12
Common Raven	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	371.83	0.96	0.07
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(1)	6	372.33	1.45	0.06
Common Raven	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	372.61	1.74	0.05
Common Raven	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	372.74	1.87	0.05
Common Raven	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	373.11	2.23	0.04
Common Raven	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	373.33	2.46	0.03
Common Raven	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	373.48	2.61	0.03
Common Raven	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	373.50	2.63	0.03
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	374.08	3.20	0.02

Species	Model	k	AICc	ΔAICc	Weight
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	374.26	3.39	0.02
Common Raven	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	374.29	3.42	0.02
Common Raven	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	374.35	3.47	0.02
Common Raven	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	374.36	3.48	0.02
Common Raven	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	374.41	3.54	0.02
Common Raven	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	374.56	3.68	0.02
Common Raven	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	374.72	3.84	0.02
Common Raven	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	374.89	4.01	0.02
Common Raven	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	374.92	4.05	0.02
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	375.14	4.27	0.01
Common Raven	p(era) + ψ(1) + γ(Δprecip) + ε(1)	6	375.20	4.33	0.01
Common Raven	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	375.23	4.36	0.01
Common Raven	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	375.47	4.60	0.01
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	375.68	4.81	0.01
Common Raven	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	375.82	4.95	0.01
Common Raven	p(era) + ψ(latitude) + γ(1) + ε(1)	6	375.85	4.97	0.01
Common Raven	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	375.93	5.06	0.01
Common Raven	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	375.98	5.11	0.01
Common Raven	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	376.06	5.18	0.01
Common Raven	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	376.12	5.24	0.01
Common Raven	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	376.18	5.30	0.01
Common Raven	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	376.18	5.31	0.01
Common Raven	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	376.20	5.33	0.01
Common Raven	p(era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	7	376.40	5.52	0.01
Common Raven	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	376.41	5.54	0.01
Common Raven	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	376.46	5.59	0.01
Common Raven	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	376.49	5.62	0.01
Common Raven	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	376.50	5.63	0.01
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	376.58	5.70	0.01
Common Raven	p(era) + ψ(1) + γ(1) + ε(1)	5	376.61	5.74	0.01
Common Raven	p(date + era) + ψ(1) + γ(Δprecip) + ε(1)	7	376.73	5.85	0.01
Common Raven	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	376.77	5.89	0.01
Common Raven	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	376.87	6.00	0.01
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	376.97	6.10	0.01
Common Raven	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	377.20	6.33	0.00
Common Raven	p(era) + ψ(1) + γ(hii + Δprecip) + ε(1)	7	377.32	6.45	0.00
Common Raven	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	377.37	6.50	0.00
Common Raven	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	377.51	6.64	0.00
Common Raven	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	377.60	6.73	0.00
Common Raven	p(era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	8	377.73	6.86	0.00
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	377.75	6.88	0.00
Common Raven	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	377.75	6.88	0.00
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	377.84	6.97	0.00
Common Raven	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	377.85	6.98	0.00
Common Raven	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	377.89	7.01	0.00
Common Raven	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	377.89	7.02	0.00
Common Raven	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	378.00	7.12	0.00
Common Raven	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	378.02	7.15	0.00
Common Raven	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	378.15	7.27	0.00
Common Raven	p(date + era) + ψ(1) + γ(1) + ε(1)	6	378.20	7.33	0.00

Species	Model	k	AICc	ΔAICc	Weight
Common Raven	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	378.40	7.53	0.00
Common Raven	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	378.42	7.54	0.00
Common Raven	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	378.43	7.56	0.00
Common Raven	p(era) + ψ(1) + γ(hii) + ε(1)	6	378.52	7.64	0.00
Common Raven	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	378.58	7.71	0.00
Purple Martin	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	231.84	0.00	0.08
Purple Martin	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	232.16	0.32	0.06
Purple Martin	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	232.16	0.32	0.06
Purple Martin	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	232.19	0.35	0.06
Purple Martin	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	232.36	0.52	0.06
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	233.18	1.34	0.04
Purple Martin	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	233.88	2.04	0.03
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	234.11	2.27	0.02
Purple Martin	p(observer) + ψ(1) + γ(Δprecip) + ε(1)	13	234.11	2.27	0.02
Purple Martin	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	234.13	2.29	0.02
Purple Martin	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	234.13	2.29	0.02
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	234.59	2.75	0.02
Purple Martin	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	234.62	2.77	0.02
Purple Martin	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	234.62	2.77	0.02
Purple Martin	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	234.71	2.87	0.02
Purple Martin	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	235.22	3.38	0.01
Purple Martin	p(observer) + ψ(1) + γ(1) + ε(1)	12	235.40	3.56	0.01
Purple Martin	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	235.53	3.68	0.01
Purple Martin	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	235.65	3.81	0.01
Purple Martin	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	235.65	3.81	0.01
Purple Martin	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	235.67	3.83	0.01
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	235.71	3.87	0.01
Purple Martin	p(1) + ψ(latitude) + γ(Δprecip) + ε(1)	6	235.88	4.04	0.01
Purple Martin	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	235.95	4.11	0.01
Purple Martin	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	236.35	4.51	0.01
Purple Martin	p(date + era) + ψ(1) + γ(Δprecip) + ε(1)	7	236.41	4.57	0.01
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	236.43	4.59	0.01
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	236.43	4.59	0.01
Purple Martin	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	236.45	4.61	0.01
Purple Martin	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	236.47	4.63	0.01
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(1)	6	236.47	4.63	0.01
Purple Martin	p(date) + ψ(latitude) + γ(Δprecip) + ε(1)	7	236.50	4.66	0.01
Purple Martin	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	236.53	4.69	0.01
Purple Martin	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	236.56	4.72	0.01
Purple Martin	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	236.58	4.74	0.01
Purple Martin	p(observer) + ψ(1) + γ(hii + Δprecip) + ε(1)	14	236.58	4.74	0.01
Purple Martin	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	236.90	5.06	0.01
Purple Martin	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	236.94	5.10	0.01
Purple Martin	p(era) + ψ(1) + γ(Δprecip) + ε(1)	6	236.96	5.12	0.01
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	237.15	5.30	0.01
Purple Martin	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	237.17	5.33	0.01
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	237.19	5.35	0.01
Purple Martin	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	237.25	5.41	0.01
Purple Martin	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	237.54	5.70	0.00
Purple Martin	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	237.65	5.81	0.00

Species	Model	k	AICc	ΔAICc	Weight
Purple Martin	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	237.67	5.83	0.00
Purple Martin	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	237.73	5.89	0.00
Purple Martin	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	237.84	5.99	0.00
Purple Martin	p(observer) + ψ(1) + γ(hii) + ε(1)	13	237.84	5.99	0.00
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	237.94	6.10	0.00
Purple Martin	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	237.96	6.12	0.00
Purple Martin	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	238.00	6.16	0.00
Purple Martin	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	238.00	6.16	0.00
Purple Martin	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	238.09	6.25	0.00
Purple Martin	p(1) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	7	238.10	6.26	0.00
Purple Martin	p(1) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	7	238.10	6.26	0.00
Purple Martin	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	238.14	6.30	0.00
Purple Martin	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	238.25	6.41	0.00
Purple Martin	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	238.46	6.62	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	238.46	6.62	0.00
Purple Martin	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	238.53	6.69	0.00
Purple Martin	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	238.57	6.73	0.00
Purple Martin	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	238.59	6.75	0.00
Purple Martin	p(date + era) + ψ(1) + γ(1) + ε(1)	6	238.60	6.75	0.00
Purple Martin	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	238.66	6.82	0.00
Purple Martin	p(date + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	8	238.66	6.82	0.00
Purple Martin	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	238.69	6.85	0.00
Purple Martin	p(date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	8	238.75	6.91	0.00
Purple Martin	p(date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	238.75	6.91	0.00
Purple Martin	p(date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	238.75	6.91	0.00
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	238.79	6.95	0.00
Purple Martin	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	238.80	6.96	0.00
Purple Martin	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	238.82	6.98	0.00
Purple Martin	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	238.82	6.98	0.00
Purple Martin	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	238.82	6.98	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	238.85	7.01	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	238.85	7.01	0.00
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	18	238.97	7.13	0.00
Purple Martin	p(era) + ψ(elevation) + γ(1) + ε(1)	6	238.99	7.15	0.00
Purple Martin	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	239.04	7.20	0.00
Purple Martin	p(observer) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	15	239.09	7.25	0.00
Purple Martin	p(1) + ψ(latitude) + γ(1) + ε(1)	5	239.17	7.33	0.00
Purple Martin	p(era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	7	239.18	7.34	0.00
Purple Martin	p(era) + ψ(1) + γ(hii + Δprecip) + ε(1)	7	239.18	7.34	0.00
Purple Martin	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	239.19	7.35	0.00
Purple Martin	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	239.19	7.35	0.00
Purple Martin	p(era) + ψ(1) + γ(1) + ε(1)	5	239.31	7.47	0.00
Purple Martin	p(date) + ψ(latitude) + γ(1) + ε(1)	6	239.40	7.56	0.00
Purple Martin	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	239.42	7.58	0.00
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	239.53	7.69	0.00
Purple Martin	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	239.55	7.71	0.00
Purple Martin	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	239.57	7.73	0.00
Purple Martin	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	239.63	7.79	0.00
Purple Martin	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	239.65	7.81	0.00
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	239.70	7.86	0.00

Species	Model	k	AICc	ΔAICc	Weight
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	239.70	7.86	0.00
Purple Martin	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	239.89	8.05	0.00
Purple Martin	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	239.94	8.10	0.00
Purple Martin	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	240.02	8.17	0.00
Purple Martin	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	240.17	8.33	0.00
Purple Martin	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	240.17	8.33	0.00
Purple Martin	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	240.18	8.34	0.00
Purple Martin	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	240.18	8.34	0.00
Purple Martin	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	240.21	8.37	0.00
Purple Martin	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	240.22	8.37	0.00
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	240.22	8.38	0.00
Purple Martin	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	240.26	8.42	0.00
Purple Martin	p(observer + date) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	16	240.29	8.45	0.00
Purple Martin	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	240.31	8.47	0.00
Purple Martin	p(1) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	8	240.35	8.51	0.00
Purple Martin	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	240.35	8.51	0.00
Purple Martin	p(1) + ψ(elevation) + γ(Δprecip) + ε(1)	6	240.38	8.54	0.00
Purple Martin	p(1) + ψ(latitude) + γ(hii) + ε(1)	6	240.48	8.64	0.00
Purple Martin	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	240.50	8.66	0.00
Tree Swallow	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	249.28	0.00	0.56
Tree Swallow	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	251.49	2.21	0.19
Tree Swallow	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	253.20	3.93	0.08
Tree Swallow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	254.32	5.04	0.05
Tree Swallow	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	255.93	6.65	0.02
Tree Swallow	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	256.40	7.12	0.02
Tree Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	256.54	7.26	0.01
Tree Swallow	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	258.06	8.78	0.01
Tree Swallow	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	258.17	8.89	0.01
Tree Swallow	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	258.18	8.90	0.01
Tree Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	258.24	8.96	0.01
Tree Swallow	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	258.65	9.37	0.01
Violet-green Swallow	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	421.24	0.00	0.23
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	422.03	0.79	0.15
Violet-green Swallow	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	422.56	1.32	0.12
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	422.97	1.73	0.10
Violet-green Swallow	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	423.50	2.26	0.07
Violet-green Swallow	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	424.61	3.37	0.04
Violet-green Swallow	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	425.18	3.94	0.03
Violet-green Swallow	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	425.43	4.19	0.03
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	425.47	4.23	0.03
Violet-green Swallow	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	425.73	4.49	0.02
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	425.83	4.59	0.02
Violet-green Swallow	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	426.39	5.15	0.02
Violet-green Swallow	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	426.71	5.47	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	426.97	5.73	0.01
Violet-green Swallow	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	427.03	5.79	0.01
Violet-green Swallow	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	427.05	5.81	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	427.54	6.30	0.01
Violet-green Swallow	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	427.71	6.47	0.01
Violet-green Swallow	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	427.72	6.48	0.01

Species	Model	k	AICc	ΔAICc	Weight
Violet-green Swallow	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	428.45	7.21	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	428.48	7.24	0.01
Violet-green Swallow	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	428.54	7.30	0.01
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	206.32	0.00	0.28
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	207.12	0.80	0.19
Northern Rough-winged Swallow	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	207.93	1.61	0.12
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	208.58	2.26	0.09
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	209.40	3.08	0.06
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	209.40	3.08	0.06
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	210.83	4.51	0.03
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	210.88	4.56	0.03
Northern Rough-winged Swallow	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	211.10	4.78	0.03
Northern Rough-winged Swallow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	212.82	6.49	0.01
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	212.97	6.65	0.01
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	212.97	6.65	0.01
Northern Rough-winged Swallow	p(date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	213.74	7.41	0.01
Northern Rough-winged Swallow	p(date + date^2) + ψ(1) + γ(hii) + ε(1)	7	214.15	7.83	0.01
Northern Rough-winged Swallow	p(date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	214.88	8.56	0.00
Northern Rough-winged Swallow	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	215.03	8.71	0.00
Northern Rough-winged Swallow	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	215.03	8.71	0.00
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	215.26	8.94	0.00
Northern Rough-winged Swallow	p(date + date^2) + ψ(elevation) + γ(hii) + ε(1)	8	215.34	9.02	0.00
Northern Rough-winged Swallow	p(date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	8	215.36	9.04	0.00
Northern Rough-winged Swallow	p(date + date^2) + ψ(1) + γ(1) + ε(1)	6	215.50	9.18	0.00
Northern Rough-winged Swallow	p(date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	215.84	9.51	0.00
Cliff Swallow	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	480.41	0.00	0.23
Cliff Swallow	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	481.55	1.13	0.13
Cliff Swallow	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	481.89	1.48	0.11
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	481.98	1.57	0.10
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	482.13	1.72	0.10
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	483.46	3.04	0.05
Cliff Swallow	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	484.40	3.98	0.03
Cliff Swallow	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	484.60	4.18	0.03
Cliff Swallow	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	484.81	4.39	0.03
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	485.38	4.97	0.02
Cliff Swallow	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	485.39	4.98	0.02
Cliff Swallow	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	485.58	5.17	0.02
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	486.05	5.64	0.01
Cliff Swallow	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	486.34	5.93	0.01

Species	Model	k	AICc	ΔAICc	Weight
Cliff Swallow	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	486.50	6.09	0.01
Cliff Swallow	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	486.53	6.11	0.01
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	486.82	6.41	0.01
Cliff Swallow	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	487.20	6.79	0.01
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	487.34	6.92	0.01
Cliff Swallow	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	487.36	6.95	0.01
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	487.66	7.24	0.01
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	487.75	7.34	0.01
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	487.89	7.47	0.01
Cliff Swallow	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	488.16	7.75	0.00
Barn Swallow	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	234.74	0.00	0.11
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	234.74	0.00	0.11
Barn Swallow	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	235.77	1.03	0.07
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	236.17	1.43	0.05
Barn Swallow	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	236.20	1.47	0.05
Barn Swallow	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	236.23	1.50	0.05
Barn Swallow	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	236.30	1.57	0.05
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	236.74	2.00	0.04
Barn Swallow	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	236.85	2.12	0.04
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	236.87	2.13	0.04
Barn Swallow	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	236.91	2.18	0.04
Barn Swallow	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	236.92	2.19	0.04
Barn Swallow	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	237.06	2.33	0.03
Barn Swallow	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	237.74	3.00	0.02
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	238.27	3.54	0.02
Barn Swallow	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	238.28	3.54	0.02
Barn Swallow	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	238.32	3.58	0.02
Barn Swallow	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	238.37	3.64	0.02
Barn Swallow	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	238.38	3.64	0.02
Barn Swallow	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	238.42	3.69	0.02
Barn Swallow	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	238.81	4.07	0.01
Barn Swallow	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	238.86	4.12	0.01
Barn Swallow	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	238.86	4.12	0.01
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	238.93	4.19	0.01
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	238.95	4.22	0.01
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	239.08	4.35	0.01
Barn Swallow	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	239.66	4.92	0.01
Barn Swallow	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	239.66	4.92	0.01
Barn Swallow	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	239.92	5.18	0.01
Mountain Chickadee	p(era) + ψ(elevation) + γ(1) + ε(1)	6	135.45	0.00	0.23
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	137.46	2.01	0.08
Mountain Chickadee	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	137.67	2.22	0.08
Mountain Chickadee	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	137.67	2.22	0.08
Mountain Chickadee	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	137.67	2.22	0.08
Mountain Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	138.61	3.16	0.05
Mountain Chickadee	p(1) + ψ(elevation) + γ(1) + ε(1)	5	138.85	3.40	0.04
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	139.71	4.26	0.03
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	139.71	4.26	0.03
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	139.71	4.26	0.03
Mountain Chickadee	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	139.92	4.47	0.02

Species	Model	k	AICc	ΔAICc	Weight
Mountain Chickadee	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	139.92	4.47	0.02
Mountain Chickadee	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	139.92	4.47	0.02
Mountain Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	140.90	5.45	0.02
Mountain Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	140.90	5.45	0.02
Mountain Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	140.90	5.45	0.02
Mountain Chickadee	p(date) + ψ(elevation) + γ(1) + ε(1)	6	141.02	5.58	0.01
Mountain Chickadee	p(1) + ψ(elevation) + γ(Δprecip) + ε(1)	6	141.03	5.58	0.01
Mountain Chickadee	p(1) + ψ(elevation) + γ(Δtemp) + ε(1)	6	141.03	5.58	0.01
Mountain Chickadee	p(1) + ψ(elevation) + γ(hii) + ε(1)	6	141.03	5.58	0.01
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	141.99	6.54	0.01
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	141.99	6.54	0.01
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	141.99	6.54	0.01
Mountain Chickadee	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	142.03	6.58	0.01
Mountain Chickadee	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	142.20	6.75	0.01
Mountain Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	143.22	7.77	0.00
Mountain Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	143.22	7.77	0.00
Mountain Chickadee	p(date) + ψ(elevation) + γ(Δprecip) + ε(1)	7	143.24	7.79	0.00
Mountain Chickadee	p(date) + ψ(elevation) + γ(Δtemp) + ε(1)	7	143.24	7.79	0.00
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	384.77	0.00	0.15
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	384.85	0.08	0.14
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	384.87	0.10	0.14
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	385.33	0.56	0.11
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	386.59	1.82	0.06
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	386.60	1.84	0.06
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	386.74	1.97	0.05
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	387.01	2.24	0.05
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	387.09	2.32	0.05
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	387.38	2.61	0.04
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	387.50	2.73	0.04
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	387.77	3.01	0.03
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	388.89	4.12	0.02
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	388.93	4.17	0.02
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	389.33	4.56	0.01
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	350.32	0.00	0.46
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	351.28	0.96	0.29
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	353.86	3.54	0.08
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	354.16	3.84	0.07
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	355.11	4.79	0.04
Oak Titmouse	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	357.30	6.98	0.01
Bushtit	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	629.20	0.00	0.13
Bushtit	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	629.43	0.22	0.12
Bushtit	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	629.58	0.38	0.11
Bushtit	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	629.63	0.43	0.11

Species	Model	k	AICc	ΔAICc	Weight
Bushtit	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	631.01	1.80	0.05
Bushtit	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	631.14	1.93	0.05
Bushtit	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	631.21	2.01	0.05
Bushtit	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	631.60	2.39	0.04
Bushtit	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	632.08	2.87	0.03
Bushtit	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	632.28	3.07	0.03
Bushtit	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	632.31	3.11	0.03
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	632.55	3.35	0.02
Bushtit	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	632.71	3.50	0.02
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	633.16	3.96	0.02
Bushtit	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	633.27	4.06	0.02
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	633.65	4.44	0.01
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	634.01	4.81	0.01
Bushtit	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	634.47	5.27	0.01
Bushtit	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	634.48	5.28	0.01
Bushtit	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	634.48	5.28	0.01
Bushtit	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	634.53	5.33	0.01
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	634.88	5.67	0.01
Bushtit	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	634.94	5.74	0.01
Bushtit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	634.95	5.75	0.01
Bushtit	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	635.16	5.96	0.01
Bushtit	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	635.25	6.05	0.01
Bushtit	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	635.51	6.31	0.01
Bushtit	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	635.63	6.42	0.01
Bushtit	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	635.72	6.52	0.01
Bushtit	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	636.08	6.88	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	314.33	0.00	0.21
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	316.37	2.05	0.07
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	316.54	2.21	0.07
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	316.87	2.54	0.06
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	317.09	2.77	0.05
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	317.61	3.28	0.04
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	318.47	4.14	0.03
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	318.77	4.44	0.02
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	318.79	4.46	0.02
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	318.79	4.47	0.02
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	318.90	4.58	0.02
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	319.13	4.80	0.02
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	319.41	5.08	0.02
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	319.44	5.12	0.02
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	319.51	5.18	0.02
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	319.54	5.21	0.02
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	319.67	5.35	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	319.75	5.42	0.01
Red-breasted Nuthatch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	319.76	5.43	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	319.85	5.52	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	319.98	5.65	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	320.36	6.04	0.01
Red-breasted Nuthatch	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	320.39	6.06	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	320.48	6.15	0.01

Species	Model	k	AICc	ΔAICc	Weight
Red-breasted Nuthatch	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	320.78	6.46	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	320.79	6.46	0.01
Red-breasted Nuthatch	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	320.98	6.66	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	321.05	6.73	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	321.19	6.86	0.01
Red-breasted Nuthatch	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	321.22	6.90	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	321.29	6.96	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	321.38	7.06	0.01
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	321.39	7.06	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	321.49	7.16	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	321.64	7.31	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	321.98	7.65	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	321.99	7.66	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	322.02	7.70	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	322.03	7.70	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	322.04	7.72	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	322.08	7.76	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	322.21	7.88	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	322.26	7.94	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	322.32	7.99	0.00
Red-breasted Nuthatch	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	322.45	8.13	0.00
Red-breasted Nuthatch	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	322.46	8.13	0.00
Red-breasted Nuthatch	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	322.54	8.21	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	322.59	8.26	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	322.69	8.37	0.00
Red-breasted Nuthatch	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	322.73	8.40	0.00
Red-breasted Nuthatch	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	322.73	8.41	0.00
Red-breasted Nuthatch	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	322.94	8.62	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	323.00	8.67	0.00
Red-breasted Nuthatch	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	323.05	8.72	0.00
Red-breasted Nuthatch	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	323.06	8.74	0.00
Red-breasted Nuthatch	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	323.08	8.75	0.00
Red-breasted Nuthatch	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	323.11	8.78	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	323.37	9.05	0.00
Red-breasted Nuthatch	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	323.61	9.28	0.00
Red-breasted Nuthatch	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	323.67	9.35	0.00
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	456.44	0.00	0.42
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	458.46	2.02	0.15
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	458.99	2.55	0.12
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	458.99	2.55	0.12
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	461.05	4.61	0.04
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	461.10	4.65	0.04
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	461.24	4.80	0.04
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	463.14	6.70	0.01
White-breasted Nuthatch	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	464.39	7.95	0.01
White-breasted Nuthatch	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	465.37	8.93	0.00
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(hii) + ε(1)	7	251.83	0.00	0.07
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	251.96	0.12	0.06
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(Δtemp) + ε(1)	7	252.48	0.65	0.05
Pygmy Nuthatch	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	252.58	0.75	0.05

Species	Model	k	AICc	ΔAICc	Weight
Pygmy Nuthatch	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	252.66	0.82	0.04
Pygmy Nuthatch	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	253.02	1.18	0.04
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	253.38	1.55	0.03
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	253.43	1.60	0.03
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	253.48	1.65	0.03
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	253.58	1.74	0.03
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	9	253.76	1.93	0.03
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	253.94	2.11	0.02
Pygmy Nuthatch	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	254.04	2.21	0.02
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	8	254.04	2.21	0.02
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	254.10	2.26	0.02
Pygmy Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	254.17	2.34	0.02
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	9	254.24	2.41	0.02
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	254.25	2.42	0.02
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	254.39	2.56	0.02
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	254.53	2.70	0.02
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	254.58	2.75	0.02
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	254.66	2.83	0.02
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(1) + ε(1)	6	254.85	3.02	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	254.87	3.03	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	255.14	3.30	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	255.25	3.42	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	255.26	3.43	0.01
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	255.63	3.79	0.01
Pygmy Nuthatch	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	255.64	3.81	0.01
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	255.68	3.85	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	255.72	3.89	0.01
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	255.75	3.92	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	255.81	3.98	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	9	255.82	3.99	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	255.94	4.11	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	256.02	4.19	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	10	256.08	4.25	0.01
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	256.10	4.27	0.01
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	256.18	4.35	0.01
Pygmy Nuthatch	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	256.28	4.45	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	256.40	4.57	0.01
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	256.42	4.58	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	9	256.47	4.64	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	256.55	4.72	0.01
Pygmy Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	256.57	4.73	0.01
Pygmy Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	256.67	4.84	0.01
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	256.80	4.96	0.01
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	256.96	5.13	0.01
Pygmy Nuthatch	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	257.00	5.17	0.01
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(Δprecip) + ε(1)	7	257.06	5.22	0.00
Pygmy Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	257.15	5.32	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	257.41	5.58	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	257.43	5.59	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	257.50	5.67	0.00

Species	Model	k	AICc	ΔAICc	Weight
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	257.60	5.77	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	257.81	5.98	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	258.00	6.17	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	258.09	6.26	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	258.30	6.47	0.00
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	258.34	6.51	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	258.52	6.69	0.00
Brown Creeper	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	411.58	0.00	0.22
Brown Creeper	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	412.10	0.53	0.17
Brown Creeper	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	413.20	1.62	0.10
Brown Creeper	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	413.35	1.77	0.09
Brown Creeper	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	413.73	2.16	0.08
Brown Creeper	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	414.05	2.47	0.06
Brown Creeper	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	414.07	2.50	0.06
Brown Creeper	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	415.43	3.86	0.03
Brown Creeper	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	415.79	4.21	0.03
Brown Creeper	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	415.94	4.37	0.03
Brown Creeper	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	416.18	4.60	0.02
Brown Creeper	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	416.24	4.66	0.02
Brown Creeper	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	416.25	4.67	0.02
Brown Creeper	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	416.25	4.67	0.02
Bewick's Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	452.85	0.00	0.46
Bewick's Wren	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	455.30	2.46	0.13
Bewick's Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	455.38	2.53	0.13
Bewick's Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	455.75	2.90	0.11
Bewick's Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	456.21	3.37	0.08
Bewick's Wren	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	458.81	5.96	0.02
Bewick's Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	459.09	6.24	0.02
House Wren	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	485.21	0.00	0.20
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	486.52	1.31	0.10
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	487.14	1.92	0.08
House Wren	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	487.15	1.94	0.07
House Wren	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	487.45	2.23	0.06
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	488.35	3.13	0.04
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	488.45	3.24	0.04
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	488.86	3.65	0.03
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	489.29	4.08	0.03
House Wren	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	489.58	4.36	0.02
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	489.62	4.40	0.02
House Wren	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	489.95	4.74	0.02
House Wren	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	489.96	4.74	0.02
House Wren	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	490.43	5.22	0.01
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	490.50	5.28	0.01
House Wren	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	490.56	5.35	0.01
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	490.59	5.38	0.01
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	490.86	5.65	0.01
House Wren	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	490.98	5.76	0.01
House Wren	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	491.05	5.83	0.01
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	491.09	5.88	0.01
House Wren	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	491.38	6.17	0.01

Species	Model	k	AICc	ΔAICc	Weight
House Wren	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	491.45	6.24	0.01
House Wren	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	491.55	6.34	0.01
House Wren	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	491.65	6.44	0.01
House Wren	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	491.80	6.59	0.01
House Wren	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	491.90	6.68	0.01
House Wren	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	491.92	6.70	0.01
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	491.96	6.75	0.01
House Wren	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	492.09	6.88	0.01
House Wren	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	492.15	6.93	0.01
House Wren	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	492.21	7.00	0.01
House Wren	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	492.29	7.08	0.01
House Wren	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	492.31	7.10	0.01
House Wren	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	492.51	7.29	0.01
House Wren	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	492.73	7.52	0.00
House Wren	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	493.03	7.82	0.00
House Wren	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	493.12	7.90	0.00
House Wren	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	493.34	8.13	0.00
House Wren	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	493.35	8.14	0.00
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	286.54	0.00	0.22
Winter Wren	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	287.84	1.30	0.11
Winter Wren	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	288.51	1.97	0.08
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	289.04	2.49	0.06
Winter Wren	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	289.05	2.51	0.06
Winter Wren	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	289.83	3.29	0.04
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	289.97	3.43	0.04
Winter Wren	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	290.25	3.71	0.03
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	290.35	3.81	0.03
Winter Wren	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	290.37	3.83	0.03
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	290.55	4.01	0.03
Winter Wren	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	290.60	4.06	0.03
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	291.04	4.49	0.02
Winter Wren	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	291.05	4.51	0.02
Winter Wren	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	291.19	4.65	0.02
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	291.22	4.68	0.02
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	291.59	5.04	0.02
Winter Wren	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	292.08	5.54	0.01
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	292.24	5.70	0.01
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	292.57	6.03	0.01
Winter Wren	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	292.61	6.07	0.01
Winter Wren	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	292.84	6.29	0.01
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	292.87	6.33	0.01
Winter Wren	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	292.89	6.35	0.01
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	365.23	0.00	0.10
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	365.47	0.24	0.09
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	365.68	0.46	0.08
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	366.02	0.79	0.07
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	366.36	1.14	0.06
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	366.81	1.59	0.04
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	366.85	1.63	0.04
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	366.98	1.75	0.04

Species	Model	k	AICc	ΔAICc	Weight
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	367.04	1.81	0.04
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	367.10	1.88	0.04
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	367.44	2.21	0.03
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	367.55	2.33	0.03
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	367.70	2.47	0.03
Blue-gray Gnatcatcher	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	367.75	2.53	0.03
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	367.77	2.55	0.03
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	367.99	2.77	0.02
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	368.17	2.95	0.02
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	368.36	3.14	0.02
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	368.56	3.33	0.02
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	368.98	3.75	0.02
Blue-gray Gnatcatcher	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	369.05	3.83	0.01
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	369.18	3.95	0.01
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	369.40	4.17	0.01
Blue-gray Gnatcatcher	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	369.44	4.21	0.01
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	369.55	4.32	0.01
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	369.56	4.34	0.01
Blue-gray Gnatcatcher	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	369.58	4.35	0.01
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	370.05	4.83	0.01
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	370.32	5.09	0.01
Golden-crowned Kinglet	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	226.63	0.00	0.35
Golden-crowned Kinglet	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	226.96	0.33	0.30
Golden-crowned Kinglet	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	228.96	2.32	0.11
Golden-crowned Kinglet	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	229.25	2.61	0.09
Golden-crowned Kinglet	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	231.21	4.57	0.04
Golden-crowned Kinglet	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	231.31	4.68	0.03
Golden-crowned Kinglet	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	231.57	4.93	0.03
Wrentit	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	511.55	0.00	0.12
Wrentit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	511.80	0.25	0.11
Wrentit	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	512.48	0.93	0.08
Wrentit	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	513.25	1.71	0.05
Wrentit	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	513.25	1.71	0.05
Wrentit	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	513.38	1.83	0.05
Wrentit	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	513.58	2.04	0.04
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	514.01	2.46	0.04
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	514.01	2.46	0.04
Wrentit	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	514.10	2.55	0.03
Wrentit	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	514.19	2.64	0.03
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	514.28	2.73	0.03
Wrentit	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	514.31	2.76	0.03
Wrentit	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	515.30	3.76	0.02
Wrentit	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	515.45	3.90	0.02
Wrentit	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	515.55	4.01	0.02
Wrentit	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	515.66	4.12	0.02
Wrentit	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	515.69	4.14	0.02
Wrentit	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	515.81	4.26	0.01
Wrentit	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	516.05	4.50	0.01
Wrentit	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	516.23	4.68	0.01
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	516.30	4.76	0.01

Species	Model	k	AICc	ΔAICc	Weight
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	18	516.64	5.10	0.01
Wrentit	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	516.69	5.15	0.01
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	516.83	5.28	0.01
Wrentit	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	516.86	5.31	0.01
Wrentit	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	516.97	5.42	0.01
Wrentit	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	517.03	5.48	0.01
Wrentit	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	517.50	5.95	0.01
Wrentit	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	517.64	6.10	0.01
Wrentit	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	517.67	6.12	0.01
Wrentit	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	517.74	6.19	0.01
Wrentit	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	517.90	6.35	0.01
Wrentit	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	518.15	6.61	0.00
Wrentit	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	518.17	6.63	0.00
Wrentit	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	518.24	6.69	0.00
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	518.53	6.99	0.00
Wrentit	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	518.54	6.99	0.00
Western Bluebird	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	537.91	0.00	0.15
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	538.66	0.75	0.11
Western Bluebird	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	540.13	2.22	0.05
Western Bluebird	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	540.38	2.47	0.05
Western Bluebird	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	540.42	2.51	0.04
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	540.49	2.58	0.04
Western Bluebird	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	540.79	2.87	0.04
Western Bluebird	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	540.99	3.08	0.03
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	541.07	3.16	0.03
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	541.09	3.18	0.03
Western Bluebird	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	541.66	3.75	0.02
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	541.78	3.87	0.02
Western Bluebird	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	542.10	4.19	0.02
Western Bluebird	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	542.15	4.24	0.02
Western Bluebird	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	542.32	4.41	0.02
Western Bluebird	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	542.55	4.63	0.02
Western Bluebird	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	542.63	4.71	0.01
Western Bluebird	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	542.68	4.77	0.01
Western Bluebird	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	542.75	4.84	0.01
Western Bluebird	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	542.81	4.89	0.01
Western Bluebird	p(observer) + ψ(1) + γ(hii) + ε(1)	13	542.91	5.00	0.01
Western Bluebird	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	542.92	5.01	0.01
Western Bluebird	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	542.93	5.02	0.01
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	543.09	5.17	0.01
Western Bluebird	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	543.18	5.27	0.01
Western Bluebird	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	543.24	5.33	0.01
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	543.30	5.39	0.01
Western Bluebird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	543.41	5.50	0.01
Western Bluebird	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	543.44	5.53	0.01
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	543.51	5.59	0.01
Western Bluebird	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	544.03	6.12	0.01
Western Bluebird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	544.29	6.38	0.01
Western Bluebird	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	544.44	6.52	0.01
Western Bluebird	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	544.54	6.63	0.01

Species	Model	k	AICc	ΔAICc	Weight
Western Bluebird	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	544.73	6.82	0.01
Western Bluebird	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	544.76	6.84	0.01
Western Bluebird	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	544.84	6.92	0.00
Western Bluebird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	544.88	6.96	0.00
Western Bluebird	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	544.95	7.04	0.00
Western Bluebird	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	544.97	7.06	0.00
Western Bluebird	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	545.02	7.11	0.00
Western Bluebird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	545.16	7.24	0.00
Western Bluebird	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	545.22	7.31	0.00
Western Bluebird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	545.27	7.36	0.00
Western Bluebird	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	545.44	7.52	0.00
Western Bluebird	p(observer) + ψ(1) + γ(1) + ε(1)	12	545.44	7.53	0.00
Western Bluebird	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	545.49	7.58	0.00
Western Bluebird	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	545.67	7.76	0.00
Western Bluebird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	545.67	7.76	0.00
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	545.78	7.87	0.00
Townsend's Solitaire	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	132.18	0.00	0.25
Townsend's Solitaire	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	132.94	0.76	0.17
Townsend's Solitaire	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	134.35	2.17	0.08
Townsend's Solitaire	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	134.40	2.22	0.08
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	134.44	2.26	0.08
Townsend's Solitaire	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	135.15	2.97	0.06
Townsend's Solitaire	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	135.19	3.01	0.05
Townsend's Solitaire	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	135.19	3.01	0.05
Townsend's Solitaire	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	136.60	4.42	0.03
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	136.68	4.50	0.03
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	136.73	4.55	0.03
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	136.73	4.55	0.03
Townsend's Solitaire	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	136.99	4.81	0.02
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	397.49	0.00	0.45
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	399.87	2.38	0.14
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	399.92	2.43	0.13
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	400.04	2.55	0.13
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	400.26	2.77	0.11
Hermit Thrush	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	319.85	0.00	0.05
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	320.06	0.21	0.05
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	320.28	0.43	0.04
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	320.50	0.66	0.04
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	320.56	0.71	0.04
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	320.76	0.92	0.03
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	321.00	1.16	0.03
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	321.04	1.19	0.03
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	321.17	1.33	0.03
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(1)	6	321.26	1.41	0.03
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	321.67	1.83	0.02
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	321.71	1.87	0.02
Hermit Thrush	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	321.86	2.02	0.02
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	321.90	2.05	0.02
Hermit Thrush	p(date) + ψ(latitude) + γ(Δprecip) + ε(1)	7	321.98	2.13	0.02
Hermit Thrush	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	321.98	2.13	0.02

Species	Model	k	AICc	ΔAICc	Weight
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	321.98	2.13	0.02
Hermit Thrush	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	322.07	2.22	0.02
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	322.09	2.25	0.02
Hermit Thrush	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	322.25	2.40	0.02
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	322.29	2.45	0.02
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	322.45	2.61	0.01
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	322.50	2.65	0.01
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	322.67	2.83	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	322.83	2.98	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(hii) + ε(1)	7	322.85	3.00	0.01
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	323.13	3.29	0.01
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	8	323.15	3.31	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	323.21	3.37	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	323.24	3.40	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(Δtemp) + ε(1)	7	323.32	3.48	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	323.35	3.51	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	323.43	3.58	0.01
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(hii) + ε(1)	8	323.56	3.71	0.01
Hermit Thrush	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	323.59	3.75	0.01
Hermit Thrush	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	323.77	3.93	0.01
Hermit Thrush	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	323.90	4.05	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	323.90	4.05	0.01
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	8	323.99	4.14	0.01
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	324.01	4.16	0.01
Hermit Thrush	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	324.02	4.17	0.01
Hermit Thrush	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	324.04	4.20	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	324.07	4.22	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	324.12	4.27	0.01
Hermit Thrush	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	324.14	4.29	0.01
Hermit Thrush	p(era) + ψ(latitude) + γ(1) + ε(1)	6	324.14	4.30	0.01
Hermit Thrush	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	324.17	4.33	0.01
Hermit Thrush	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	324.24	4.39	0.01
Hermit Thrush	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	324.41	4.56	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	324.43	4.59	0.01
Hermit Thrush	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	324.45	4.60	0.01
Hermit Thrush	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	324.49	4.64	0.01
Hermit Thrush	p(date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	324.60	4.75	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	324.63	4.78	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	324.63	4.78	0.00
Hermit Thrush	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	324.66	4.82	0.00
Hermit Thrush	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	324.68	4.83	0.00
Hermit Thrush	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	324.69	4.84	0.00
Hermit Thrush	p(date) + ψ(hPrecip) + γ(hii) + ε(1)	7	324.76	4.92	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	324.85	5.00	0.00
Hermit Thrush	p(date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	324.89	5.04	0.00
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	324.91	5.07	0.00
Hermit Thrush	p(date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	324.97	5.12	0.00
Hermit Thrush	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	324.99	5.14	0.00
Hermit Thrush	p(1) + ψ(latitude) + γ(1) + ε(1)	5	325.00	5.16	0.00
Hermit Thrush	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	325.06	5.22	0.00

Species	Model	k	AICc	ΔAICc	Weight
Hermit Thrush	p(1) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	7	325.19	5.35	0.00
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	325.20	5.36	0.00
Hermit Thrush	p(1) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	8	325.30	5.46	0.00
Hermit Thrush	p(date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	8	325.38	5.53	0.00
Hermit Thrush	p(date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	325.40	5.55	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	325.47	5.63	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	325.47	5.63	0.00
Hermit Thrush	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	325.64	5.79	0.00
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	325.67	5.83	0.00
Hermit Thrush	p(date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	325.95	6.10	0.00
Hermit Thrush	p(date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	325.97	6.13	0.00
Hermit Thrush	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	326.08	6.24	0.00
Hermit Thrush	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	326.09	6.24	0.00
Hermit Thrush	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	326.21	6.36	0.00
Hermit Thrush	p(1) + ψ(latitude) + γ(Δprecip) + ε(1)	6	326.23	6.38	0.00
Hermit Thrush	p(date) + ψ(hTemp) + γ(hii) + ε(1)	7	326.26	6.41	0.00
Hermit Thrush	p(1) + ψ(latitude) + γ(hii) + ε(1)	6	326.27	6.42	0.00
Hermit Thrush	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	326.33	6.49	0.00
Hermit Thrush	p(date) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	326.38	6.54	0.00
Hermit Thrush	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	326.42	6.57	0.00
Hermit Thrush	p(date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	8	326.48	6.63	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	326.53	6.69	0.00
Hermit Thrush	p(1) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	9	326.55	6.71	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	326.59	6.75	0.00
American Robin	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	525.49	0.00	0.07
American Robin	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	525.57	0.08	0.07
American Robin	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	525.78	0.28	0.06
American Robin	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	526.17	0.67	0.05
American Robin	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	526.44	0.95	0.05
American Robin	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	526.65	1.16	0.04
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	527.32	1.83	0.03
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	527.39	1.89	0.03
American Robin	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	527.41	1.91	0.03
American Robin	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	527.43	1.93	0.03
American Robin	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	527.58	2.09	0.03
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	527.60	2.10	0.03
American Robin	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	527.64	2.14	0.03
American Robin	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	527.76	2.26	0.02
American Robin	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	527.85	2.35	0.02
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	527.88	2.39	0.02
American Robin	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	527.94	2.44	0.02
American Robin	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	528.00	2.51	0.02
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	528.08	2.59	0.02
American Robin	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	528.18	2.69	0.02
American Robin	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	528.19	2.70	0.02
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	528.26	2.77	0.02
American Robin	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	528.30	2.81	0.02
American Robin	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	528.34	2.85	0.02
American Robin	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	528.42	2.92	0.02
American Robin	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	528.50	3.01	0.02

Species	Model	k	AICc	ΔAICc	Weight
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	528.51	3.02	0.02
American Robin	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	528.65	3.15	0.02
American Robin	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	528.71	3.21	0.01
American Robin	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	528.87	3.38	0.01
American Robin	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	529.05	3.56	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	529.10	3.60	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	529.13	3.64	0.01
American Robin	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	529.43	3.93	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	529.54	4.05	0.01
American Robin	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	529.57	4.08	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	529.61	4.11	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	529.86	4.37	0.01
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	529.87	4.37	0.01
American Robin	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	529.91	4.42	0.01
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	333.56	0.00	0.20
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	333.82	0.26	0.17
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	335.57	2.01	0.07
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	335.80	2.25	0.06
California Thrasher	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	335.86	2.30	0.06
California Thrasher	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	336.05	2.49	0.06
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	336.08	2.52	0.06
California Thrasher	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	336.24	2.68	0.05
California Thrasher	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	336.26	2.70	0.05
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	337.97	4.41	0.02
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	338.11	4.55	0.02
California Thrasher	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	338.20	4.65	0.02
California Thrasher	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	338.28	4.72	0.02
California Thrasher	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	338.32	4.76	0.02
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	338.39	4.83	0.02
California Thrasher	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	338.49	4.93	0.02
California Thrasher	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	338.55	4.99	0.02
California Thrasher	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	338.72	5.17	0.02
European Starling	p(date) + ψ(1) + γ(1) + ε(1)	5	180.70	0.00	0.36
European Starling	p(date) + ψ(hTemp) + γ(hii) + ε(1)	7	182.59	1.89	0.14
European Starling	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	182.88	2.18	0.12
European Starling	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	182.88	2.18	0.12
European Starling	p(date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	184.17	3.47	0.06
European Starling	p(date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	8	184.58	3.88	0.05
European Starling	p(date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	8	184.58	3.88	0.05
European Starling	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	184.84	4.14	0.04
European Starling	p(date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	186.98	6.28	0.02
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	435.06	0.00	0.14
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	435.62	0.56	0.10
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	436.06	1.00	0.08
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	436.56	1.50	0.07
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	437.32	2.26	0.04
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	437.60	2.53	0.04

Species	Model	k	AICc	ΔAICc	Weight
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	437.85	2.78	0.03
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	438.13	3.07	0.03
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	438.13	3.07	0.03
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	438.19	3.13	0.03
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	438.57	3.50	0.02
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	438.66	3.60	0.02
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	438.67	3.61	0.02
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	438.98	3.91	0.02
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	439.10	4.04	0.02
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	439.26	4.19	0.02
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	439.64	4.58	0.01
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	439.65	4.58	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	439.89	4.83	0.01
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	439.91	4.84	0.01
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	439.94	4.88	0.01
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	440.08	5.01	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	440.14	5.08	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	440.25	5.18	0.01
Orange-crowned Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	440.35	5.28	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	18	440.37	5.30	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	440.74	5.67	0.01
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(hii + Δtemp) + ε(1)	15	440.75	5.68	0.01
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	440.76	5.69	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	440.83	5.76	0.01
Orange-crowned Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	440.93	5.86	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	440.97	5.90	0.01
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	441.17	6.10	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	441.25	6.18	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	441.26	6.20	0.01
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	441.28	6.22	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	441.32	6.26	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	441.42	6.36	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	441.50	6.44	0.01

Species	Model	k	AICc	ΔAICc	Weight
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	441.90	6.83	0.00
Orange-crowned Warbler	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	441.97	6.90	0.00
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	442.15	7.09	0.00
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	442.19	7.13	0.00
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	442.32	7.26	0.00
Orange-crowned Warbler	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	442.36	7.29	0.00
Orange-crowned Warbler	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	442.38	7.32	0.00
Nashville Warbler	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	240.85	0.00	0.18
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	242.25	1.40	0.09
Nashville Warbler	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	242.92	2.07	0.06
Nashville Warbler	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	243.10	2.25	0.06
Nashville Warbler	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	243.11	2.26	0.06
Nashville Warbler	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	243.43	2.58	0.05
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	243.51	2.66	0.05
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	244.23	3.38	0.03
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	244.30	3.45	0.03
Nashville Warbler	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	244.45	3.60	0.03
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	244.58	3.73	0.03
Nashville Warbler	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	244.88	4.03	0.02
Nashville Warbler	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	245.15	4.30	0.02
Nashville Warbler	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	245.20	4.35	0.02
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(1)	6	245.23	4.38	0.02
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	8	245.32	4.47	0.02
Nashville Warbler	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	245.40	4.55	0.02
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(hii) + ε(1)	8	245.58	4.73	0.02
Nashville Warbler	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	245.61	4.76	0.02
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	245.81	4.96	0.02
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	246.12	5.27	0.01
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	246.16	5.31	0.01
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	246.35	5.50	0.01
Nashville Warbler	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	246.44	5.59	0.01
Nashville Warbler	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	247.14	6.29	0.01
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	247.22	6.37	0.01
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	247.25	6.40	0.01
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	247.41	6.56	0.01
Nashville Warbler	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	247.43	6.58	0.01
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	247.54	6.69	0.01
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	247.64	6.79	0.01
Nashville Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	248.45	7.60	0.00
Nashville Warbler	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	248.66	7.81	0.00
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	8	248.71	7.86	0.00
Nashville Warbler	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	249.13	8.28	0.00
Nashville Warbler	p(1) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	7	249.14	8.29	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	296.59	0.00	0.09
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	297.21	0.62	0.07
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	298.19	1.60	0.04
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	298.46	1.86	0.04

Species	Model	k	AICc	ΔAICc	Weight
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	298.47	1.88	0.04
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(1)	6	298.56	1.97	0.04
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	298.57	1.98	0.04
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	298.91	2.32	0.03
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	299.06	2.47	0.03
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	299.07	2.48	0.03
MacGillivray's Warbler	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	299.37	2.78	0.02
MacGillivray's Warbler	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	299.41	2.81	0.02
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	299.72	3.13	0.02
MacGillivray's Warbler	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	299.99	3.39	0.02
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	300.04	3.44	0.02
MacGillivray's Warbler	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	300.05	3.46	0.02
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	300.18	3.59	0.02
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	300.22	3.63	0.02
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	300.38	3.79	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	300.40	3.81	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	300.56	3.96	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	300.61	4.02	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	300.63	4.04	0.01
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	300.67	4.08	0.01
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	300.75	4.16	0.01
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	300.77	4.18	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	300.84	4.24	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	301.11	4.52	0.01
MacGillivray's Warbler	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	301.18	4.59	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	301.20	4.60	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	301.20	4.61	0.01
MacGillivray's Warbler	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	301.24	4.65	0.01
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	301.24	4.65	0.01
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	301.26	4.67	0.01
MacGillivray's Warbler	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	301.30	4.70	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	301.38	4.79	0.01
MacGillivray's Warbler	p(era) + ψ(1) + γ(Δprecip) + ε(1)	6	301.49	4.90	0.01
MacGillivray's Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	301.61	5.02	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	301.71	5.11	0.01
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	302.10	5.51	0.01
MacGillivray's Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	302.12	5.52	0.01
MacGillivray's Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	302.13	5.54	0.01
MacGillivray's Warbler	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	302.15	5.55	0.01
MacGillivray's Warbler	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	302.21	5.62	0.01
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	9	302.25	5.66	0.01
MacGillivray's Warbler	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	302.26	5.66	0.01
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	302.36	5.77	0.01
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	302.41	5.82	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	9	302.44	5.85	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	302.50	5.90	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	302.54	5.95	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	302.57	5.98	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	302.74	6.15	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	9	302.75	6.16	0.00

Species	Model	k	AICc	ΔAICc	Weight
MacGillivray's Warbler	p(era) + ψ(1) + γ(1) + ε(1)	5	302.80	6.21	0.00
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(1) + ε(1)	6	302.85	6.26	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	302.88	6.29	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	302.89	6.30	0.00
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	302.89	6.30	0.00
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	302.92	6.33	0.00
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	303.00	6.40	0.00
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	303.00	6.41	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	303.07	6.48	0.00
MacGillivray's Warbler	p(era) + ψ(1) + γ(hii + Δprecip) + ε(1)	7	303.15	6.56	0.00
MacGillivray's Warbler	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	303.39	6.80	0.00
MacGillivray's Warbler	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	303.41	6.82	0.00
MacGillivray's Warbler	p(era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	7	303.51	6.91	0.00
MacGillivray's Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	303.51	6.92	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	303.52	6.92	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	303.60	7.00	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	303.60	7.01	0.00
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	303.61	7.01	0.00
MacGillivray's Warbler	p(date + era) + ψ(1) + γ(Δprecip) + ε(1)	7	303.62	7.03	0.00
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(1)	6	143.78	0.00	0.09
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	144.82	1.04	0.06
Common Yellowthroat	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	145.25	1.46	0.04
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	145.29	1.51	0.04
Common Yellowthroat	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	145.29	1.51	0.04
Common Yellowthroat	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	145.38	1.60	0.04
Common Yellowthroat	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	145.75	1.97	0.03
Common Yellowthroat	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	146.00	2.22	0.03
Common Yellowthroat	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	146.00	2.22	0.03
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	146.24	2.45	0.03
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	146.46	2.68	0.02
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	146.88	3.10	0.02
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	147.01	3.22	0.02
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	147.08	3.29	0.02
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	147.08	3.29	0.02
Common Yellowthroat	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	147.53	3.75	0.01
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	147.84	4.06	0.01
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	147.84	4.06	0.01
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	147.84	4.06	0.01
Common Yellowthroat	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	147.89	4.10	0.01
Common Yellowthroat	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	147.93	4.15	0.01
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	147.96	4.18	0.01
Common Yellowthroat	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	148.05	4.27	0.01
Common Yellowthroat	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	148.25	4.47	0.01
Common Yellowthroat	p(era) + ψ(1) + γ(1) + ε(1)	5	148.30	4.52	0.01
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	148.52	4.74	0.01
Common Yellowthroat	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	148.52	4.74	0.01
Common Yellowthroat	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	148.70	4.91	0.01
Common Yellowthroat	p(observer) + ψ(1) + γ(1) + ε(1)	12	148.86	5.08	0.01
Common Yellowthroat	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	148.87	5.09	0.01
Common Yellowthroat	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	148.88	5.09	0.01

Species	Model	k	AICc	ΔAICc	Weight
Common Yellowthroat	p(observer + date) + ψ(1) + γ(hii + Δtemp) + ε(1)	15	148.92	5.14	0.01
Common Yellowthroat	p(date + era) + ψ(1) + γ(1) + ε(1)	6	148.94	5.16	0.01
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	149.07	5.28	0.01
Common Yellowthroat	p(era) + ψ(1) + γ(Δprecip) + ε(1)	6	149.33	5.54	0.01
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	149.36	5.58	0.01
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	149.36	5.58	0.01
Common Yellowthroat	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	149.40	5.61	0.01
Common Yellowthroat	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	149.42	5.63	0.01
Common Yellowthroat	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	149.54	5.76	0.01
Common Yellowthroat	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	149.56	5.77	0.01
Common Yellowthroat	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	149.67	5.89	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(Δtemp) + ε(1)	6	149.71	5.93	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	149.72	5.94	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(1) + ε(1)	6	149.95	6.17	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(Δprecip) + ε(1)	7	149.97	6.19	0.00
Common Yellowthroat	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	149.99	6.20	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	150.15	6.37	0.00
Common Yellowthroat	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	150.16	6.38	0.00
Common Yellowthroat	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	150.17	6.38	0.00
Common Yellowthroat	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	150.23	6.44	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(hii) + ε(1)	6	150.24	6.46	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	150.27	6.48	0.00
Common Yellowthroat	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	150.33	6.55	0.00
Common Yellowthroat	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	150.40	6.61	0.00
Common Yellowthroat	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	150.43	6.64	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	150.44	6.65	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	150.44	6.65	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(Δtemp) + ε(1)	7	150.49	6.70	0.00
Common Yellowthroat	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	150.49	6.71	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	150.51	6.73	0.00
Common Yellowthroat	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	150.52	6.74	0.00
Common Yellowthroat	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	150.53	6.74	0.00
Common Yellowthroat	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	150.53	6.74	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	150.61	6.83	0.00
Common Yellowthroat	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	150.74	6.96	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	150.84	7.06	0.00
Common Yellowthroat	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	150.88	7.10	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(hii) + ε(1)	7	150.89	7.10	0.00
Common Yellowthroat	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	150.91	7.12	0.00
Common Yellowthroat	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	150.92	7.14	0.00
Common Yellowthroat	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	150.95	7.16	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	150.99	7.21	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	151.07	7.29	0.00
Common Yellowthroat	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	151.08	7.30	0.00
Common Yellowthroat	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	151.13	7.35	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(hii + Δprecip) + ε(1)	7	151.17	7.38	0.00
Common Yellowthroat	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	151.19	7.40	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	7	151.23	7.45	0.00
Common Yellowthroat	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	151.27	7.49	0.00
Common Yellowthroat	p(observer) + ψ(1) + γ(hii) + ε(1)	13	151.28	7.50	0.00

Species	Model	k	AICc	ΔAICc	Weight
Common Yellowthroat	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	151.30	7.51	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	151.30	7.52	0.00
Common Yellowthroat	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	151.32	7.54	0.00
Common Yellowthroat	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	151.32	7.54	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	151.33	7.54	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	151.35	7.57	0.00
Common Yellowthroat	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	151.35	7.57	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	151.37	7.59	0.00
Common Yellowthroat	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	151.40	7.61	0.00
Common Yellowthroat	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	151.42	7.64	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	151.58	7.80	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	151.65	7.87	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	151.68	7.90	0.00
Common Yellowthroat	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	151.75	7.96	0.00
Common Yellowthroat	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	151.78	8.00	0.00
Common Yellowthroat	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	151.80	8.02	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	8	151.83	8.05	0.00
Common Yellowthroat	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	151.85	8.07	0.00
Common Yellowthroat	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	151.88	8.10	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	151.91	8.13	0.00
Common Yellowthroat	p(observer) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	15	151.93	8.14	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	151.93	8.15	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(hii + Δtemp) + ε(1)	7	151.94	8.16	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	152.00	8.22	0.00
Common Yellowthroat	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	152.02	8.24	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	152.07	8.29	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	152.19	8.40	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	152.23	8.44	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	152.24	8.46	0.00
Common Yellowthroat	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	152.32	8.54	0.00
Common Yellowthroat	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	152.33	8.54	0.00
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(1)	12	411.97	0.00	0.05
Yellow Warbler	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	412.21	0.23	0.04
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	412.82	0.84	0.03
Yellow Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	413.08	1.11	0.03
Yellow Warbler	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	413.12	1.15	0.03
Yellow Warbler	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	413.29	1.32	0.02
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	413.40	1.42	0.02
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	413.40	1.43	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	413.43	1.46	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	15	413.70	1.72	0.02
Yellow Warbler	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	413.75	1.78	0.02
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	413.77	1.79	0.02
Yellow Warbler	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	413.99	2.02	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	413.99	2.02	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	414.06	2.08	0.02
Yellow Warbler	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	414.17	2.20	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	414.19	2.21	0.02
Yellow Warbler	p(observer) + ψ(1) + γ(hii) + ε(1)	13	414.22	2.24	0.01
Yellow Warbler	p(observer) + ψ(1) + γ(Δprecip) + ε(1)	13	414.32	2.35	0.01

Species	Model	k	AICc	ΔAICc	Weight
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	414.37	2.40	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	414.48	2.51	0.01
Yellow Warbler	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	414.52	2.54	0.01
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	414.74	2.77	0.01
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	414.80	2.83	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	414.91	2.93	0.01
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	415.00	3.02	0.01
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	415.05	3.08	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	415.19	3.21	0.01
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	415.21	3.23	0.01
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	415.22	3.24	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	415.22	3.25	0.01
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	415.25	3.27	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	415.29	3.31	0.01
Yellow Warbler	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	415.39	3.42	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	415.44	3.46	0.01
Yellow Warbler	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	415.48	3.50	0.01
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	415.59	3.61	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	415.72	3.75	0.01
Yellow Warbler	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	415.74	3.77	0.01
Yellow Warbler	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	415.75	3.78	0.01
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	415.76	3.78	0.01
Yellow Warbler	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	415.78	3.81	0.01
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	415.80	3.82	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	415.85	3.88	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	415.86	3.89	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	15	415.90	3.93	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	415.92	3.94	0.01
Yellow Warbler	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	415.95	3.98	0.01
Yellow Warbler	p(observer + date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	15	416.00	4.02	0.01
Yellow Warbler	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	416.11	4.14	0.01
Yellow Warbler	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	416.14	4.17	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	416.20	4.23	0.01
Yellow Warbler	p(observer + date) + ψ(1) + γ(hii + Δtemp) + ε(1)	15	416.39	4.42	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	416.51	4.54	0.00
Yellow Warbler	p(observer) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	15	416.53	4.55	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	416.55	4.57	0.00
Yellow Warbler	p(observer) + ψ(1) + γ(hii + Δprecip) + ε(1)	14	416.62	4.65	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	416.62	4.65	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	416.72	4.74	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	416.75	4.77	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	416.90	4.93	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	416.92	4.94	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	417.00	5.02	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	417.01	5.03	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	417.03	5.06	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(Δtemp) + ε(1)	7	417.05	5.07	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(1) + ε(1)	6	417.14	5.16	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	417.14	5.17	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	417.17	5.20	0.00

Species	Model	k	AICc	ΔAICc	Weight
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	417.26	5.29	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	417.28	5.31	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	417.35	5.37	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	417.38	5.41	0.00
Yellow Warbler	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	417.40	5.43	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	417.45	5.47	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	417.48	5.50	0.00
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	417.51	5.53	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	417.52	5.54	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	7	417.54	5.56	0.00
Yellow Warbler	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	417.55	5.58	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	417.56	5.58	0.00
Yellow Warbler	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	417.57	5.59	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	417.57	5.60	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(1) + ε(1)	6	417.60	5.62	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	417.64	5.66	0.00
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	417.64	5.66	0.00
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	417.66	5.68	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	417.66	5.69	0.00
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	417.67	5.70	0.00
Yellow Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	417.69	5.71	0.00
Yellow Warbler	p(date) + ψ(1) + γ(Δtemp) + ε(1)	6	417.69	5.72	0.00
Yellow Warbler	p(date) + ψ(1) + γ(1) + ε(1)	5	417.78	5.80	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	417.78	5.81	0.00
Yellow Warbler	p(date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	417.79	5.81	0.00
Yellow Warbler	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	417.87	5.89	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	417.90	5.93	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	417.91	5.94	0.00
Yellow Warbler	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	417.94	5.96	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	417.97	6.00	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	417.97	6.00	0.00
Yellow Warbler	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	418.01	6.04	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	418.03	6.05	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	418.05	6.08	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	418.12	6.15	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	418.16	6.19	0.00
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	418.21	6.24	0.00
Yellow Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	418.24	6.27	0.00
Yellow Warbler	p(date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	8	418.25	6.27	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	418.30	6.33	0.00
Yellow Warbler	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	418.33	6.36	0.00
Yellow Warbler	p(date) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	418.36	6.38	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	418.38	6.40	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	17	418.40	6.43	0.00
Yellow Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	418.43	6.46	0.00
Yellow Warbler	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	418.44	6.47	0.00
Yellow Warbler	p(observer + date) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	16	418.45	6.47	0.00
Yellow Warbler	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	418.47	6.50	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	418.48	6.51	0.00
Yellow Warbler	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	418.54	6.57	0.00

Species	Model	k	AICc	ΔAICc	Weight
Yellow Warbler	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	418.54	6.57	0.00
Yellow Warbler	p(date) + ψ(elevation) + γ(Δtemp) + ε(1)	7	418.58	6.60	0.00
Yellow Warbler	p(date) + ψ(elevation) + γ(1) + ε(1)	6	418.58	6.61	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	418.77	6.80	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	418.87	6.89	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	418.92	6.94	0.00
Yellow Warbler	p(date) + ψ(latitude) + γ(1) + ε(1)	6	418.99	7.01	0.00
Yellow Warbler	p(date) + ψ(latitude) + γ(Δtemp) + ε(1)	7	418.99	7.02	0.00
Yellow Warbler	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	418.99	7.02	0.00
Yellow Warbler	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	419.06	7.09	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	9	419.10	7.13	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	419.10	7.13	0.00
Yellow Warbler	p(date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	8	419.13	7.16	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(Δprecip) + ε(1)	7	419.24	7.26	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	419.24	7.26	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	419.29	7.32	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(hii) + ε(1)	7	419.30	7.33	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	419.32	7.35	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	419.34	7.37	0.00
Yellow Warbler	p(date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	7	419.39	7.42	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	419.49	7.51	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	419.49	7.52	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	419.51	7.54	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	9	419.51	7.54	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	419.53	7.55	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	419.54	7.57	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	419.55	7.58	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	419.63	7.66	0.00
Yellow Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	419.67	7.70	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	419.70	7.73	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	7	419.73	7.76	0.00
Yellow Warbler	p(1) + ψ(1) + γ(Δtemp) + ε(1)	5	419.73	7.76	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	8	419.74	7.76	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(hii) + ε(1)	7	419.76	7.78	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	419.76	7.78	0.00
Yellow Warbler	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	419.80	7.82	0.00
Yellow Warbler	p(date) + ψ(1) + γ(hii + Δtemp) + ε(1)	7	419.81	7.84	0.00
Yellow Warbler	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	419.82	7.85	0.00
Yellow Warbler	p(1) + ψ(1) + γ(1) + ε(1)	4	419.83	7.86	0.00
Yellow Warbler	p(date) + ψ(1) + γ(Δprecip) + ε(1)	6	419.84	7.87	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	419.86	7.88	0.00
Yellow Warbler	p(date) + ψ(1) + γ(hii) + ε(1)	6	419.89	7.91	0.00
Yellow Warbler	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	419.93	7.96	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	419.94	7.96	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	419.94	7.97	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	420.03	8.05	0.00
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	420.06	8.08	0.00
Yellow Warbler	p(date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	420.07	8.10	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	420.11	8.14	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	420.12	8.15	0.00

Species	Model	k	AICc	ΔAICc	Weight
Yellow Warbler	p(date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	420.13	8.15	0.00
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	420.14	8.16	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	420.15	8.18	0.00
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	380.33	0.00	0.12
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	380.53	0.20	0.10
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	382.08	1.75	0.05
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	382.16	1.84	0.05
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	382.41	2.08	0.04
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	382.52	2.20	0.04
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	382.53	2.20	0.04
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(hii) + ε(1)	7	382.61	2.29	0.04
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	382.66	2.33	0.04
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	382.70	2.37	0.04
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(1) + ε(1)	6	382.71	2.39	0.03
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(1) + ε(1)	6	382.97	2.64	0.03
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	384.21	3.88	0.02
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	384.26	3.93	0.02
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	384.30	3.97	0.02
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	384.33	4.00	0.02
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	384.37	4.04	0.02
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	384.38	4.05	0.02
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	384.38	4.06	0.02
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(Δprecip) + ε(1)	7	384.51	4.18	0.01
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	384.58	4.26	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	384.62	4.29	0.01
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(hii) + ε(1)	6	384.72	4.39	0.01
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(Δtemp) + ε(1)	7	384.75	4.42	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	384.76	4.43	0.01
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	384.77	4.44	0.01
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	384.82	4.49	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(hii) + ε(1)	8	384.86	4.54	0.01
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(1) + ε(1)	5	384.99	4.66	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	385.18	4.85	0.01
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	7	386.32	5.99	0.01

Species	Model	k	AICc	ΔAICc	Weight
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	386.34	6.01	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	386.46	6.14	0.01
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	386.48	6.15	0.01
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(Δprecip) + ε(1)	6	386.49	6.16	0.01
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	386.51	6.18	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	386.54	6.21	0.01
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	386.61	6.28	0.00
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	386.63	6.31	0.00
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	386.65	6.33	0.00
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(Δtemp) + ε(1)	6	386.74	6.41	0.00
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	8	386.75	6.43	0.00
Yellow-rumped Warbler (Audubon race)	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	386.77	6.44	0.00
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	7	386.84	6.51	0.00
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	8	386.99	6.66	0.00
Yellow-rumped Warbler (Audubon race)	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	387.02	6.69	0.00
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	387.06	6.73	0.00
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	387.12	6.80	0.00
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	7	388.43	8.10	0.00
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	8	388.53	8.21	0.00
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(hTemp) + γ(hii) + ε(1)	7	388.56	8.23	0.00
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	388.60	8.28	0.00
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	388.66	8.33	0.00
Yellow-rumped Warbler (Audubon race)	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	388.67	8.34	0.00
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	393.05	0.00	0.26
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	394.38	1.33	0.14
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	395.41	2.36	0.08
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	395.49	2.44	0.08
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	396.81	3.76	0.04
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	396.90	3.85	0.04
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	396.91	3.85	0.04
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(1) + ε(1)	6	397.67	4.62	0.03
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	397.72	4.67	0.03
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	397.94	4.88	0.02

Species	Model	k	AICc	ΔAICc	Weight
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	397.94	4.89	0.02
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	397.96	4.90	0.02
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	398.06	5.00	0.02
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	399.28	6.22	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	399.34	6.29	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	399.37	6.31	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	399.45	6.40	0.01
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	399.50	6.45	0.01
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	399.88	6.83	0.01
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	399.88	6.83	0.01
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	400.18	7.12	0.01
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	400.21	7.16	0.01
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	400.44	7.39	0.01
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	401.13	8.07	0.00
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	401.51	8.46	0.00
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	401.52	8.46	0.00
Black-throated Gray Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	401.52	8.47	0.00
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	401.57	8.51	0.00
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	401.75	8.69	0.00
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	401.75	8.70	0.00
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	401.92	8.87	0.00
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	402.12	9.07	0.00
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	402.69	9.64	0.00
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	244.56	0.00	0.16
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	245.07	0.51	0.12
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	245.68	1.12	0.09
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	246.16	1.60	0.07
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	247.34	2.79	0.04
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	247.56	3.00	0.04
Hermit Warbler	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	247.66	3.10	0.03
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	247.78	3.22	0.03
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	247.83	3.27	0.03
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	248.00	3.44	0.03
Hermit Warbler	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	248.49	3.93	0.02
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	248.69	4.13	0.02
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	248.75	4.19	0.02
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(1)	6	248.91	4.35	0.02
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	249.73	5.17	0.01

Species	Model	k	AICc	ΔAICc	Weight
Hermit Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	249.82	5.26	0.01
Hermit Warbler	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	249.85	5.29	0.01
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	249.91	5.35	0.01
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	250.05	5.49	0.01
Hermit Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	250.06	5.50	0.01
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	250.24	5.68	0.01
Hermit Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	250.25	5.69	0.01
Hermit Warbler	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	250.41	5.85	0.01
Hermit Warbler	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	250.56	6.00	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	250.71	6.15	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	250.74	6.18	0.01
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	250.79	6.23	0.01
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	250.90	6.34	0.01
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	251.02	6.46	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	251.12	6.56	0.01
Hermit Warbler	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	251.34	6.78	0.01
Hermit Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	251.58	7.02	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	251.59	7.03	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	251.63	7.07	0.00
Hermit Warbler	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	251.77	7.21	0.00
Hermit Warbler	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	251.82	7.26	0.00
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	251.86	7.30	0.00
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	251.91	7.35	0.00
Hermit Warbler	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	252.16	7.60	0.00
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	252.18	7.62	0.00
Hermit Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	252.24	7.68	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	252.32	7.77	0.00
Hermit Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	252.40	7.84	0.00
Hermit Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	252.53	7.97	0.00
Hermit Warbler	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	252.64	8.09	0.00
Hermit Warbler	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	252.66	8.10	0.00
Hermit Warbler	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	252.74	8.18	0.00
Hermit Warbler	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	252.77	8.21	0.00
Hermit Warbler	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	252.94	8.38	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	252.98	8.42	0.00
Hermit Warbler	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	253.03	8.47	0.00
Hermit Warbler	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	253.44	8.88	0.00
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	447.04	0.00	0.23
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	447.76	0.72	0.16
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	448.64	1.59	0.10
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	449.01	1.97	0.09
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	449.44	2.40	0.07
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	449.48	2.43	0.07
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	449.51	2.46	0.07
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	450.27	3.22	0.05
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	450.86	3.81	0.03
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	451.18	4.13	0.03
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	451.43	4.39	0.03
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	451.56	4.52	0.02
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	452.01	4.96	0.02

Species	Model	k	AICc	ΔAICc	Weight
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	253.85	0.00	0.12
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	254.31	0.46	0.09
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	255.04	1.19	0.07
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	255.10	1.25	0.06
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	255.46	1.61	0.05
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	255.71	1.86	0.05
Yellow-breasted Chat	p(observer) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	15	255.81	1.96	0.04
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	256.16	2.31	0.04
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	256.32	2.47	0.03
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	257.34	3.49	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	257.37	3.52	0.02
Yellow-breasted Chat	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	257.61	3.76	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	15	257.81	3.96	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	257.84	3.99	0.02
Yellow-breasted Chat	p(observer + date) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	16	258.02	4.17	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	258.09	4.24	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	258.27	4.42	0.01
Yellow-breasted Chat	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	258.37	4.52	0.01
Yellow-breasted Chat	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	258.37	4.52	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	258.41	4.56	0.01
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	258.55	4.71	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	258.66	4.81	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	258.79	4.94	0.01
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	258.80	4.95	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	258.85	5.00	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	259.06	5.21	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	259.42	5.57	0.01
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	259.43	5.58	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	259.74	5.89	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	259.79	5.94	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	259.93	6.08	0.01
Yellow-breasted Chat	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	259.97	6.12	0.01
Yellow-breasted Chat	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	260.11	6.26	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	260.15	6.30	0.01
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	260.17	6.32	0.01
Yellow-breasted Chat	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	260.25	6.40	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	260.42	6.57	0.00
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	260.44	6.59	0.00
Yellow-breasted Chat	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	260.46	6.61	0.00
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	260.62	6.77	0.00
Yellow-breasted Chat	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	260.62	6.77	0.00
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	260.71	6.86	0.00
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	260.78	6.93	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	260.84	6.99	0.00
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	260.90	7.06	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(hii) + ε(1)	13	260.99	7.14	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	261.16	7.31	0.00
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	261.17	7.32	0.00
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	261.20	7.35	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(hii + Δprecip) + ε(1)	14	261.20	7.35	0.00

Species	Model	k	AICc	ΔAICc	Weight
Yellow-breasted Chat	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	261.20	7.35	0.00
Yellow-breasted Chat	p(observer + date) + ψ(1) + γ(hii) + ε(1)	14	261.21	7.36	0.00
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	261.32	7.47	0.00
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	261.41	7.56	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(1)	12	261.47	7.62	0.00
Yellow-breasted Chat	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	261.59	7.74	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	261.61	7.76	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(Δtemp) + ε(1)	7	261.74	7.89	0.00
Yellow-breasted Chat	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	261.74	7.89	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	261.76	7.91	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	261.77	7.92	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	261.83	7.98	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(Δprecip) + ε(1)	13	261.88	8.03	0.00
Yellow-breasted Chat	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	261.97	8.12	0.00
Yellow-breasted Chat	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	262.18	8.33	0.00
Yellow-breasted Chat	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	262.23	8.38	0.00
Yellow-breasted Chat	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	262.30	8.45	0.00
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	262.43	8.58	0.00
Yellow-breasted Chat	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	262.48	8.63	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(1) + ε(1)	6	262.55	8.70	0.00
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	262.57	8.72	0.00
Yellow-breasted Chat	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	262.63	8.78	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(hii) + ε(1)	8	262.77	8.92	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	262.83	8.98	0.00
Yellow-breasted Chat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	262.92	9.07	0.00
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(Δtemp) + ε(1)	15	491.00	0.00	0.13
Spotted Towhee	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	492.52	1.52	0.06
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	492.65	1.65	0.06
Spotted Towhee	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	493.06	2.06	0.05
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	16	493.31	2.31	0.04
Spotted Towhee	p(observer + date) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	16	493.37	2.36	0.04
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	493.38	2.38	0.04
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	493.47	2.47	0.04
Spotted Towhee	p(observer + date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	15	493.78	2.78	0.03
Spotted Towhee	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	494.13	3.13	0.03
Spotted Towhee	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	494.33	3.33	0.03
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	494.42	3.41	0.02
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	494.46	3.46	0.02
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	494.52	3.52	0.02
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	15	494.87	3.87	0.02
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	494.87	3.87	0.02
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	495.03	4.03	0.02
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	495.09	4.09	0.02
Spotted Towhee	p(observer + date) + ψ(1) + γ(hii + Δtemp) + ε(1)	15	495.34	4.33	0.02
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	15	495.35	4.34	0.02
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	495.46	4.46	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	495.74	4.74	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	495.76	4.76	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	17	495.81	4.80	0.01
Spotted Towhee	p(date + era) + ψ(latitude) + γ(Δtemp) + ε(1)	8	495.83	4.83	0.01

Species	Model	k	AICc	ΔAICc	Weight
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	495.84	4.84	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	496.18	5.17	0.01
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	496.29	5.28	0.01
Spotted Towhee	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	496.48	5.47	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	496.49	5.49	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	496.76	5.76	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	496.83	5.82	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	496.85	5.84	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	18	497.02	6.02	0.01
Spotted Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	497.23	6.22	0.01
Spotted Towhee	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	497.26	6.26	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	497.33	6.33	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	497.40	6.39	0.01
Spotted Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	497.60	6.60	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	497.68	6.67	0.00
Spotted Towhee	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	497.75	6.75	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	497.93	6.93	0.00
Spotted Towhee	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	498.07	7.06	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	498.18	7.18	0.00
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	498.43	7.43	0.00
Spotted Towhee	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	498.60	7.60	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	498.68	7.67	0.00
Spotted Towhee	p(date + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	10	498.72	7.72	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	498.89	7.89	0.00
Spotted Towhee	p(date + era) + ψ(1) + γ(Δtemp) + ε(1)	7	498.99	7.99	0.00
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	499.13	8.12	0.00
Spotted Towhee	p(date + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	9	499.26	8.26	0.00
Spotted Towhee	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	499.45	8.45	0.00
Spotted Towhee	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	499.52	8.52	0.00
Spotted Towhee	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	499.52	8.52	0.00
Spotted Towhee	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	499.75	8.75	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	499.80	8.80	0.00
California Towhee	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	391.95	0.00	0.25
California Towhee	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	392.51	0.56	0.19
California Towhee	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	394.30	2.35	0.08
California Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	394.35	2.40	0.08
California Towhee	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	394.46	2.51	0.07
California Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	394.90	2.95	0.06
California Towhee	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	394.98	3.03	0.06
California Towhee	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	396.46	4.51	0.03
California Towhee	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	396.47	4.51	0.03
California Towhee	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	396.73	4.78	0.02
California Towhee	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	396.80	4.85	0.02
California Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	396.90	4.95	0.02
California Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	396.94	4.99	0.02
California Towhee	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	397.41	5.46	0.02
California Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	398.96	7.01	0.01
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	113.22	0.00	0.08
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(Δtemp) + ε(1)	6	113.96	0.74	0.06

Species	Model	k	AICc	ΔAICc	Weight
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	114.01	0.79	0.06
Rufous-crowned Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	114.79	1.57	0.04
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(Δtemp) + ε(1)	6	114.80	1.58	0.04
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	115.45	2.23	0.03
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	115.53	2.31	0.03
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(Δtemp) + ε(1)	7	115.59	2.37	0.03
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	115.63	2.41	0.03
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	115.92	2.70	0.02
Rufous-crowned Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	8	116.10	2.88	0.02
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	7	116.15	2.93	0.02
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	116.27	3.05	0.02
Rufous-crowned Sparrow	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	116.62	3.39	0.02
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(Δtemp) + ε(1)	6	116.70	3.48	0.01
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	116.71	3.49	0.01
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	116.74	3.52	0.01
Rufous-crowned Sparrow	p(1) + ψ(hPrecip) + γ(1) + ε(1)	5	116.82	3.60	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	116.88	3.66	0.01
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	117.33	4.11	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	117.41	4.19	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	117.47	4.24	0.01
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	117.53	4.31	0.01
Rufous-crowned Sparrow	p(1) + ψ(hPrecip) + γ(hii) + ε(1)	6	117.69	4.47	0.01
Rufous-crowned Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	117.71	4.49	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	117.75	4.53	0.01
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	8	117.78	4.56	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	117.84	4.62	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	117.90	4.68	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	117.91	4.68	0.01
Rufous-crowned Sparrow	p(date) + ψ(1) + γ(Δtemp) + ε(1)	6	117.99	4.77	0.01
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	118.05	4.83	0.01
Rufous-crowned Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	118.13	4.91	0.01
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	118.14	4.92	0.01
Rufous-crowned Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	118.15	4.93	0.01

Species	Model	k	AICc	ΔAICc	Weight
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(hii + Δtemp) + ε(1)	6	118.19	4.97	0.01
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	118.31	5.09	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	118.32	5.10	0.01
Rufous-crowned Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	9	118.35	5.13	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	118.45	5.23	0.01
Rufous-crowned Sparrow	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	118.54	5.32	0.01
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(hii) + ε(1)	6	118.60	5.38	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	118.60	5.38	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	9	118.60	5.38	0.01
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	6	118.62	5.40	0.01
Rufous-crowned Sparrow	p(1) + ψ(hPrecip) + γ(Δprecip) + ε(1)	6	118.63	5.40	0.01
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	118.65	5.43	0.01
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(1) + ε(1)	4	118.72	5.50	0.01
Rufous-crowned Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	118.77	5.55	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	118.78	5.56	0.01
Rufous-crowned Sparrow	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	118.84	5.62	0.01
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(1) + ε(1)	5	118.89	5.67	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	118.92	5.70	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	7	118.92	5.70	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	7	118.92	5.70	0.00
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	118.95	5.73	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	119.00	5.78	0.00
Rufous-crowned Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	7	119.05	5.83	0.00
Rufous-crowned Sparrow	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	119.12	5.90	0.00
Rufous-crowned Sparrow	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	119.27	6.05	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	119.44	6.22	0.00
Rufous-crowned Sparrow	p(1) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	7	119.55	6.33	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	119.57	6.35	0.00
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	119.59	6.37	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	119.64	6.42	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	119.69	6.47	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	119.70	6.48	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	119.70	6.48	0.00

Species	Model	k	AICc	ΔAICc	Weight
Rufous-crowned Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	119.71	6.49	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(1) + ε(1)	6	119.74	6.52	0.00
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(hii) + ε(1)	7	119.79	6.57	0.00
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(1) + ε(1)	6	119.80	6.58	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(1) + ε(1)	5	119.95	6.73	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	119.97	6.75	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	120.04	6.82	0.00
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	9	120.07	6.85	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	9	120.13	6.91	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	120.16	6.94	0.00
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(hii) + ε(1)	5	120.18	6.96	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	120.28	7.06	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	120.31	7.09	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	120.33	7.11	0.00
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(hii) + ε(1)	6	120.41	7.19	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	10	120.43	7.21	0.00
Rufous-crowned Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	120.46	7.24	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	120.55	7.33	0.00
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(Δprecip) + ε(1)	5	120.56	7.34	0.00
Rufous-crowned Sparrow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	120.58	7.36	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	120.61	7.39	0.00
Rufous-crowned Sparrow	p(1) + ψ(elevation) + γ(1) + ε(1)	5	120.61	7.39	0.00
Rufous-crowned Sparrow	p(date) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	7	120.62	7.40	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	9	120.66	7.44	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	7	120.68	7.46	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(hii) + ε(1)	7	120.69	7.47	0.00
Rufous-crowned Sparrow	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	120.77	7.55	0.00
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	120.80	7.58	0.00
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(Δprecip) + ε(1)	6	120.82	7.60	0.00
Rufous-crowned Sparrow	p(date) + ψ(1) + γ(1) + ε(1)	5	120.86	7.64	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	120.97	7.74	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	121.02	7.80	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	121.06	7.84	0.00

Species	Model	k	AICc	ΔAICc	Weight
Rufous-crowned Sparrow	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	121.08	7.86	0.00
Rufous-crowned Sparrow	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	121.13	7.91	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	121.13	7.91	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	121.14	7.92	0.00
Rufous-crowned Sparrow	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	121.18	7.95	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	121.32	8.10	0.00
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(hii) + ε(1)	7	121.34	8.12	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(hii) + ε(1)	6	121.37	8.15	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(hii) + ε(1)	7	121.43	8.21	0.00
Rufous-crowned Sparrow	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	121.61	8.39	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	121.66	8.44	0.00
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	121.70	8.48	0.00
Rufous-crowned Sparrow	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	121.71	8.49	0.00
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	121.72	8.50	0.00
Rufous-crowned Sparrow	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	121.74	8.51	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(Δprecip) + ε(1)	6	121.76	8.54	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	467.65	0.00	0.22
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	469.20	1.55	0.10
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	16	469.68	2.03	0.08
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	470.15	2.50	0.06
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	470.38	2.73	0.05
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	470.56	2.92	0.05
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	471.16	3.51	0.04
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	471.69	4.04	0.03
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	471.84	4.20	0.03
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	17	472.13	4.48	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	15	472.15	4.50	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	472.32	4.67	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	15	472.57	4.92	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	472.80	5.16	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	472.92	5.27	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	472.97	5.32	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	473.07	5.43	0.01
Chipping Sparrow	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	473.11	5.46	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	473.65	6.01	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	18	473.77	6.13	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	473.94	6.29	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	474.35	6.71	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	474.44	6.79	0.01
Chipping Sparrow	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	474.49	6.84	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	474.58	6.94	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	474.87	7.23	0.01

Species	Model	k	AICc	ΔAICc	Weight
Chipping Sparrow	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	474.93	7.29	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	475.00	7.36	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp) + ε(1)	16	475.10	7.45	0.01
Chipping Sparrow	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	475.29	7.64	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	475.34	7.69	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	475.35	7.70	0.00
Chipping Sparrow	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	475.37	7.73	0.00
Chipping Sparrow	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	475.50	7.85	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	475.52	7.87	0.00
Chipping Sparrow	p(date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	8	475.54	7.90	0.00
Chipping Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	475.96	8.31	0.00
Chipping Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	476.03	8.38	0.00
Chipping Sparrow	p(date + date^2) + ψ(latitude) + γ(Δtemp) + ε(1)	8	476.27	8.62	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	476.27	8.63	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	17	476.50	8.86	0.00
Chipping Sparrow	p(date + date^2) + ψ(latitude) + γ(hii) + ε(1)	8	476.67	9.02	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	476.91	9.27	0.00
Chipping Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	477.21	9.56	0.00
Chipping Sparrow	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	477.21	9.56	0.00
Chipping Sparrow	p(date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	9	477.21	9.57	0.00
Chipping Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	477.41	9.76	0.00
Chipping Sparrow	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	477.43	9.78	0.00
Chipping Sparrow	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	477.53	9.88	0.00
Lark Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	272.71	0.00	0.14
Lark Sparrow	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	272.77	0.05	0.13
Lark Sparrow	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	272.88	0.16	0.13
Lark Sparrow	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	274.70	1.98	0.05
Lark Sparrow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	274.79	2.07	0.05
Lark Sparrow	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	274.87	2.15	0.05
Lark Sparrow	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	274.88	2.17	0.05
Lark Sparrow	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	275.21	2.50	0.04
Lark Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	275.23	2.51	0.04
Lark Sparrow	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	275.24	2.53	0.04
Lark Sparrow	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	275.35	2.63	0.04
Lark Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	276.64	3.93	0.02
Lark Sparrow	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	277.06	4.35	0.02
Lark Sparrow	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	277.21	4.49	0.01
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	277.33	4.62	0.01
Lark Sparrow	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	277.34	4.62	0.01
Lark Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	277.37	4.65	0.01
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	277.37	4.65	0.01
Lark Sparrow	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	277.38	4.66	0.01
Lark Sparrow	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	277.39	4.68	0.01
Lark Sparrow	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	277.39	4.68	0.01
Lark Sparrow	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	277.72	5.01	0.01
Lark Sparrow	p(observer) + ψ(1) + γ(1) + ε(1)	12	278.03	5.31	0.01
Lark Sparrow	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	279.17	6.45	0.01
Lark Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	279.24	6.52	0.01
Lark Sparrow	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	279.62	6.90	0.00
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	279.62	6.90	0.00

Species	Model	k	AICc	ΔAICc	Weight
Lark Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	279.69	6.97	0.00
Lark Sparrow	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	279.75	7.03	0.00
Lark Sparrow	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	279.85	7.14	0.00
Lark Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	279.92	7.20	0.00
Lark Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	279.92	7.20	0.00
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	279.92	7.21	0.00
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	279.92	7.21	0.00
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	97.34	0.00	0.25
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	98.22	0.88	0.16
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	99.59	2.25	0.08
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	99.59	2.25	0.08
Savannah Sparrow	p(date + era) + ψ(1) + γ(1) + ε(1)	6	99.79	2.44	0.07
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	100.51	3.16	0.05
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	101.88	4.54	0.03
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	101.88	4.54	0.03
Savannah Sparrow	p(date + era) + ψ(1) + γ(hii) + ε(1)	7	102.00	4.66	0.02
Savannah Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	102.25	4.91	0.02
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	102.29	4.94	0.02
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	102.29	4.94	0.02
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	102.83	5.48	0.02
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	102.83	5.48	0.02
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	102.83	5.48	0.02
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	104.20	6.86	0.01
Savannah Sparrow	p(date + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	8	104.25	6.91	0.01
Savannah Sparrow	p(date + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	8	104.25	6.91	0.01
Savannah Sparrow	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	104.47	7.13	0.01
Savannah Sparrow	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	104.47	7.13	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	9	104.57	7.23	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	9	104.57	7.23	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	9	104.57	7.23	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	105.18	7.84	0.00
Savannah Sparrow	p(1) + ψ(elevation) + γ(1) + ε(1)	5	105.49	8.14	0.00
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(1)	5	123.89	0.00	0.09
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	125.18	1.29	0.05
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(1)	6	125.21	1.32	0.05
Fox Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	125.56	1.67	0.04
Fox Sparrow	p(1) + ψ(elevation) + γ(Δtemp) + ε(1)	6	125.71	1.82	0.04
Fox Sparrow	p(1) + ψ(elevation) + γ(hii) + ε(1)	6	125.85	1.96	0.03
Fox Sparrow	p(1) + ψ(elevation) + γ(Δprecip) + ε(1)	6	126.02	2.13	0.03
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	126.16	2.27	0.03
Fox Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	126.58	2.69	0.02
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	126.64	2.76	0.02
Fox Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	126.88	2.99	0.02
Fox Sparrow	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	127.04	3.15	0.02
Fox Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	127.10	3.21	0.02
Fox Sparrow	p(date) + ψ(elevation) + γ(Δtemp) + ε(1)	7	127.11	3.22	0.02
Fox Sparrow	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	127.18	3.29	0.02
Fox Sparrow	p(date) + ψ(elevation) + γ(hii) + ε(1)	7	127.24	3.35	0.02
Fox Sparrow	p(1) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	7	127.25	3.36	0.02
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	127.28	3.39	0.02

Species	Model	k	AICc	ΔAICc	Weight
Fox Sparrow	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	127.34	3.45	0.02
Fox Sparrow	p(1) + ψ(hTemp) + γ(Δtemp) + ε(1)	6	127.37	3.48	0.02
Fox Sparrow	p(date) + ψ(elevation) + γ(Δprecip) + ε(1)	7	127.38	3.49	0.02
Fox Sparrow	p(1) + ψ(hTemp) + γ(hii) + ε(1)	6	127.51	3.63	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	7	127.82	3.93	0.01
Fox Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	127.94	4.05	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	7	128.00	4.11	0.01
Fox Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	128.15	4.26	0.01
Fox Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	128.23	4.34	0.01
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	128.31	4.42	0.01
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	128.47	4.58	0.01
Fox Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	7	128.57	4.68	0.01
Fox Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	128.58	4.69	0.01
Fox Sparrow	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	128.61	4.72	0.01
Fox Sparrow	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	128.61	4.72	0.01
Fox Sparrow	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	128.63	4.74	0.01
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	128.63	4.74	0.01
Fox Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	128.65	4.76	0.01
Fox Sparrow	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	128.72	4.83	0.01
Fox Sparrow	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	128.72	4.83	0.01
Fox Sparrow	p(date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	128.74	4.85	0.01
Fox Sparrow	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	128.85	4.96	0.01
Fox Sparrow	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	128.87	4.98	0.01
Fox Sparrow	p(1) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	7	128.89	5.00	0.01
Fox Sparrow	p(date) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	128.94	5.05	0.01
Fox Sparrow	p(date) + ψ(hTemp) + γ(hii) + ε(1)	7	129.09	5.21	0.01
Fox Sparrow	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	129.18	5.29	0.01
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	8	129.24	5.35	0.01
Fox Sparrow	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	129.26	5.37	0.01
Fox Sparrow	p(date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	129.26	5.37	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	8	129.36	5.47	0.01
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(hii) + ε(1)	8	129.36	5.48	0.01
Fox Sparrow	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	129.37	5.48	0.01
Fox Sparrow	p(date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	129.43	5.54	0.01
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	8	129.49	5.60	0.01
Fox Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	129.70	5.81	0.00
Fox Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	129.96	6.07	0.00
Fox Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	130.17	6.28	0.00
Fox Sparrow	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	130.23	6.34	0.00
Fox Sparrow	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	130.28	6.39	0.00
Fox Sparrow	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	130.30	6.41	0.00
Fox Sparrow	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	130.31	6.42	0.00
Fox Sparrow	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	130.34	6.45	0.00
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	130.35	6.47	0.00
Fox Sparrow	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	130.39	6.50	0.00
Fox Sparrow	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	130.49	6.60	0.00
Fox Sparrow	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	130.50	6.61	0.00
Fox Sparrow	p(date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	130.50	6.61	0.00
Fox Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	8	130.56	6.67	0.00
Fox Sparrow	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	130.63	6.74	0.00

Species	Model	k	AICc	ΔAICc	Weight
Fox Sparrow	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	130.68	6.79	0.00
Fox Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	130.71	6.82	0.00
Fox Sparrow	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	130.77	6.88	0.00
Fox Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	130.77	6.88	0.00
Fox Sparrow	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	130.77	6.88	0.00
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	130.79	6.90	0.00
Fox Sparrow	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	130.80	6.91	0.00
Fox Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	130.81	6.92	0.00
Fox Sparrow	p(date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	130.89	7.00	0.00
Fox Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	130.91	7.02	0.00
Fox Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	130.93	7.04	0.00
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	130.94	7.05	0.00
Fox Sparrow	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	130.96	7.07	0.00
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	130.97	7.08	0.00
Fox Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	131.09	7.20	0.00
Fox Sparrow	p(date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	131.13	7.24	0.00
Fox Sparrow	p(date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	8	131.29	7.40	0.00
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	131.44	7.55	0.00
Fox Sparrow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	131.46	7.57	0.00
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	131.60	7.71	0.00
Fox Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	131.64	7.75	0.00
Fox Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	131.76	7.87	0.00
Fox Sparrow	p(1) + ψ(latitude) + γ(1) + ε(1)	5	131.82	7.93	0.00
Song Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	434.53	0.00	0.15
Song Sparrow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	434.88	0.35	0.13
Song Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	436.60	2.07	0.05
Song Sparrow	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	436.63	2.09	0.05
Song Sparrow	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	436.66	2.13	0.05
Song Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	436.74	2.20	0.05
Song Sparrow	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	436.91	2.38	0.05
Song Sparrow	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	436.99	2.46	0.04
Song Sparrow	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	437.02	2.48	0.04
Song Sparrow	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	437.09	2.56	0.04
Song Sparrow	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	438.53	4.00	0.02
Song Sparrow	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	438.72	4.18	0.02
Song Sparrow	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	438.78	4.24	0.02
Song Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	438.87	4.34	0.02
Song Sparrow	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	438.90	4.37	0.02
Song Sparrow	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	438.92	4.39	0.02
Song Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	438.95	4.41	0.02
Song Sparrow	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	438.98	4.44	0.02
Song Sparrow	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	438.99	4.45	0.02
Song Sparrow	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	439.03	4.49	0.02
Song Sparrow	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	439.10	4.57	0.02
Song Sparrow	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	439.11	4.58	0.02
Song Sparrow	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	439.27	4.73	0.01
Song Sparrow	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	439.42	4.88	0.01
Song Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	440.69	6.15	0.01
Song Sparrow	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	440.69	6.16	0.01
Song Sparrow	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	440.81	6.28	0.01

Species	Model	k	AICc	ΔAICc	Weight
Song Sparrow	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	441.06	6.52	0.01
Song Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	441.09	6.56	0.01
Song Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	441.10	6.57	0.01
Song Sparrow	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	441.11	6.58	0.01
Song Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	441.15	6.62	0.01
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	276.29	0.00	0.40
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	278.73	2.45	0.12
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	278.83	2.55	0.11
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	279.42	3.14	0.08
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	280.31	4.02	0.05
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	281.02	4.74	0.04
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	281.09	4.80	0.04
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	281.38	5.09	0.03
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	281.68	5.39	0.03
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	281.92	5.63	0.02
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	282.49	6.20	0.02
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	283.58	7.29	0.01
White-crowned Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	283.65	7.36	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	486.89	0.00	0.08
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	487.74	0.85	0.05
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	9	487.86	0.96	0.05
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	488.14	1.24	0.04
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	488.71	1.82	0.03
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	488.84	1.95	0.03
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	489.07	2.17	0.03
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	489.19	2.29	0.03
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	489.21	2.31	0.02
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	489.59	2.70	0.02
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(Δtemp) + ε(1)	7	489.90	3.01	0.02
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	489.98	3.09	0.02
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	10	490.11	3.22	0.02
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	490.18	3.29	0.02
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	490.20	3.31	0.02
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	490.25	3.35	0.01
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	490.25	3.35	0.01
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(Δtemp) + ε(1)	8	490.27	3.37	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(Δtemp) + ε(1)	8	490.39	3.49	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	490.41	3.52	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	490.42	3.52	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	490.43	3.54	0.01
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(1)	6	490.53	3.63	0.01
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	490.73	3.84	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	490.74	3.85	0.01
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	490.87	3.98	0.01
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	491.11	4.21	0.01
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	491.11	4.22	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(hii) + ε(1)	9	491.12	4.22	0.01
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	491.17	4.28	0.01
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	491.18	4.29	0.01
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	491.30	4.41	0.01

Species	Model	k	AICc	ΔAICc	Weight
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	491.31	4.41	0.01
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	491.31	4.42	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	491.41	4.52	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	491.54	4.64	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	491.73	4.83	0.01
Dark-Eyed Junco	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	491.79	4.89	0.01
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	491.85	4.96	0.01
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	491.86	4.97	0.01
Dark-Eyed Junco	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	491.99	5.09	0.01
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	8	492.05	5.16	0.01
Dark-Eyed Junco	p(era) + ψ(1) + γ(Δtemp) + ε(1)	6	492.39	5.50	0.01
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	492.40	5.50	0.01
Dark-Eyed Junco	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	492.42	5.53	0.00
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	9	492.46	5.57	0.00
Dark-Eyed Junco	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	492.51	5.62	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(1) + ε(1)	12	492.52	5.62	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp) + ε(1)	9	492.55	5.66	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp) + ε(1)	9	492.64	5.74	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	9	492.66	5.76	0.00
Dark-Eyed Junco	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	492.72	5.83	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	492.73	5.83	0.00
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	492.73	5.83	0.00
Dark-Eyed Junco	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	492.74	5.84	0.00
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	492.74	5.85	0.00
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	492.75	5.85	0.00
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	492.75	5.85	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	10	492.75	5.86	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	492.77	5.87	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	492.78	5.88	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	492.78	5.89	0.00
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	492.79	5.90	0.00
Dark-Eyed Junco	p(date + era) + ψ(1) + γ(Δtemp) + ε(1)	7	492.95	6.06	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	493.02	6.13	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	493.03	6.13	0.00
Dark-Eyed Junco	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	493.03	6.14	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	493.11	6.21	0.00
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	493.11	6.22	0.00
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	493.12	6.23	0.00
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	493.18	6.29	0.00
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(hii) + ε(1)	7	493.31	6.42	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	493.41	6.52	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	493.49	6.60	0.00
Dark-Eyed Junco	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	493.53	6.64	0.00
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(hii) + ε(1)	8	493.55	6.66	0.00
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	493.58	6.68	0.00
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	493.61	6.72	0.00
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	493.62	6.73	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	493.64	6.75	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	493.65	6.75	0.00
Dark-Eyed Junco	p(era) + ψ(1) + γ(1) + ε(1)	5	493.65	6.75	0.00

Species	Model	k	AICc	ΔAICc	Weight
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	493.65	6.75	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	493.66	6.77	0.00
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	493.68	6.78	0.00
Dark-Eyed Junco	p(date + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	10	493.94	7.04	0.00
Dark-Eyed Junco	p(date + era) + ψ(1) + γ(1) + ε(1)	6	494.03	7.13	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	494.07	7.18	0.00
Dark-Eyed Junco	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	494.12	7.23	0.00
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	494.16	7.26	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(hii + Δtemp) + ε(1)	14	494.21	7.31	0.00
Dark-Eyed Junco	p(observer + date) + ψ(1) + γ(Δtemp) + ε(1)	14	494.22	7.33	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	494.25	7.36	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	494.40	7.50	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(1) + γ(Δtemp) + ε(1)	15	494.43	7.53	0.00
Dark-Eyed Junco	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	494.45	7.55	0.00
Dark-Eyed Junco	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	494.45	7.56	0.00
Dark-Eyed Junco	p(era) + ψ(latitude) + γ(Δtemp) + ε(1)	7	494.51	7.61	0.00
Dark-Eyed Junco	p(era) + ψ(1) + γ(hii + Δtemp) + ε(1)	7	494.56	7.66	0.00
Dark-Eyed Junco	p(era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	7	494.60	7.71	0.00
Dark-Eyed Junco	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	494.72	7.82	0.00
Dark-Eyed Junco	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	494.75	7.86	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	494.76	7.87	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	10	494.84	7.94	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	494.85	7.96	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	494.86	7.97	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	494.88	7.98	0.00
Dark-Eyed Junco	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	494.90	8.00	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(Δprecip) + ε(1)	13	494.94	8.04	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(hii) + ε(1)	13	494.94	8.05	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	10	494.94	8.05	0.00
Dark-Eyed Junco	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	494.94	8.05	0.00
Dark-Eyed Junco	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	494.95	8.06	0.00
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	494.98	8.08	0.00
Dark-Eyed Junco	p(date + era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	9	495.00	8.11	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	495.09	8.19	0.00
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	478.55	0.00	0.35
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	480.20	1.64	0.15
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	480.24	1.69	0.15
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	480.88	2.33	0.11
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	481.05	2.50	0.10
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	482.58	4.02	0.05
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	482.65	4.09	0.05
Black-headed Grosbeak	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	590.86	0.00	0.73
Black-headed Grosbeak	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	598.26	7.39	0.02
Black-headed Grosbeak	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	598.52	7.66	0.02
Black-headed Grosbeak	p(observer) + ψ(1) + γ(Δprecip) + ε(1)	13	599.13	8.27	0.01
Black-headed Grosbeak	p(date + date^2 + era) + ψ(latitude) + γ(Δprecip) + ε(1)	9	599.41	8.55	0.01
Black-headed Grosbeak	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	600.31	9.44	0.01
Black-headed Grosbeak	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	600.34	9.47	0.01
Black-headed Grosbeak	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	600.34	9.48	0.01
Black-headed Grosbeak	p(date + date^2 + era) + ψ(1) + γ(Δprecip) + ε(1)	8	600.41	9.54	0.01

Species	Model	k	AICc	ΔAICc	Weight
Black-headed Grosbeak	p(observer) + ψ(1) + γ(hii + Δprecip) + ε(1)	14	600.67	9.81	0.01
Black-headed Grosbeak	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	600.73	9.87	0.01
Black-headed Grosbeak	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	10	600.83	9.96	0.01
Black-headed Grosbeak	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	600.84	9.98	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(1) + γ(Δprecip) + ε(1)	15	600.97	10.10	0.00
Black-headed Grosbeak	p(observer + date) + ψ(latitude) + γ(Δprecip) + ε(1)	15	601.02	10.16	0.00
Black-headed Grosbeak	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	601.03	10.17	0.00
Black-headed Grosbeak	p(era) + ψ(latitude) + γ(Δprecip) + ε(1)	7	601.15	10.29	0.00
Black-headed Grosbeak	p(observer) + ψ(1) + γ(1) + ε(1)	12	601.26	10.39	0.00
Black-headed Grosbeak	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	601.36	10.50	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	10	601.37	10.51	0.00
Black-headed Grosbeak	p(observer) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	14	601.57	10.71	0.00
Black-headed Grosbeak	p(observer + date) + ψ(1) + γ(Δprecip) + ε(1)	14	601.58	10.72	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(1) + γ(hii + Δprecip) + ε(1)	9	601.68	10.81	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	601.74	10.88	0.00
Black-headed Grosbeak	p(era) + ψ(1) + γ(Δprecip) + ε(1)	6	602.07	11.21	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	602.20	11.33	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	602.25	11.39	0.00
Black-headed Grosbeak	p(observer) + ψ(latitude) + γ(hii) + ε(1)	14	602.40	11.54	0.00
Black-headed Grosbeak	p(observer) + ψ(1) + γ(hii) + ε(1)	13	602.43	11.56	0.00
Black-headed Grosbeak	p(era) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	8	602.44	11.58	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	9	602.45	11.59	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	602.48	11.62	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	9	602.50	11.63	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	602.67	11.80	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	602.73	11.86	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	602.74	11.88	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	602.85	11.98	0.00
Black-headed Grosbeak	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	602.87	12.00	0.00
Black-headed Grosbeak	p(observer + date) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	16	602.89	12.02	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	602.90	12.03	0.00
Black-headed Grosbeak	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	602.95	12.09	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	11	603.02	12.16	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	603.14	12.28	0.00
Black-headed Grosbeak	p(observer + date) + ψ(1) + γ(hii + Δprecip) + ε(1)	15	603.15	12.29	0.00
Black-headed Grosbeak	p(era) + ψ(1) + γ(hii + Δprecip) + ε(1)	7	603.16	12.30	0.00
Black-headed Grosbeak	p(observer) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	15	603.17	12.31	0.00
Black-headed Grosbeak	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	603.21	12.34	0.00
Black-headed Grosbeak	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	603.23	12.36	0.00
Black-headed Grosbeak	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	603.23	12.36	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	603.29	12.43	0.00
Black-headed Grosbeak	p(era) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	8	603.30	12.44	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(latitude) + γ(hii) + ε(1)	9	603.32	12.45	0.00
Black-headed Grosbeak	p(observer + date + date^2) + ψ(1) + γ(Δtemp + Δprecip) + ε(1)	16	603.33	12.47	0.00
Black-headed Grosbeak	p(date + era) + ψ(latitude) + γ(Δprecip) + ε(1)	8	603.33	12.47	0.00
Black-headed Grosbeak	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	603.39	12.53	0.00
Black-headed Grosbeak	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	603.41	12.55	0.00
Black-headed Grosbeak	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	603.50	12.63	0.00
Black-headed Grosbeak	p(observer) + ψ(latitude) + γ(Δtemp) + ε(1)	14	603.50	12.64	0.00
Black-headed Grosbeak	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	603.59	12.72	0.00

Species	Model	k	AICc	ΔAICc	Weight
Black-headed Grosbeak	p(observer) + ψ(1) + γ(Δtemp) + ε(1)	13	603.61	12.75	0.00
Black-headed Grosbeak	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	603.67	12.81	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	603.68	12.81	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	10	603.74	12.88	0.00
Black-headed Grosbeak	p(date + date^2 + era) + ψ(1) + γ(hii) + ε(1)	8	603.77	12.90	0.00
Black-headed Grosbeak	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	603.84	12.98	0.00
Black-headed Grosbeak	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	603.85	12.99	0.00
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(hii + Δtemp + Δprecip) + ε(1)	17	428.70	0.00	0.46
Lazuli Bunting	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	18	431.03	2.34	0.14
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(hii + Δprecip) + ε(1)	16	431.10	2.40	0.14
Lazuli Bunting	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	432.36	3.66	0.07
Lazuli Bunting	p(observer + date + date^2) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	17	433.29	4.59	0.05
Lazuli Bunting	p(observer + date + date^2) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	17	433.57	4.87	0.04
Lazuli Bunting	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	434.58	5.88	0.02
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(hii) + ε(1)	15	435.65	6.95	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	436.59	7.89	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	282.45	0.00	0.34
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	285.00	2.55	0.10
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	285.00	2.55	0.10
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	285.00	2.55	0.10
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	286.86	4.40	0.04
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	287.01	4.56	0.03
Red-winged Blackbird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	287.29	4.84	0.03
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	287.59	5.13	0.03
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	287.60	5.15	0.03
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	287.60	5.15	0.03
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	287.74	5.29	0.02
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	288.42	5.97	0.02
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	289.45	7.00	0.01
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	289.52	7.07	0.01
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	289.52	7.07	0.01
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	289.52	7.07	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	289.84	7.39	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	289.84	7.39	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	290.22	7.77	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	290.29	7.84	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	290.29	7.84	0.01
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	290.33	7.87	0.01
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	290.69	8.23	0.01
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	290.71	8.25	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	291.48	9.03	0.00
Red-winged Blackbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	292.03	9.58	0.00
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	292.07	9.62	0.00
Western Meadowlark	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	391.91	0.00	0.16
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	392.05	0.14	0.15
Western Meadowlark	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	393.62	1.70	0.07
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	393.65	1.73	0.07
Western Meadowlark	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	394.36	2.45	0.05
Western Meadowlark	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	394.42	2.51	0.05
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	394.60	2.69	0.04

Species	Model	k	AICc	ΔAICc	Weight
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	394.60	2.69	0.04
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	394.81	2.89	0.04
Western Meadowlark	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	395.45	3.54	0.03
Western Meadowlark	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	395.65	3.74	0.02
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	395.70	3.78	0.02
Western Meadowlark	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	396.17	4.26	0.02
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	396.24	4.33	0.02
Western Meadowlark	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	396.76	4.84	0.01
Western Meadowlark	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	396.98	5.06	0.01
Western Meadowlark	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	397.04	5.13	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	397.19	5.28	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	397.22	5.31	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	397.30	5.38	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	397.36	5.44	0.01
Western Meadowlark	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	397.55	5.64	0.01
Western Meadowlark	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	398.00	6.09	0.01
Western Meadowlark	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	398.12	6.21	0.01
Western Meadowlark	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	398.12	6.21	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	398.29	6.38	0.01
Western Meadowlark	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	398.73	6.82	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(hPrecip) + γ(Δprecip) + ε(1)	16	398.75	6.84	0.01
Western Meadowlark	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	398.76	6.85	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	398.88	6.96	0.00
Western Meadowlark	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	398.88	6.97	0.00
Western Meadowlark	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	398.90	6.98	0.00
Western Meadowlark	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	398.95	7.04	0.00
Western Meadowlark	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	399.35	7.44	0.00
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	17	399.42	7.50	0.00
Western Meadowlark	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	399.55	7.64	0.00
Western Meadowlark	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	399.77	7.86	0.00
Western Meadowlark	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	399.89	7.97	0.00
Western Meadowlark	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	400.06	8.15	0.00
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	472.83	0.00	0.11
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(Δprecip) + ε(1)	14	472.94	0.12	0.10
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(Δtemp) + ε(1)	14	473.92	1.09	0.06
Brewer's Blackbird	p(era) + ψ(elevation) + γ(Δprecip) + ε(1)	7	474.23	1.40	0.05
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	15	474.37	1.54	0.05
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(hii) + ε(1)	14	474.97	2.14	0.04
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	15	475.17	2.34	0.03
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	475.29	2.46	0.03
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(1)	6	475.31	2.48	0.03
Brewer's Blackbird	p(era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	8	475.37	2.54	0.03
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(Δprecip) + ε(1)	15	475.44	2.61	0.03
Brewer's Blackbird	p(era) + ψ(elevation) + γ(Δtemp) + ε(1)	7	475.45	2.62	0.03
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(Δprecip) + ε(1)	8	475.96	3.13	0.02
Brewer's Blackbird	p(era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	8	476.14	3.31	0.02
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	15	476.21	3.38	0.02
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(Δtemp) + ε(1)	15	476.41	3.58	0.02
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	476.76	3.93	0.02
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	16	476.86	4.03	0.01

Species	Model	k	AICc	ΔAICc	Weight
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	16	476.87	4.04	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(Δtemp) + ε(1)	8	477.26	4.43	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	9	477.26	4.43	0.01
Brewer's Blackbird	p(era) + ψ(elevation) + γ(hii) + ε(1)	7	477.28	4.45	0.01
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	477.47	4.64	0.01
Brewer's Blackbird	p(era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	8	477.47	4.64	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	477.53	4.70	0.01
Brewer's Blackbird	p(era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	9	477.58	4.75	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(Δprecip) + ε(1)	16	477.67	4.84	0.01
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	477.71	4.88	0.01
Brewer's Blackbird	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	477.80	4.97	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	477.90	5.07	0.01
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(Δprecip) + ε(1)	9	478.06	5.23	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp) + ε(1)	16	478.59	5.76	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	478.75	5.92	0.01
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	478.75	5.92	0.01
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	478.76	5.93	0.01
Brewer's Blackbird	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	478.93	6.10	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	17	479.07	6.24	0.00
Brewer's Blackbird	p(era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	7	479.14	6.32	0.00
Brewer's Blackbird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	479.16	6.33	0.00
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	479.23	6.40	0.00
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp) + ε(1)	9	479.25	6.42	0.00
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(Δtemp + Δprecip) + ε(1)	10	479.35	6.53	0.00
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	479.41	6.58	0.00
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	479.49	6.66	0.00
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	479.73	6.90	0.00
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	480.00	7.17	0.00
Brewer's Blackbird	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	480.01	7.18	0.00
Brewer's Blackbird	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	480.01	7.18	0.00
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	480.05	7.22	0.00
Brewer's Blackbird	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	480.30	7.47	0.00
Brewer's Blackbird	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	480.31	7.48	0.00
Brewer's Blackbird	p(date + era) + ψ(hPrecip) + γ(Δprecip) + ε(1)	8	480.50	7.67	0.00
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	480.61	7.78	0.00
Brewer's Blackbird	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	480.65	7.82	0.00
Brown-headed Cowbird	p(era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	9	241.38	0.00	0.86
Brown-headed Cowbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	11	245.28	3.90	0.12
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	325.73	0.00	0.22
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	327.34	1.62	0.10
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	327.62	1.89	0.09
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	328.08	2.35	0.07
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	16	328.11	2.38	0.07
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	328.57	2.84	0.05
Bullock's Oriole	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	328.58	2.85	0.05
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	329.32	3.60	0.04
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	329.51	3.78	0.03
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	329.66	3.93	0.03
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	329.68	3.95	0.03
Bullock's Oriole	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	329.94	4.22	0.03

Species	Model	k	AICc	ΔAICc	Weight
Bullock's Oriole	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	330.22	4.49	0.02
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	17	330.48	4.76	0.02
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	330.63	4.91	0.02
Bullock's Oriole	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	330.84	5.11	0.02
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	331.04	5.32	0.02
Bullock's Oriole	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	331.17	5.45	0.01
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	331.53	5.81	0.01
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	331.75	6.03	0.01
Purple Finch	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	579.24	0.00	0.22
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	581.04	1.80	0.09
Purple Finch	p(era) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	8	581.11	1.86	0.09
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	581.39	2.15	0.08
Purple Finch	p(observer) + ψ(hPrecip) + γ(hii) + ε(1)	14	582.29	3.04	0.05
Purple Finch	p(era) + ψ(hPrecip) + γ(hii) + ε(1)	7	582.55	3.30	0.04
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	582.58	3.34	0.04
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	582.90	3.65	0.04
Purple Finch	p(date + era) + ψ(hPrecip) + γ(hii) + ε(1)	8	582.95	3.71	0.03
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	583.29	4.04	0.03
Purple Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	583.64	4.40	0.02
Purple Finch	p(date + date^2 + era) + ψ(hPrecip) + γ(hii) + ε(1)	9	583.67	4.43	0.02
Purple Finch	p(observer) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	15	583.75	4.50	0.02
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	16	584.11	4.87	0.02
Purple Finch	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	584.21	4.96	0.02
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	584.66	5.42	0.01
Purple Finch	p(observer) + ψ(hTemp) + γ(hii) + ε(1)	14	584.74	5.50	0.01
Purple Finch	p(era) + ψ(hPrecip) + γ(hii + Δprecip) + ε(1)	8	584.80	5.56	0.01
Purple Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	585.26	6.02	0.01
Purple Finch	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	585.36	6.12	0.01
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	585.94	6.69	0.01
Purple Finch	p(date + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	11	586.06	6.82	0.01
Purple Finch	p(observer + date + date^2) + ψ(hTemp) + γ(hii) + ε(1)	16	586.30	7.06	0.01
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	586.40	7.16	0.01
Purple Finch	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	586.43	7.19	0.01
Purple Finch	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	586.45	7.21	0.01
Purple Finch	p(observer) + ψ(hPrecip) + γ(Δprecip) + ε(1)	14	586.61	7.37	0.01
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	586.69	7.45	0.01
Purple Finch	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	586.81	7.57	0.01
Purple Finch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	12	586.86	7.62	0.00
Purple Finch	p(observer) + ψ(hTemp) + γ(hii + Δtemp) + ε(1)	15	586.98	7.73	0.00
Purple Finch	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	587.01	7.77	0.00
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(Δprecip) + ε(1)	15	587.10	7.85	0.00
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	587.17	7.92	0.00
House Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	503.55	0.00	0.41
House Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	504.38	0.83	0.27
House Finch	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	506.06	2.51	0.12
House Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	506.97	3.42	0.07
House Finch	p(observer) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	16	508.62	5.06	0.03
House Finch	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	508.81	5.26	0.03
House Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	509.65	6.10	0.02
Pine Siskin	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	382.34	0.00	0.36

Species	Model	k	AICc	ΔAICc	Weight
Pine Siskin	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	18	382.70	0.36	0.30
Pine Siskin	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	384.55	2.21	0.12
Pine Siskin	p(observer) + ψ(hTemp) + γ(Δtemp) + ε(1)	14	387.02	4.68	0.03
Pine Siskin	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	387.22	4.88	0.03
Pine Siskin	p(observer) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	17	388.13	5.79	0.02
Pine Siskin	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	388.67	6.33	0.02
Pine Siskin	p(observer + date) + ψ(hPrecip) + γ(hii) + ε(1)	15	388.89	6.55	0.01
Pine Siskin	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	389.16	6.82	0.01
Pine Siskin	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	389.29	6.95	0.01
Pine Siskin	p(observer + date) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	16	389.51	7.17	0.01
Pine Siskin	p(observer) + ψ(latitude) + γ(hii + Δprecip) + ε(1)	15	390.08	7.75	0.01
Pine Siskin	p(observer + date) + ψ(hTemp) + γ(hii) + ε(1)	15	390.22	7.88	0.01
Pine Siskin	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	390.44	8.11	0.01
Pine Siskin	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	390.89	8.55	0.00
Pine Siskin	p(observer + date + date^2) + ψ(hPrecip) + γ(hii) + ε(1)	16	390.92	8.58	0.00
Lesser Goldfinch	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	577.86	0.00	0.19
Lesser Goldfinch	p(observer + date) + ψ(hTemp) + γ(Δtemp) + ε(1)	15	578.67	0.81	0.13
Lesser Goldfinch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	578.80	0.95	0.12
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	579.03	1.17	0.11
Lesser Goldfinch	p(observer + date) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	16	579.31	1.45	0.09
Lesser Goldfinch	p(observer + date) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	17	579.73	1.87	0.07
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	579.82	1.96	0.07
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp) + γ(Δtemp) + ε(1)	16	580.08	2.22	0.06
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	17	580.49	2.64	0.05
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(Δtemp + Δprecip) + ε(1)	18	581.41	3.55	0.03
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(hii + Δtemp + Δprecip) + ε(1)	19	581.98	4.12	0.02
Lesser Goldfinch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	584.51	6.65	0.01
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	192.60	0.00	0.39
Lawrence's Goldfinch	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	193.71	1.11	0.22
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(Δprecip) + ε(1)	14	195.07	2.47	0.11
Lawrence's Goldfinch	p(observer + date) + ψ(latitude) + γ(hii) + ε(1)	15	196.22	3.62	0.06
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	15	197.58	4.98	0.03
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(hii + Δtemp) + ε(1)	15	197.58	4.98	0.03
Lawrence's Goldfinch	p(observer + date + date^2) + ψ(latitude) + γ(Δprecip) + ε(1)	16	198.36	5.76	0.02
Lawrence's Goldfinch	p(observer + date + date^2) + ψ(latitude) + γ(hii) + ε(1)	16	198.36	5.76	0.02
Lawrence's Goldfinch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	198.53	5.93	0.02
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	16	200.14	7.53	0.01
Lawrence's Goldfinch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	200.21	7.61	0.01
Lawrence's Goldfinch	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	200.48	7.87	0.01
Lawrence's Goldfinch	p(observer + date + date^2) + ψ(latitude) + γ(Δtemp + Δprecip) + ε(1)	17	200.96	8.35	0.01
Lawrence's Goldfinch	p(observer) + ψ(hTemp + hPrecip) + γ(hii) + ε(1)	15	201.04	8.44	0.01
Lawrence's Goldfinch	p(observer + date) + ψ(latitude) + γ(hii + Δtemp + Δprecip) + ε(1)	17	201.37	8.76	0.00
American Goldfinch	p(date + era) + ψ(elevation) + γ(hii) + ε(1)	8	357.96	0.00	0.21
American Goldfinch	p(date + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	9	358.36	0.40	0.17
American Goldfinch	p(date + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	10	359.08	1.11	0.12
American Goldfinch	p(date + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	9	360.08	2.12	0.07
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(hii) + ε(1)	9	360.22	2.26	0.07
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	10	360.66	2.70	0.05
American Goldfinch	p(observer + date) + ψ(elevation) + γ(hii) + ε(1)	15	360.73	2.77	0.05
American Goldfinch	p(observer + date) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	16	360.80	2.83	0.05

Species	Model	k	AICc	ΔAICc	Weight
American Goldfinch	p(observer + date) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	17	361.32	3.35	0.04
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	11	361.43	3.46	0.04
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	10	362.37	4.41	0.02
American Goldfinch	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δprecip) + ε(1)	17	362.61	4.65	0.02
American Goldfinch	p(observer + date + date^2) + ψ(elevation) + γ(hii) + ε(1)	16	362.71	4.75	0.02
American Goldfinch	p(observer + date) + ψ(elevation) + γ(hii + Δtemp) + ε(1)	16	363.17	5.21	0.02
American Goldfinch	p(observer + date + date^2) + ψ(elevation) + γ(hii + Δtemp + Δprecip) + ε(1)	18	363.20	5.24	0.02

APPENDIX 3:
The 95 Percent Confidence Model set (summed weights) of the 324 Models: Colonization (γ) was always parameterized as a constant probability, and extinction (ε) was either parameterized with covariates or with a constant probability

Species are listed in phylogenetic order, with models in ascending order of AICc, such that each species leads with its best-ranked model. Model abbreviations: hTemp = historic annual mean temperature; hPrecip = historic annual precipitation; Δtemp = modern minus historic annual mean temperature; Δprecip = modern minus historic annual precipitation; and hii = human influence index score (i.e., land use intensity).

Species	Model	k	AICc	ΔAICc	Weight
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	351.56	0.00	0.16
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(1)	6	352.27	0.71	0.11
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	353.56	1.99	0.06
Mountain Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	353.73	2.16	0.05
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	353.78	2.21	0.05
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	354.01	2.45	0.05
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	354.04	2.47	0.05
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	354.32	2.75	0.04
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	354.45	2.88	0.04
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	354.49	2.92	0.04
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	354.95	3.39	0.03
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	355.68	4.12	0.02
Mountain Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	355.70	4.13	0.02
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	355.75	4.18	0.02
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	355.80	4.24	0.02
Mountain Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	355.91	4.34	0.02
Mountain Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	356.22	4.66	0.02
Mountain Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	356.24	4.67	0.02
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	356.28	4.71	0.02
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	356.28	4.72	0.02
Mountain Quail	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	356.52	4.96	0.01
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	356.54	4.98	0.01
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	356.56	4.99	0.01
Mountain Quail	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	356.70	5.13	0.01
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	357.15	5.58	0.01
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	357.16	5.60	0.01
Mountain Quail	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	357.23	5.67	0.01
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	357.93	6.36	0.01
Mountain Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	357.94	6.37	0.01
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	357.96	6.40	0.01
Mountain Quail	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	358.03	6.47	0.01
Mountain Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	358.23	6.67	0.01

Species	Model	k	AICc	ΔAICc	Weight
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	507.80	0.00	0.21
California Quail	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	508.90	1.10	0.12
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	509.04	1.24	0.11
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	510.02	2.22	0.07
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	510.32	2.52	0.06
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	510.35	2.55	0.06
California Quail	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	510.39	2.58	0.06
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	511.28	3.48	0.04
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	511.29	3.49	0.04
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	511.38	3.58	0.03
California Quail	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	511.41	3.60	0.03
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	512.58	4.77	0.02
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	512.61	4.80	0.02
California Quail	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	512.64	4.84	0.02
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	512.91	5.11	0.02
California Quail	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	513.54	5.74	0.01
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	513.58	5.77	0.01
California Quail	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	513.65	5.85	0.01
California Quail	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	513.69	5.89	0.01
California Quail	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	513.76	5.96	0.01
California Quail	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	514.68	6.88	0.01
Turkey Vulture	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	644.12	0.00	0.09
Turkey Vulture	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	644.38	0.26	0.08
Turkey Vulture	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	644.50	0.38	0.07
Turkey Vulture	p(era) + ψ(elevation) + γ(1) + ε(1)	6	644.55	0.43	0.07
Turkey Vulture	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	644.60	0.48	0.07
Turkey Vulture	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	644.80	0.68	0.06
Turkey Vulture	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	646.28	2.16	0.03
Turkey Vulture	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	646.30	2.18	0.03
Turkey Vulture	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	646.33	2.21	0.03
Turkey Vulture	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	646.59	2.47	0.03
Turkey Vulture	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	646.61	2.48	0.03
Turkey Vulture	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	646.65	2.53	0.02
Turkey Vulture	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	646.68	2.56	0.02
Turkey Vulture	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	646.68	2.56	0.02
Turkey Vulture	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	646.76	2.64	0.02
Turkey Vulture	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	646.77	2.65	0.02
Turkey Vulture	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	646.81	2.69	0.02
Turkey Vulture	p(era) + ψ(1) + γ(1) + ε(hii)	6	647.55	3.43	0.02
Turkey Vulture	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	647.61	3.49	0.02
Turkey Vulture	p(era) + ψ(1) + γ(1) + ε(1)	5	647.66	3.54	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	647.71	3.58	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	648.04	3.92	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	648.11	3.99	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	648.35	4.23	0.01
Turkey Vulture	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	648.45	4.33	0.01
Turkey Vulture	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	648.51	4.38	0.01
Turkey Vulture	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	648.58	4.46	0.01
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	648.60	4.48	0.01
Turkey Vulture	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	648.78	4.66	0.01
Turkey Vulture	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	648.85	4.73	0.01

Species	Model	k	AICc	ΔAICc	Weight
Turkey Vulture	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	648.85	4.73	0.01
Turkey Vulture	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	648.92	4.80	0.01
Turkey Vulture	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	649.14	5.02	0.01
Turkey Vulture	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	649.56	5.44	0.01
Turkey Vulture	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	649.64	5.52	0.01
Turkey Vulture	p(date + era) + ψ(1) + γ(1) + ε(1)	6	649.64	5.52	0.01
Turkey Vulture	p(era) + ψ(1) + γ(1) + ε(Δprecip)	6	649.66	5.54	0.01
Turkey Vulture	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	649.72	5.60	0.01
Turkey Vulture	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	649.75	5.63	0.01
Turkey Vulture	p(era) + ψ(latitude) + γ(1) + ε(1)	6	649.77	5.65	0.01
Turkey Vulture	p(era) + ψ(1) + γ(1) + ε(Δtemp)	6	649.84	5.72	0.00
Turkey Vulture	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	649.86	5.74	0.00
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	649.99	5.87	0.00
Turkey Vulture	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	650.28	6.16	0.00
Turkey Vulture	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	650.32	6.19	0.00
Turkey Vulture	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	650.39	6.27	0.00
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	221.46	0.00	0.05
Cooper's Hawk	p(1) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	7	221.47	0.01	0.05
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	221.52	0.07	0.04
Cooper's Hawk	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	221.60	0.14	0.04
Cooper's Hawk	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	222.27	0.81	0.03
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	222.36	0.90	0.03
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	222.68	1.23	0.03
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	8	222.92	1.47	0.02
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	222.97	1.51	0.02
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	7	222.99	1.53	0.02
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	223.00	1.54	0.02
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	223.30	1.84	0.02
Cooper's Hawk	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	223.35	1.89	0.02
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	9	223.41	1.95	0.02
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	8	223.58	2.12	0.02
Cooper's Hawk	p(1) + ψ(elevation) + γ(1) + ε(1)	5	223.60	2.15	0.02
Cooper's Hawk	p(date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	223.61	2.15	0.02
Cooper's Hawk	p(1) + ψ(hTemp) + γ(1) + ε(hii)	6	223.67	2.21	0.02
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	8	223.72	2.26	0.02
Cooper's Hawk	p(1) + ψ(hTemp) + γ(1) + ε(Δtemp)	6	223.76	2.30	0.01
Cooper's Hawk	p(date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	223.76	2.30	0.01
Cooper's Hawk	p(1) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	7	223.79	2.34	0.01
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	223.84	2.39	0.01
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	223.88	2.43	0.01
Cooper's Hawk	p(1) + ψ(elevation) + γ(1) + ε(Δprecip)	6	223.93	2.47	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	224.21	2.75	0.01
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(1)	6	224.23	2.77	0.01
Cooper's Hawk	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	224.29	2.83	0.01
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	7	224.29	2.83	0.01
Cooper's Hawk	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	224.30	2.84	0.01
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	7	224.38	2.92	0.01
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	8	224.38	2.93	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	6	224.39	2.93	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(1) + ε(Δtemp)	5	224.54	3.08	0.01
Cooper's Hawk	p(1) + ψ(latitude) + γ(1) + ε(1)	5	224.54	3.08	0.01

Species	Model	k	AICc	ΔAICc	Weight
Cooper's Hawk	p(1) + ψ(latitude) + γ(1) + ε(Δtemp)	6	224.58	3.13	0.01
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(1) + ε(1)	5	224.64	3.18	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	8	224.66	3.21	0.01
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	8	225.05	3.59	0.01
Cooper's Hawk	p(1) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	7	225.07	3.62	0.01
Cooper's Hawk	p(1) + ψ(latitude) + γ(1) + ε(Δprecip)	6	225.11	3.65	0.01
Cooper's Hawk	p(date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	225.11	3.65	0.01
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	225.15	3.69	0.01
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	8	225.22	3.76	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(1) + ε(hii + Δtemp)	6	225.23	3.78	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	225.34	3.88	0.01
Cooper's Hawk	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	225.58	4.13	0.01
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(1) + ε(Δprecip)	6	225.67	4.21	0.01
Cooper's Hawk	p(1) + ψ(1) + γ(1) + ε(1)	4	225.69	4.23	0.01
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	225.70	4.24	0.01
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	225.71	4.26	0.01
Cooper's Hawk	p(date) + ψ(elevation) + γ(1) + ε(1)	6	225.72	4.27	0.01
Cooper's Hawk	p(1) + ψ(elevation) + γ(1) + ε(hii)	6	225.75	4.29	0.01
Cooper's Hawk	p(1) + ψ(elevation) + γ(1) + ε(Δtemp)	6	225.77	4.31	0.01
Cooper's Hawk	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	225.91	4.46	0.01
Cooper's Hawk	p(date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	225.92	4.47	0.00
Cooper's Hawk	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	7	226.01	4.55	0.00
Cooper's Hawk	p(date) + ψ(elevation) + γ(1) + ε(Δprecip)	7	226.02	4.56	0.00
Cooper's Hawk	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	8	226.04	4.58	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp)	8	226.04	4.59	0.00
Cooper's Hawk	p(1) + ψ(1) + γ(1) + ε(Δprecip)	5	226.11	4.65	0.00
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(hii)	7	226.13	4.67	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	226.14	4.68	0.00
Cooper's Hawk	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	226.17	4.71	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	226.17	4.71	0.00
Cooper's Hawk	p(date) + ψ(1) + γ(1) + ε(Δtemp)	6	226.22	4.76	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	226.22	4.76	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	226.32	4.86	0.00
Cooper's Hawk	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii)	8	226.33	4.88	0.00
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	8	226.37	4.92	0.00
Cooper's Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	8	226.40	4.94	0.00
Cooper's Hawk	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	226.42	4.96	0.00
Cooper's Hawk	p(date) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	226.50	5.05	0.00
Cooper's Hawk	p(date) + ψ(hTemp) + γ(1) + ε(hii)	7	226.50	5.05	0.00
Cooper's Hawk	p(1) + ψ(latitude) + γ(1) + ε(hii)	6	226.60	5.15	0.00
Cooper's Hawk	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	226.62	5.16	0.00
Cooper's Hawk	p(date) + ψ(latitude) + γ(1) + ε(1)	6	226.64	5.18	0.00
Cooper's Hawk	p(1) + ψ(hPrecip) + γ(1) + ε(hii)	6	226.70	5.24	0.00
Cooper's Hawk	p(era) + ψ(latitude) + γ(1) + ε(1)	6	226.71	5.26	0.00
Cooper's Hawk	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	226.77	5.31	0.00
Cooper's Hawk	p(date) + ψ(latitude) + γ(1) + ε(Δtemp)	7	226.80	5.34	0.00
Cooper's Hawk	p(date) + ψ(latitude) + γ(1) + ε(Δprecip)	7	227.17	5.71	0.00
Cooper's Hawk	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	227.31	5.85	0.00
Cooper's Hawk	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	227.56	6.10	0.00
Cooper's Hawk	p(1) + ψ(1) + γ(1) + ε(hii)	5	227.57	6.11	0.00
Cooper's Hawk	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	227.59	6.14	0.00

Species	Model	k	AICc	ΔAICc	Weight
Cooper's Hawk	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	227.67	6.21	0.00
Cooper's Hawk	p(date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	227.76	6.30	0.00
Cooper's Hawk	p(date) + ψ(1) + γ(1) + ε(1)	5	227.79	6.33	0.00
Cooper's Hawk	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	227.82	6.36	0.00
Cooper's Hawk	p(era) + ψ(1) + γ(1) + ε(1)	5	227.84	6.38	0.00
Cooper's Hawk	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	227.87	6.41	0.00
Cooper's Hawk	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	9	227.87	6.41	0.00
Cooper's Hawk	p(date) + ψ(elevation) + γ(1) + ε(hii)	7	227.89	6.44	0.00
Cooper's Hawk	p(date) + ψ(elevation) + γ(1) + ε(Δtemp)	7	227.92	6.47	0.00
Red-shouldered Hawk	p(1) + ψ(1) + γ(1) + ε(1)	4	222.70	0.00	0.19
Red-shouldered Hawk	p(date) + ψ(1) + γ(1) + ε(1)	5	224.82	2.12	0.07
Red-shouldered Hawk	p(1) + ψ(1) + γ(1) + ε(Δprecip)	5	224.85	2.15	0.07
Red-shouldered Hawk	p(1) + ψ(1) + γ(1) + ε(Δtemp)	5	224.85	2.15	0.07
Red-shouldered Hawk	p(1) + ψ(latitude) + γ(1) + ε(1)	5	224.85	2.15	0.07
Red-shouldered Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(1)	6	226.46	3.76	0.03
Red-shouldered Hawk	p(date) + ψ(1) + γ(1) + ε(Δprecip)	6	227.00	4.30	0.02
Red-shouldered Hawk	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	227.00	4.30	0.02
Red-shouldered Hawk	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	227.00	4.30	0.02
Red-shouldered Hawk	p(date) + ψ(latitude) + γ(1) + ε(1)	6	227.00	4.30	0.02
Red-shouldered Hawk	p(1) + ψ(1) + γ(1) + ε(hii + Δprecip)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(1) + γ(1) + ε(hii + Δtemp)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(hTemp) + γ(1) + ε(Δtemp)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(hTemp) + γ(1) + ε(hii)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(hPrecip) + γ(1) + ε(Δprecip)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(hPrecip) + γ(1) + ε(hii)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(elevation) + γ(1) + ε(Δtemp)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(latitude) + γ(1) + ε(Δprecip)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(latitude) + γ(1) + ε(Δtemp)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(1) + ψ(latitude) + γ(1) + ε(hii)	6	227.04	4.34	0.02
Red-shouldered Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	7	228.68	5.98	0.01
Red-shouldered Hawk	p(date + date^2) + ψ(1) + γ(1) + ε(hii)	7	228.68	5.98	0.01
Red-shouldered Hawk	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	228.68	5.98	0.01
Red-shouldered Hawk	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	228.68	5.98	0.01
Red-shouldered Hawk	p(date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(1) + γ(1) + ε(hii + Δtemp)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(elevation) + γ(1) + ε(Δprecip)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(elevation) + γ(1) + ε(hii)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(latitude) + γ(1) + ε(Δtemp)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(date) + ψ(latitude) + γ(1) + ε(hii)	7	229.22	6.52	0.01
Red-shouldered Hawk	p(1) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	7	229.25	6.55	0.01
Red-shouldered Hawk	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	7	229.25	6.55	0.01
Red-shouldered Hawk	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	7	229.25	6.55	0.01
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	580.84	0.00	0.18
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	581.42	0.58	0.13
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	582.77	1.93	0.07
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	583.05	2.20	0.06
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	583.12	2.28	0.06

Species	Model	k	AICc	ΔAICc	Weight
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	583.33	2.49	0.05
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	583.66	2.81	0.04
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	583.66	2.82	0.04
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	584.20	3.36	0.03
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(1)	6	584.52	3.67	0.03
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	584.79	3.95	0.02
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	585.02	4.17	0.02
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	585.08	4.24	0.02
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	585.37	4.52	0.02
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	585.39	4.55	0.02
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	585.60	4.76	0.02
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	585.61	4.77	0.02
Red-tailed Hawk	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	585.93	5.09	0.01
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	586.39	5.54	0.01
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	586.45	5.61	0.01
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	586.72	5.88	0.01
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	586.73	5.89	0.01
Red-tailed Hawk	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	587.19	6.34	0.01
Red-tailed Hawk	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	587.21	6.37	0.01
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	587.35	6.50	0.01
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	587.35	6.50	0.01
Red-tailed Hawk	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	587.59	6.75	0.01
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	587.72	6.88	0.01
Red-tailed Hawk	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	587.75	6.90	0.01
Red-tailed Hawk	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	587.90	7.06	0.01
Red-tailed Hawk	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	587.91	7.07	0.01
Red-tailed Hawk	p(date + era) + ψ(1) + γ(1) + ε(1)	6	588.30	7.45	0.00
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	588.66	7.82	0.00
Red-tailed Hawk	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	588.97	8.13	0.00
Red-tailed Hawk	p(date) + ψ(latitude) + γ(1) + ε(Δprecip)	7	589.42	8.58	0.00
Red-tailed Hawk	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	589.52	8.67	0.00
Red-tailed Hawk	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	589.72	8.87	0.00
Red-tailed Hawk	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	589.72	8.88	0.00
American Kestrel	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	372.32	0.00	0.18
American Kestrel	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	372.44	0.12	0.17
American Kestrel	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	373.22	0.90	0.11
American Kestrel	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	373.28	0.97	0.11
American Kestrel	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	374.15	1.84	0.07
American Kestrel	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	374.72	2.41	0.05
American Kestrel	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	375.88	3.56	0.03
American Kestrel	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	375.91	3.59	0.03
American Kestrel	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	375.99	3.67	0.03
American Kestrel	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	375.99	3.68	0.03
American Kestrel	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	376.74	4.42	0.02
American Kestrel	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	376.75	4.43	0.02
American Kestrel	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	377.13	4.81	0.02
American Kestrel	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp)	14	377.15	4.83	0.02
American Kestrel	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	377.67	5.36	0.01
American Kestrel	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	377.77	5.45	0.01
American Kestrel	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	377.98	5.67	0.01
American Kestrel	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	378.45	6.13	0.01

Species	Model	k	AICc	ΔAICc	Weight
American Kestrel	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	378.50	6.18	0.01
American Kestrel	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	378.62	6.30	0.01
American Kestrel	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	378.84	6.52	0.01
American Kestrel	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	379.00	6.68	0.01
American Kestrel	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	379.09	6.77	0.01
American Kestrel	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	379.80	7.48	0.00
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	312.64	0.00	0.07
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	313.38	0.74	0.05
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	313.42	0.77	0.05
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	313.46	0.82	0.05
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	313.48	0.84	0.05
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	313.51	0.87	0.05
Killdeer	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	313.75	1.11	0.04
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	313.82	1.18	0.04
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	314.12	1.48	0.03
Killdeer	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	314.16	1.52	0.03
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	314.29	1.64	0.03
Killdeer	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	314.48	1.83	0.03
Killdeer	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	314.62	1.98	0.03
Killdeer	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	15	315.19	2.55	0.02
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	315.32	2.68	0.02
Killdeer	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	17	315.53	2.88	0.02
Killdeer	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	315.63	2.98	0.02
Killdeer	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	315.64	3.00	0.02
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	315.66	3.02	0.02
Killdeer	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	315.67	3.03	0.02
Killdeer	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	315.78	3.14	0.01
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	315.80	3.16	0.01
Killdeer	p(observer) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	14	315.81	3.16	0.01
Killdeer	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	315.84	3.20	0.01
Killdeer	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	315.85	3.20	0.01
Killdeer	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	315.93	3.29	0.01
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	316.00	3.36	0.01
Killdeer	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	316.10	3.46	0.01
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	316.17	3.53	0.01
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	316.55	3.90	0.01
Killdeer	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	316.60	3.96	0.01
Killdeer	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	316.92	4.27	0.01
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	317.02	4.37	0.01
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	317.15	4.50	0.01
Killdeer	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	317.45	4.81	0.01
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	317.48	4.84	0.01
Killdeer	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	317.52	4.88	0.01
Killdeer	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	16	317.59	4.94	0.01
Killdeer	p(observer) + ψ(1) + γ(1) + ε(1)	12	317.74	5.09	0.01
Killdeer	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	317.83	5.18	0.01
Killdeer	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	317.86	5.22	0.01
Killdeer	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	317.86	5.22	0.01
Killdeer	p(observer) + ψ(1) + γ(1) + ε(hii + Δprecip)	14	318.01	5.36	0.00
Killdeer	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	318.08	5.44	0.00
Killdeer	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	318.16	5.51	0.00

Species	Model	k	AICc	ΔAICc	Weight
Killdeer	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	318.17	5.53	0.00
Killdeer	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	318.22	5.57	0.00
Killdeer	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	318.23	5.59	0.00
Killdeer	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	318.26	5.62	0.00
Killdeer	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	318.30	5.66	0.00
Killdeer	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	318.31	5.67	0.00
Killdeer	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	318.33	5.69	0.00
Killdeer	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	318.38	5.74	0.00
Killdeer	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	318.41	5.76	0.00
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	318.42	5.78	0.00
Killdeer	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	318.45	5.81	0.00
Killdeer	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	318.47	5.82	0.00
Killdeer	p(observer) + ψ(1) + γ(1) + ε(Δprecip)	13	318.75	6.11	0.00
Killdeer	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	318.99	6.34	0.00
Killdeer	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	319.02	6.38	0.00
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(1)	6	205.87	0.00	0.17
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	207.60	1.73	0.07
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	207.64	1.78	0.07
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	207.72	1.85	0.07
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	207.74	1.88	0.07
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	208.77	2.91	0.04
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	208.86	3.00	0.04
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	208.97	3.10	0.04
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	209.46	3.60	0.03
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	209.56	3.70	0.03
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	209.61	3.74	0.03
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	209.62	3.76	0.03
Spotted Sandpiper	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	209.85	3.99	0.02
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(1)	6	210.57	4.70	0.02
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	210.59	4.72	0.02
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	210.68	4.81	0.02
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	210.71	4.84	0.02
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	210.86	5.00	0.01
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	210.96	5.10	0.01
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	211.82	5.95	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	211.83	5.96	0.01
Spotted Sandpiper	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	211.90	6.04	0.01
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	211.90	6.04	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	211.92	6.05	0.01
Spotted Sandpiper	p(era) + ψ(1) + γ(1) + ε(1)	5	211.93	6.06	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	212.07	6.21	0.01
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	212.38	6.51	0.01
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	212.50	6.63	0.01
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	212.74	6.87	0.01
Spotted Sandpiper	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	213.00	7.14	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	213.36	7.49	0.00
Spotted Sandpiper	p(date + era) + ψ(1) + γ(1) + ε(1)	6	213.37	7.50	0.00
Spotted Sandpiper	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	213.46	7.59	0.00
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	213.49	7.62	0.00
Spotted Sandpiper	p(era) + ψ(1) + γ(1) + ε(Δtemp)	6	213.49	7.63	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	213.58	7.71	0.00

Species	Model	k	AICc	ΔAICc	Weight
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	213.64	7.77	0.00
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	213.66	7.80	0.00
Spotted Sandpiper	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	213.70	7.84	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	213.74	7.87	0.00
Spotted Sandpiper	p(era) + ψ(1) + γ(1) + ε(Δprecip)	6	213.74	7.87	0.00
Spotted Sandpiper	p(era) + ψ(1) + γ(1) + ε(hii)	6	213.75	7.88	0.00
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	213.79	7.93	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	213.80	7.94	0.00
Spotted Sandpiper	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	214.09	8.22	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	214.39	8.53	0.00
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	214.48	8.61	0.00
Spotted Sandpiper	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp)	7	214.56	8.69	0.00
Spotted Sandpiper	p(era) + ψ(1) + γ(1) + ε(hii + Δprecip)	7	214.92	9.05	0.00
Spotted Sandpiper	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	214.95	9.08	0.00
Spotted Sandpiper	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	215.05	9.18	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	215.07	9.21	0.00
Spotted Sandpiper	p(date + era) + ψ(1) + γ(1) + ε(Δtemp)	7	215.15	9.28	0.00
Spotted Sandpiper	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	215.21	9.35	0.00
Spotted Sandpiper	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	215.23	9.36	0.00
Band-tailed Pigeon	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	419.38	0.00	0.22
Band-tailed Pigeon	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	419.96	0.58	0.16
Band-tailed Pigeon	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	420.70	1.33	0.11
Band-tailed Pigeon	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	421.05	1.68	0.09
Band-tailed Pigeon	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	421.38	2.01	0.08
Band-tailed Pigeon	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	421.44	2.06	0.08
Band-tailed Pigeon	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	421.66	2.29	0.07
Band-tailed Pigeon	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	422.75	3.38	0.04
Band-tailed Pigeon	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	423.02	3.65	0.04
Band-tailed Pigeon	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	423.37	4.00	0.03
Band-tailed Pigeon	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	423.85	4.47	0.02
Band-tailed Pigeon	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	426.24	6.87	0.01
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	556.15	0.00	0.25
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	556.50	0.35	0.21
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	557.59	1.44	0.12
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	558.55	2.41	0.08
Mourning Dove	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	558.72	2.57	0.07
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	559.79	3.65	0.04
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	559.80	3.65	0.04
Mourning Dove	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	561.10	4.95	0.02
Mourning Dove	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	561.13	4.99	0.02
Mourning Dove	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	561.70	5.55	0.02
Mourning Dove	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	562.48	6.33	0.01
Mourning Dove	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	562.80	6.65	0.01
Mourning Dove	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	563.00	6.85	0.01
Mourning Dove	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	563.11	6.96	0.01
Mourning Dove	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	563.51	7.36	0.01
Mourning Dove	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	563.53	7.38	0.01
Mourning Dove	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	563.57	7.42	0.01
Mourning Dove	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	563.58	7.44	0.01
Mourning Dove	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	563.68	7.54	0.01
Mourning Dove	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	564.11	7.96	0.00

Species	Model	k	AICc	ΔAICc	Weight
Vaux's Swift	p(1) + ψ(elevation) + γ(1) + ε(hii)	6	151.40	0.00	0.17
Vaux's Swift	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	152.37	0.98	0.10
Vaux's Swift	p(1) + ψ(latitude) + γ(1) + ε(hii)	6	152.60	1.21	0.09
Vaux's Swift	p(date) + ψ(elevation) + γ(1) + ε(hii)	7	153.16	1.76	0.07
Vaux's Swift	p(1) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	7	153.61	2.22	0.05
Vaux's Swift	p(date) + ψ(latitude) + γ(1) + ε(hii)	7	153.74	2.34	0.05
Vaux's Swift	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	7	154.00	2.61	0.05
Vaux's Swift	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	154.19	2.79	0.04
Vaux's Swift	p(1) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	7	154.90	3.51	0.03
Vaux's Swift	p(1) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	7	155.13	3.73	0.03
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii)	8	155.27	3.88	0.02
Vaux's Swift	p(date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	155.41	4.01	0.02
Vaux's Swift	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	155.76	4.36	0.02
Vaux's Swift	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii)	8	155.81	4.41	0.02
Vaux's Swift	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	155.92	4.53	0.02
Vaux's Swift	p(date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	155.99	4.59	0.02
Vaux's Swift	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	156.10	4.71	0.02
Vaux's Swift	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	8	156.26	4.86	0.01
Vaux's Swift	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	156.28	4.89	0.01
Vaux's Swift	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	156.56	5.16	0.01
Vaux's Swift	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	156.78	5.39	0.01
Vaux's Swift	p(1) + ψ(1) + γ(1) + ε(hii)	5	157.33	5.93	0.01
Vaux's Swift	p(1) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	8	157.38	5.98	0.01
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	157.56	6.16	0.01
Vaux's Swift	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	158.17	6.77	0.01
Vaux's Swift	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	158.20	6.80	0.01
Vaux's Swift	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	158.35	6.96	0.01
Vaux's Swift	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	158.41	7.01	0.00
Vaux's Swift	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	158.43	7.03	0.00
Vaux's Swift	p(1) + ψ(hTemp) + γ(1) + ε(hii)	6	158.49	7.09	0.00
Vaux's Swift	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	158.50	7.10	0.00
Vaux's Swift	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	158.52	7.12	0.00
Vaux's Swift	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	158.64	7.25	0.00
Vaux's Swift	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	158.65	7.26	0.00
Vaux's Swift	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	158.65	7.26	0.00
Vaux's Swift	p(date) + ψ(1) + γ(1) + ε(hii)	6	158.78	7.38	0.00
Vaux's Swift	p(1) + ψ(hPrecip) + γ(1) + ε(hii)	6	158.95	7.56	0.00
Vaux's Swift	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	159.33	7.94	0.00
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	139.46	0.00	0.18
White-throated Swift	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	139.62	0.16	0.16
White-throated Swift	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	141.22	1.76	0.07
White-throated Swift	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	141.28	1.82	0.07
White-throated Swift	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	141.67	2.21	0.06
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	142.45	2.99	0.04
White-throated Swift	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	142.56	3.10	0.04
White-throated Swift	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	142.61	3.14	0.04
White-throated Swift	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	142.72	3.25	0.04
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	143.36	3.89	0.03
White-throated Swift	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	143.50	4.04	0.02
White-throated Swift	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	143.54	4.07	0.02
White-throated Swift	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	143.82	4.36	0.02

Species	Model	k	AICc	ΔAICc	Weight
White-throated Swift	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	144.00	4.53	0.02
White-throated Swift	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	144.04	4.58	0.02
White-throated Swift	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	144.53	5.06	0.01
White-throated Swift	p(1) + ψ(hPrecip) + γ(1) + ε(1)	5	144.66	5.20	0.01
White-throated Swift	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	145.06	5.60	0.01
White-throated Swift	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	145.70	6.23	0.01
White-throated Swift	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	145.72	6.26	0.01
White-throated Swift	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	145.72	6.26	0.01
White-throated Swift	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	145.86	6.39	0.01
White-throated Swift	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	145.94	6.48	0.01
White-throated Swift	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	146.07	6.60	0.01
White-throated Swift	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	146.18	6.72	0.01
White-throated Swift	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	146.46	6.99	0.01
White-throated Swift	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	146.76	7.29	0.00
White-throated Swift	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	146.81	7.35	0.00
White-throated Swift	p(1) + ψ(hPrecip) + γ(1) + ε(Δprecip)	6	146.85	7.38	0.00
White-throated Swift	p(1) + ψ(hPrecip) + γ(1) + ε(hii)	6	146.85	7.38	0.00
White-throated Swift	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	146.89	7.43	0.00
White-throated Swift	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	147.37	7.91	0.00
White-throated Swift	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	147.44	7.98	0.00
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	462.43	0.00	0.33
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	463.72	1.29	0.17
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	463.83	1.41	0.16
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	465.17	2.74	0.08
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	466.20	3.77	0.05
Anna's Hummingbird	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	466.42	3.99	0.04
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	467.57	5.14	0.03
Anna's Hummingbird	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	467.81	5.38	0.02
Anna's Hummingbird	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	467.89	5.46	0.02
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	468.22	5.79	0.02
Anna's Hummingbird	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	468.41	5.98	0.02
Anna's Hummingbird	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	469.65	7.22	0.01
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	446.39	0.00	0.33
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	447.41	1.03	0.20
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	448.52	2.13	0.11
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	450.35	3.96	0.05
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	450.74	4.35	0.04
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	450.96	4.57	0.03
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp)	15	451.41	5.02	0.03
Allen's Hummingbird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	452.54	6.15	0.02
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	452.55	6.16	0.02
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	452.61	6.23	0.01
Allen's Hummingbird	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	16	452.84	6.45	0.01
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	452.96	6.57	0.01
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	453.07	6.68	0.01
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	453.45	7.06	0.01
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	453.45	7.06	0.01
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	453.54	7.15	0.01
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	453.94	7.55	0.01
Allen's Hummingbird	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	453.96	7.57	0.01
Allen's Hummingbird	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	454.37	7.98	0.01

Species	Model	k	AICc	ΔAICc	Weight
Allen's Hummingbird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	454.67	8.28	0.01
Allen's Hummingbird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	454.82	8.43	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	454.98	8.59	0.00
Allen's Hummingbird	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	455.06	8.67	0.00
Allen's Hummingbird	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	455.11	8.72	0.00
Allen's Hummingbird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	455.17	8.78	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	455.26	8.87	0.00
Allen's Hummingbird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	455.43	9.04	0.00
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	255.64	0.00	0.17
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	255.93	0.29	0.15
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	257.24	1.60	0.08
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	257.73	2.09	0.06
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(1)	6	257.83	2.19	0.06
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	257.83	2.19	0.06
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	257.90	2.26	0.06
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	257.92	2.28	0.06
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	258.15	2.51	0.05
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	258.93	3.30	0.03
Belted Kingfisher	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	259.21	3.57	0.03
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	259.78	4.14	0.02
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	259.95	4.31	0.02
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	259.97	4.33	0.02
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	260.02	4.38	0.02
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	260.15	4.52	0.02
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	260.17	4.53	0.02
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	261.00	5.36	0.01
Belted Kingfisher	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	261.19	5.55	0.01
Belted Kingfisher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	262.01	6.37	0.01
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	470.58	0.00	0.26
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	472.18	1.59	0.12
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	472.50	1.92	0.10
Acorn Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	472.64	2.06	0.09
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	473.02	2.44	0.08
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	474.10	3.52	0.05
Acorn Woodpecker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	474.24	3.65	0.04
Acorn Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	474.35	3.76	0.04
Acorn Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	474.55	3.97	0.04
Acorn Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	474.59	4.01	0.04
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	474.98	4.40	0.03
Acorn Woodpecker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	475.92	5.33	0.02
Acorn Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	476.30	5.72	0.01
Acorn Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	476.38	5.80	0.01
Acorn Woodpecker	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	476.52	5.93	0.01
Acorn Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	476.75	6.17	0.01
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	151.26	0.00	0.46
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	151.94	0.67	0.33
Red-breasted Sapsucker	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	156.48	5.21	0.03
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	157.17	5.90	0.02
Red-breasted Sapsucker	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	157.63	6.36	0.02
Red-breasted Sapsucker	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	157.67	6.40	0.02
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	158.00	6.74	0.02

Species	Model	k	AICc	ΔAICc	Weight
Red-breasted Sapsucker	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	159.15	7.89	0.01
Red-breasted Sapsucker	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	159.18	7.92	0.01
Red-breasted Sapsucker	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	159.69	8.42	0.01
Red-breasted Sapsucker	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	159.76	8.49	0.01
Red-breasted Sapsucker	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	160.10	8.83	0.01
Red-breasted Sapsucker	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	160.18	8.91	0.01
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	160.55	9.29	0.00
Red-breasted Sapsucker	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	160.55	9.29	0.00
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	339.09	0.00	0.37
Nuttall's Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	340.38	1.28	0.20
Nuttall's Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	341.57	2.47	0.11
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	341.59	2.50	0.11
Nuttall's Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	342.96	3.87	0.05
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	343.90	4.80	0.03
Nuttall's Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	344.11	5.02	0.03
Nuttall's Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	344.79	5.70	0.02
Nuttall's Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	345.43	6.34	0.02
Nuttall's Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	346.43	7.33	0.01
Nuttall's Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	346.43	7.33	0.01
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	415.21	0.00	0.16
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	415.44	0.23	0.14
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	415.88	0.67	0.11
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	416.06	0.85	0.10
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	416.15	0.95	0.10
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	416.56	1.35	0.08
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	416.86	1.65	0.07
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	417.23	2.02	0.06
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	417.93	2.72	0.04
Downy Woodpecker	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	418.68	3.47	0.03
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	419.98	4.77	0.01
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	420.00	4.79	0.01
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	420.21	5.00	0.01
Downy Woodpecker	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	420.29	5.08	0.01
Downy Woodpecker	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	420.68	5.48	0.01
Downy Woodpecker	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	421.18	5.97	0.01
Downy Woodpecker	p(era) + ψ(elevation) + γ(1) + ε(1)	6	421.20	5.99	0.01
Hairy Woodpecker	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	636.62	0.00	0.16
Hairy Woodpecker	p(observer) + ψ(1) + γ(1) + ε(Δtemp)	13	637.68	1.06	0.09
Hairy Woodpecker	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	637.92	1.31	0.08
Hairy Woodpecker	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	638.25	1.64	0.07
Hairy Woodpecker	p(observer) + ψ(1) + γ(1) + ε(1)	12	638.38	1.77	0.07
Hairy Woodpecker	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	638.71	2.10	0.06
Hairy Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	638.98	2.37	0.05
Hairy Woodpecker	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp)	14	639.41	2.80	0.04
Hairy Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	639.69	3.07	0.03
Hairy Woodpecker	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	639.72	3.10	0.03
Hairy Woodpecker	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	639.74	3.13	0.03
Hairy Woodpecker	p(observer) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	14	639.90	3.29	0.03
Hairy Woodpecker	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	640.20	3.59	0.03
Hairy Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	640.23	3.61	0.03
Hairy Woodpecker	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	640.35	3.73	0.02

Species	Model	k	AICc	ΔAICc	Weight
Hairy Woodpecker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	640.78	4.16	0.02
Hairy Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	641.04	4.43	0.02
Hairy Woodpecker	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	641.45	4.84	0.01
Hairy Woodpecker	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	641.76	5.15	0.01
Hairy Woodpecker	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	15	641.82	5.20	0.01
Hairy Woodpecker	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	641.93	5.31	0.01
Hairy Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	641.99	5.37	0.01
Hairy Woodpecker	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	642.04	5.42	0.01
Hairy Woodpecker	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	642.27	5.65	0.01
Northern Flicker	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	604.11	0.00	0.16
Northern Flicker	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	604.48	0.37	0.13
Northern Flicker	p(observer) + ψ(1) + γ(1) + ε(1)	12	605.13	1.03	0.10
Northern Flicker	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	605.16	1.05	0.10
Northern Flicker	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	606.50	2.39	0.05
Northern Flicker	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	606.91	2.80	0.04
Northern Flicker	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	606.99	2.88	0.04
Northern Flicker	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	607.05	2.94	0.04
Northern Flicker	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	607.07	2.96	0.04
Northern Flicker	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	607.17	3.06	0.03
Northern Flicker	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	607.36	3.25	0.03
Northern Flicker	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	607.44	3.33	0.03
Northern Flicker	p(observer) + ψ(1) + γ(1) + ε(hii)	13	607.46	3.35	0.03
Northern Flicker	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	607.53	3.42	0.03
Northern Flicker	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	607.54	3.43	0.03
Northern Flicker	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	607.56	3.45	0.03
Northern Flicker	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	607.62	3.51	0.03
Northern Flicker	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	609.46	5.35	0.01
Northern Flicker	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	609.55	5.44	0.01
Pileated Woodpecker	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	311.63	0.00	0.20
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	313.02	1.39	0.10
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	313.10	1.47	0.09
Pileated Woodpecker	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	313.63	2.00	0.07
Pileated Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	313.72	2.09	0.07
Pileated Woodpecker	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	313.77	2.14	0.07
Pileated Woodpecker	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	314.44	2.81	0.05
Pileated Woodpecker	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	314.71	3.08	0.04
Pileated Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	315.90	4.27	0.02
Pileated Woodpecker	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	316.13	4.50	0.02
Pileated Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	316.21	4.58	0.02
Pileated Woodpecker	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	316.27	4.64	0.02
Pileated Woodpecker	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	316.31	4.69	0.02
Pileated Woodpecker	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	316.43	4.80	0.02
Pileated Woodpecker	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	316.44	4.81	0.02
Pileated Woodpecker	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	316.77	5.14	0.02
Pileated Woodpecker	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	316.84	5.21	0.01
Pileated Woodpecker	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	317.42	5.79	0.01
Pileated Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	317.78	6.15	0.01
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	317.88	6.25	0.01
Pileated Woodpecker	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	318.53	6.90	0.01
Pileated Woodpecker	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	318.58	6.95	0.01
Pileated Woodpecker	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	318.89	7.26	0.01

Species	Model	k	AICc	ΔAICc	Weight
Pileated Woodpecker	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	318.90	7.27	0.01
Pileated Woodpecker	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	319.43	7.80	0.00
Pileated Woodpecker	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	319.45	7.82	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	319.47	7.84	0.00
Pileated Woodpecker	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	319.66	8.03	0.00
Pileated Woodpecker	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	319.84	8.22	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	319.87	8.24	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	320.03	8.40	0.00
Pileated Woodpecker	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	320.18	8.55	0.00
Pileated Woodpecker	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	320.19	8.56	0.00
Pileated Woodpecker	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	320.21	8.58	0.00
Pileated Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	320.25	8.62	0.00
Pileated Woodpecker	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	320.25	8.62	0.00
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	414.89	0.00	0.52
Olive-sided Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	417.34	2.45	0.15
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	418.75	3.86	0.07
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	418.93	4.05	0.07
Olive-sided Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	420.12	5.23	0.04
Olive-sided Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	420.63	5.74	0.03
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	420.83	5.94	0.03
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	421.40	6.52	0.02
Olive-sided Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	422.32	7.43	0.01
Olive-sided Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	422.55	7.66	0.01
Olive-sided Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	423.30	8.41	0.01
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	592.44	0.00	0.40
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	594.40	1.96	0.15
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	594.61	2.17	0.13
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	594.94	2.50	0.11
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	596.46	4.02	0.05
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	596.89	4.45	0.04
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	597.14	4.70	0.04
Western Wood-Pewee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	598.95	6.51	0.02
Western Wood-Pewee	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	600.72	8.28	0.01
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	152.84	0.00	0.33
Hammond's Flycatcher	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	155.06	2.21	0.11
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	155.06	2.22	0.11
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	155.22	2.37	0.10
Hammond's Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	156.77	3.93	0.05
Hammond's Flycatcher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	157.08	4.23	0.04
Hammond's Flycatcher	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	157.38	4.53	0.03
Hammond's Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	157.46	4.61	0.03
Hammond's Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	157.82	4.97	0.03
Hammond's Flycatcher	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	158.63	5.79	0.02
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	159.00	6.16	0.02
Hammond's Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	159.36	6.52	0.01
Hammond's Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	159.41	6.57	0.01
Hammond's Flycatcher	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	159.43	6.59	0.01
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	159.56	6.71	0.01
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	159.61	6.77	0.01
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	159.73	6.89	0.01
Hammond's Flycatcher	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	160.31	7.46	0.01

Species	Model	k	AICc	ΔAICc	Weight
Hammond's Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	160.32	7.47	0.01
Hammond's Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	160.38	7.54	0.01
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	8	181.35	0.00	0.15
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(1) + ε(hii)	6	182.74	1.39	0.07
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(1) + ε(hii)	7	182.92	1.57	0.07
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	183.17	1.82	0.06
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	183.50	2.16	0.05
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	183.56	2.22	0.05
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	183.62	2.27	0.05
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	184.28	2.93	0.03
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	184.62	3.28	0.03
Dusky Flycatcher	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	7	184.83	3.48	0.03
Dusky Flycatcher	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	185.01	3.67	0.02
Dusky Flycatcher	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	185.03	3.68	0.02
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	185.15	3.80	0.02
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	185.17	3.82	0.02
Dusky Flycatcher	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	185.30	3.96	0.02
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(1) + ε(Δtemp)	6	185.31	3.97	0.02
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	185.76	4.42	0.02
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	185.87	4.53	0.02
Dusky Flycatcher	p(date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	186.29	4.94	0.01
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	186.38	5.04	0.01
Dusky Flycatcher	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	186.48	5.13	0.01
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	186.53	5.18	0.01
Dusky Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	186.59	5.24	0.01
Dusky Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	186.73	5.39	0.01
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	186.77	5.43	0.01
Dusky Flycatcher	p(date) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	186.82	5.47	0.01
Dusky Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	187.05	5.70	0.01
Dusky Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	187.15	5.81	0.01
Dusky Flycatcher	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	187.16	5.81	0.01
Dusky Flycatcher	p(1) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	7	187.27	5.92	0.01
Dusky Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	187.30	5.95	0.01
Dusky Flycatcher	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	187.44	6.09	0.01
Dusky Flycatcher	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	187.47	6.13	0.01
Dusky Flycatcher	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	8	187.86	6.52	0.01
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	187.98	6.64	0.01
Dusky Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	188.10	6.75	0.00
Dusky Flycatcher	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	188.18	6.84	0.00
Dusky Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	188.42	7.07	0.00
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	188.45	7.11	0.00
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	188.46	7.11	0.00
Dusky Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	188.62	7.28	0.00
Dusky Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	188.63	7.28	0.00
Dusky Flycatcher	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	188.67	7.32	0.00
Dusky Flycatcher	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	188.99	7.64	0.00
Dusky Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	189.04	7.70	0.00
Dusky Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	189.06	7.72	0.00
Dusky Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	189.10	7.75	0.00
Dusky Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	189.13	7.78	0.00
Dusky Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	189.25	7.90	0.00

Species	Model	k	AICc	ΔAICc	Weight
Dusky Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	189.26	7.92	0.00
Dusky Flycatcher	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	189.32	7.98	0.00
Dusky Flycatcher	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii)	8	189.34	8.00	0.00
Dusky Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	189.45	8.10	0.00
Dusky Flycatcher	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	189.45	8.10	0.00
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	508.33	0.00	0.24
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	508.80	0.47	0.19
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	509.58	1.25	0.13
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	511.15	2.82	0.06
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	511.36	3.03	0.05
Pacific-slope Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	511.45	3.12	0.05
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	511.58	3.25	0.05
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	511.89	3.56	0.04
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	513.07	4.74	0.02
Pacific-slope Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	513.66	5.32	0.02
Pacific-slope Flycatcher	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	513.74	5.41	0.02
Pacific-slope Flycatcher	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp)	14	513.78	5.45	0.02
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	514.18	5.85	0.01
Pacific-slope Flycatcher	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	514.41	6.08	0.01
Pacific-slope Flycatcher	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	515.02	6.69	0.01
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	515.46	7.13	0.01
Pacific-slope Flycatcher	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp)	15	515.64	7.31	0.01
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	516.12	7.79	0.00
Pacific-slope Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	516.24	7.91	0.00
Black Phoebe	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	472.38	0.00	0.17
Black Phoebe	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	473.66	1.28	0.09
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	473.70	1.33	0.09
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	473.72	1.35	0.09
Black Phoebe	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	473.97	1.60	0.08
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	474.82	2.44	0.05
Black Phoebe	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	474.85	2.47	0.05
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	475.03	2.65	0.04
Black Phoebe	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	475.48	3.11	0.04
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	475.84	3.47	0.03
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	476.11	3.74	0.03
Black Phoebe	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	476.17	3.79	0.03
Black Phoebe	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	476.17	3.79	0.03
Black Phoebe	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	476.23	3.86	0.02
Black Phoebe	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	476.77	4.39	0.02
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	477.28	4.90	0.01
Black Phoebe	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	477.37	5.00	0.01
Black Phoebe	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	477.54	5.16	0.01
Black Phoebe	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	477.54	5.16	0.01
Black Phoebe	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	477.56	5.18	0.01
Black Phoebe	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	477.74	5.36	0.01
Black Phoebe	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	478.03	5.66	0.01
Black Phoebe	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	478.14	5.76	0.01
Black Phoebe	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	478.39	6.02	0.01
Black Phoebe	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	478.62	6.24	0.01
Black Phoebe	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	478.64	6.27	0.01
Ash-throated Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	408.98	0.00	0.28

Species	Model	k	AICc	ΔAICc	Weight
Ash-throated Flycatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	409.71	0.73	0.20
Ash-throated Flycatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	410.81	1.83	0.11
Ash-throated Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	411.30	2.32	0.09
Ash-throated Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	411.48	2.50	0.08
Ash-throated Flycatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	411.98	3.00	0.06
Ash-throated Flycatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	412.25	3.27	0.06
Ash-throated Flycatcher	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	413.08	4.10	0.04
Ash-throated Flycatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	413.35	4.38	0.03
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	290.56	0.00	0.17
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	291.25	0.69	0.12
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	292.25	1.69	0.07
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	292.92	2.36	0.05
Western Kingbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	293.15	2.59	0.05
Western Kingbird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	293.16	2.60	0.05
Western Kingbird	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	293.17	2.61	0.05
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	293.39	2.83	0.04
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	293.51	2.95	0.04
Western Kingbird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	293.67	3.11	0.04
Western Kingbird	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	293.73	3.17	0.03
Western Kingbird	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	294.04	3.48	0.03
Western Kingbird	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	294.64	4.08	0.02
Western Kingbird	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	294.68	4.12	0.02
Western Kingbird	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	294.72	4.16	0.02
Western Kingbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	294.78	4.22	0.02
Western Kingbird	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	294.81	4.25	0.02
Western Kingbird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	295.33	4.77	0.02
Western Kingbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	295.55	4.99	0.01
Western Kingbird	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	295.58	5.02	0.01
Western Kingbird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	295.66	5.10	0.01
Western Kingbird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	295.67	5.11	0.01
Western Kingbird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	295.87	5.31	0.01
Western Kingbird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	296.01	5.45	0.01
Western Kingbird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	296.20	5.64	0.01
Western Kingbird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	296.25	5.69	0.01
Western Kingbird	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	296.49	5.93	0.01
Western Kingbird	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	297.00	6.43	0.01
Loggerhead Shrike	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	8	112.95	0.00	0.53
Loggerhead Shrike	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	115.23	2.28	0.17
Loggerhead Shrike	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	9	115.23	2.29	0.17
Loggerhead Shrike	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	117.55	4.60	0.05
Loggerhead Shrike	p(1) + ψ(hPrecip) + γ(1) + ε(Δprecip)	6	119.30	6.36	0.02
Loggerhead Shrike	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	121.01	8.06	0.01
Loggerhead Shrike	p(1) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	7	121.37	8.42	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	512.76	0.00	0.13
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	513.43	0.68	0.10
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	513.67	0.91	0.09
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	514.63	1.87	0.05
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	514.72	1.96	0.05
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	515.08	2.32	0.04
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	515.55	2.79	0.03
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	515.83	3.07	0.03

Species	Model	k	AICc	ΔAICc	Weight
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	515.84	3.08	0.03
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	516.15	3.39	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	516.43	3.67	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	516.53	3.77	0.02
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	516.56	3.80	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	516.76	4.00	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	516.87	4.11	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii)	8	517.05	4.29	0.02
Cassin's Vireo	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	517.24	4.48	0.01
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	517.32	4.56	0.01
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	517.36	4.60	0.01
Cassin's Vireo	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	517.72	4.96	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	9	517.94	5.18	0.01
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	518.00	5.24	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	518.11	5.35	0.01
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	518.13	5.37	0.01
Cassin's Vireo	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	518.23	5.47	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	518.27	5.52	0.01
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	518.34	5.58	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	518.59	5.83	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	518.66	5.90	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	9	518.67	5.91	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	518.68	5.92	0.01
Cassin's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	518.73	5.97	0.01
Cassin's Vireo	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	519.02	6.26	0.01
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	519.07	6.31	0.01
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	519.39	6.63	0.00
Cassin's Vireo	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	519.42	6.66	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	519.48	6.72	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	519.50	6.74	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	519.50	6.74	0.00
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	519.68	6.92	0.00
Cassin's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	519.68	6.92	0.00
Cassin's Vireo	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	519.68	6.92	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp)	8	519.95	7.20	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	10	519.97	7.21	0.00
Cassin's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	520.22	7.47	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	520.32	7.56	0.00
Cassin's Vireo	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	520.33	7.57	0.00
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	520.45	7.69	0.00
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	520.49	7.74	0.00
Cassin's Vireo	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	520.60	7.84	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	520.66	7.90	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	520.66	7.90	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	520.68	7.92	0.00
Cassin's Vireo	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	8	520.99	8.23	0.00
Cassin's Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	521.05	8.29	0.00
Cassin's Vireo	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	521.23	8.47	0.00
Cassin's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	521.24	8.48	0.00
Cassin's Vireo	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	521.28	8.52	0.00
Cassin's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	521.31	8.56	0.00

Species	Model	k	AICc	ΔAICc	Weight
Cassin's Vireo	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	521.39	8.63	0.00
Cassin's Vireo	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	521.47	8.71	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	521.52	8.76	0.00
Cassin's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	521.65	8.89	0.00
Cassin's Vireo	p(date) + ψ(elevation) + γ(1) + ε(hii)	7	521.69	8.93	0.00
Cassin's Vireo	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	521.74	8.98	0.00
Cassin's Vireo	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	521.77	9.01	0.00
Cassin's Vireo	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	521.81	9.05	0.00
Cassin's Vireo	p(era) + ψ(latitude) + γ(1) + ε(1)	6	521.82	9.06	0.00
Cassin's Vireo	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	521.89	9.13	0.00
Cassin's Vireo	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	9	522.01	9.25	0.00
Cassin's Vireo	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	522.07	9.31	0.00
Hutton's Vireo	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	529.22	0.00	0.28
Hutton's Vireo	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	531.40	2.17	0.09
Hutton's Vireo	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	531.43	2.20	0.09
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	532.32	3.10	0.06
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(1)	6	533.08	3.85	0.04
Hutton's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	533.39	4.17	0.03
Hutton's Vireo	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	533.63	4.41	0.03
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	533.77	4.54	0.03
Hutton's Vireo	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	533.94	4.71	0.03
Hutton's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	534.33	5.11	0.02
Hutton's Vireo	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	534.48	5.26	0.02
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	534.52	5.30	0.02
Hutton's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	535.07	5.84	0.02
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	535.07	5.85	0.02
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	535.11	5.88	0.01
Hutton's Vireo	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	535.63	6.41	0.01
Hutton's Vireo	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	535.70	6.48	0.01
Hutton's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	535.79	6.57	0.01
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	536.02	6.80	0.01
Hutton's Vireo	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	536.15	6.93	0.01
Hutton's Vireo	p(era) + ψ(latitude) + γ(1) + ε(1)	6	536.34	7.12	0.01
Hutton's Vireo	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	536.38	7.15	0.01
Hutton's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	536.42	7.20	0.01
Hutton's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	536.57	7.35	0.01
Hutton's Vireo	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	536.65	7.43	0.01
Hutton's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	537.08	7.86	0.01
Hutton's Vireo	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	537.11	7.88	0.01
Hutton's Vireo	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	537.13	7.91	0.01
Hutton's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	537.15	7.93	0.01
Hutton's Vireo	p(era) + ψ(1) + γ(1) + ε(1)	5	537.33	8.11	0.00
Hutton's Vireo	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	537.57	8.35	0.00
Hutton's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	537.71	8.48	0.00
Hutton's Vireo	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	537.90	8.67	0.00
Hutton's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	537.90	8.67	0.00
Hutton's Vireo	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	538.31	9.09	0.00
Hutton's Vireo	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	538.34	9.12	0.00
Hutton's Vireo	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	538.42	9.20	0.00
Hutton's Vireo	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	538.47	9.25	0.00
Hutton's Vireo	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	538.49	9.26	0.00

Species	Model	k	AICc	ΔAICc	Weight
Hutton's Vireo	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	538.55	9.32	0.00
Hutton's Vireo	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	538.56	9.34	0.00
Hutton's Vireo	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	538.70	9.47	0.00
Hutton's Vireo	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	538.70	9.48	0.00
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	555.77	0.00	0.14
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	556.84	1.07	0.08
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	557.38	1.60	0.06
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	557.90	2.12	0.05
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	558.10	2.33	0.04
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	558.11	2.34	0.04
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	558.29	2.51	0.04
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	558.87	3.09	0.03
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp)	14	558.93	3.15	0.03
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	558.95	3.17	0.03
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	559.10	3.33	0.03
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	559.16	3.39	0.03
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	559.29	3.51	0.02
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(Δprecip)	14	559.31	3.54	0.02
Warbling Vireo	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	559.87	4.09	0.02
Warbling Vireo	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	559.87	4.10	0.02
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	559.89	4.11	0.02
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	560.09	4.32	0.02
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	560.28	4.50	0.01
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	560.44	4.67	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	560.47	4.69	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	560.66	4.88	0.01
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	560.66	4.89	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp)	15	560.80	5.03	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	560.99	5.22	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	15	561.01	5.23	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	561.23	5.46	0.01
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	561.26	5.48	0.01
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	561.26	5.49	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	561.36	5.59	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	561.37	5.60	0.01
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	561.39	5.61	0.01
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	561.43	5.66	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δprecip)	15	561.44	5.66	0.01
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	561.44	5.66	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	561.70	5.92	0.01
Warbling Vireo	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	561.71	5.94	0.01
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	561.79	6.02	0.01
Warbling Vireo	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	562.19	6.41	0.01
Warbling Vireo	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	562.41	6.63	0.00
Warbling Vireo	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	562.42	6.64	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	562.49	6.72	0.00
Warbling Vireo	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	562.68	6.91	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	562.87	7.09	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	16	562.91	7.14	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	563.01	7.24	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	563.05	7.28	0.00

Species	Model	k	AICc	ΔAICc	Weight
Warbling Vireo	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	563.20	7.42	0.00
Warbling Vireo	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	563.29	7.52	0.00
Warbling Vireo	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	563.35	7.57	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	563.41	7.64	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	563.44	7.66	0.00
Warbling Vireo	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	563.52	7.74	0.00
Steller's Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	460.46	0.00	0.17
Steller's Jay	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	461.75	1.29	0.09
Steller's Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	461.77	1.31	0.09
Steller's Jay	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	461.78	1.32	0.09
Steller's Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	462.74	2.28	0.05
Steller's Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	463.06	2.59	0.05
Steller's Jay	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	463.73	3.27	0.03
Steller's Jay	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	463.82	3.35	0.03
Steller's Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	463.88	3.42	0.03
Steller's Jay	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	463.88	3.42	0.03
Steller's Jay	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	464.00	3.54	0.03
Steller's Jay	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	464.10	3.64	0.03
Steller's Jay	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	464.10	3.64	0.03
Steller's Jay	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	464.52	4.06	0.02
Steller's Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	464.60	4.13	0.02
Steller's Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	464.78	4.32	0.02
Steller's Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	465.38	4.91	0.01
Steller's Jay	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	465.63	5.17	0.01
Steller's Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	465.66	5.20	0.01
Steller's Jay	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	465.73	5.26	0.01
Steller's Jay	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	465.90	5.43	0.01
Steller's Jay	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	466.08	5.62	0.01
Steller's Jay	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	466.25	5.78	0.01
Steller's Jay	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	466.35	5.89	0.01
Steller's Jay	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	466.46	6.00	0.01
Steller's Jay	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	466.69	6.22	0.01
Steller's Jay	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	466.71	6.25	0.01
Steller's Jay	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	466.75	6.29	0.01
Steller's Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	466.95	6.49	0.01
Steller's Jay	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	466.96	6.50	0.01
Steller's Jay	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	466.99	6.53	0.01
Steller's Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	467.28	6.81	0.01
Steller's Jay	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	467.68	7.22	0.00
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	475.45	0.00	0.16
Western Scrub-Jay	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	476.01	0.57	0.12
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	476.77	1.32	0.08
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	476.85	1.40	0.08
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	477.51	2.06	0.06
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	477.73	2.28	0.05
Western Scrub-Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	477.87	2.43	0.05
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	477.97	2.53	0.04
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	478.09	2.64	0.04
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	478.09	2.65	0.04
Western Scrub-Jay	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	478.44	3.00	0.03
Western Scrub-Jay	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	478.88	3.43	0.03

Species	Model	k	AICc	ΔAICc	Weight
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	479.03	3.58	0.03
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	479.07	3.63	0.03
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	479.51	4.07	0.02
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	480.31	4.87	0.01
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	480.33	4.89	0.01
Western Scrub-Jay	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	480.45	5.00	0.01
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	480.55	5.10	0.01
Western Scrub-Jay	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	480.92	5.47	0.01
Western Scrub-Jay	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	481.08	5.63	0.01
Western Scrub-Jay	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	481.41	5.96	0.01
Western Scrub-Jay	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	481.55	6.10	0.01
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	481.63	6.18	0.01
Western Scrub-Jay	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	481.68	6.23	0.01
Western Scrub-Jay	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	481.68	6.24	0.01
American Crow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	414.24	0.00	0.21
American Crow	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	415.02	0.78	0.14
American Crow	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	415.99	1.74	0.09
American Crow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	416.63	2.39	0.06
American Crow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	416.81	2.57	0.06
American Crow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	417.50	3.26	0.04
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	417.72	3.48	0.04
American Crow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	418.26	4.02	0.03
American Crow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	418.46	4.22	0.03
American Crow	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	418.47	4.22	0.03
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	418.62	4.38	0.02
American Crow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	419.03	4.79	0.02
American Crow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	419.09	4.85	0.02
American Crow	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	419.34	5.10	0.02
American Crow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	419.34	5.10	0.02
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	419.59	5.35	0.01
American Crow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	419.92	5.68	0.01
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	420.19	5.95	0.01
American Crow	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	420.50	6.26	0.01
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	420.55	6.30	0.01
American Crow	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	420.64	6.39	0.01
American Crow	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	420.77	6.53	0.01
American Crow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	420.79	6.54	0.01
American Crow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	421.46	7.22	0.01
American Crow	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	421.48	7.23	0.01
American Crow	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	421.55	7.30	0.01
American Crow	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	421.70	7.45	0.01
American Crow	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	421.81	7.57	0.00
American Crow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	421.96	7.72	0.00
American Crow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	422.16	7.92	0.00
American Crow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	422.18	7.94	0.00
American Crow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	422.71	8.46	0.00
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	367.40	0.00	0.13
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	367.79	0.40	0.11
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	369.08	1.68	0.06
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	369.60	2.20	0.04
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	369.65	2.25	0.04

Species	Model	k	AICc	ΔAICc	Weight
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	369.65	2.25	0.04
Common Raven	p(era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	369.72	2.32	0.04
Common Raven	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	369.90	2.50	0.04
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	369.98	2.59	0.04
Common Raven	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	370.55	3.15	0.03
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	370.75	3.35	0.02
Common Raven	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	371.31	3.91	0.02
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	371.36	3.97	0.02
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	371.36	3.97	0.02
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	371.38	3.98	0.02
Common Raven	p(era) + ψ(1) + γ(1) + ε(Δprecip)	6	371.58	4.18	0.02
Common Raven	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	371.72	4.32	0.01
Common Raven	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	371.85	4.45	0.01
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	371.88	4.49	0.01
Common Raven	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	371.92	4.52	0.01
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	371.93	4.54	0.01
Common Raven	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	371.97	4.57	0.01
Common Raven	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	372.02	4.62	0.01
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(1)	6	372.33	4.93	0.01
Common Raven	p(era) + ψ(1) + γ(1) + ε(hii)	6	372.42	5.02	0.01
Common Raven	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	372.80	5.40	0.01
Common Raven	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	372.80	5.40	0.01
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	373.07	5.67	0.01
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	373.07	5.67	0.01
Common Raven	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	373.11	5.71	0.01
Common Raven	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	373.12	5.73	0.01
Common Raven	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	373.42	6.03	0.01
Common Raven	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	373.48	6.09	0.01
Common Raven	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	373.59	6.20	0.01
Common Raven	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	373.59	6.20	0.01
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	373.61	6.22	0.01
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	373.69	6.29	0.01
Common Raven	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	373.69	6.29	0.01
Common Raven	p(era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	7	373.80	6.40	0.01
Common Raven	p(era) + ψ(1) + γ(1) + ε(hii + Δprecip)	7	373.80	6.40	0.01
Common Raven	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	373.82	6.42	0.01
Common Raven	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	373.88	6.49	0.01
Common Raven	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	373.92	6.52	0.00
Common Raven	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	374.08	6.68	0.00
Common Raven	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	374.14	6.74	0.00
Common Raven	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	374.14	6.74	0.00
Common Raven	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp)	7	374.16	6.76	0.00
Common Raven	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	374.25	6.85	0.00
Common Raven	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	374.55	7.15	0.00
Common Raven	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	374.56	7.16	0.00
Common Raven	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δprecip)	8	374.75	7.36	0.00
Common Raven	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	375.08	7.69	0.00
Common Raven	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	375.26	7.86	0.00
Common Raven	p(date + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	8	375.36	7.96	0.00
Common Raven	p(date + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	8	375.36	7.96	0.00
Common Raven	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	375.38	7.99	0.00

Species	Model	k	AICc	ΔAICc	Weight
Common Raven	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	375.43	8.03	0.00
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	225.71	0.00	0.31
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	228.22	2.51	0.09
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	229.75	4.04	0.04
Purple Martin	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	229.98	4.27	0.04
Purple Martin	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp)	14	230.06	4.35	0.04
Purple Martin	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	230.63	4.92	0.03
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	230.91	5.20	0.02
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	231.01	5.31	0.02
Purple Martin	p(observer) + ψ(1) + γ(1) + ε(hii + Δprecip)	14	231.27	5.56	0.02
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	231.36	5.65	0.02
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	231.49	5.79	0.02
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	231.53	5.83	0.02
Purple Martin	p(observer) + ψ(1) + γ(1) + ε(hii)	13	231.80	6.09	0.01
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	232.03	6.33	0.01
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	16	232.36	6.65	0.01
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	232.40	6.69	0.01
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	232.48	6.77	0.01
Purple Martin	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	232.51	6.80	0.01
Purple Martin	p(1) + ψ(latitude) + γ(1) + ε(Δtemp)	6	232.70	7.00	0.01
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	232.80	7.09	0.01
Purple Martin	p(date) + ψ(latitude) + γ(1) + ε(Δtemp)	7	233.07	7.36	0.01
Purple Martin	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	233.09	7.38	0.01
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	233.18	7.47	0.01
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	233.30	7.59	0.01
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	233.43	7.72	0.01
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	233.60	7.89	0.01
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	233.65	7.94	0.01
Purple Martin	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	233.65	7.94	0.01
Purple Martin	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	233.74	8.03	0.01
Purple Martin	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	233.79	8.08	0.01
Purple Martin	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	233.85	8.15	0.01
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	234.00	8.29	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	234.21	8.50	0.00
Purple Martin	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	234.24	8.53	0.00
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	234.26	8.55	0.00
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	234.33	8.63	0.00
Purple Martin	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	234.64	8.93	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	234.67	8.96	0.00
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	234.71	9.00	0.00
Purple Martin	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	234.88	9.17	0.00
Purple Martin	p(1) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	7	234.92	9.21	0.00
Purple Martin	p(1) + ψ(elevation) + γ(1) + ε(Δtemp)	6	234.94	9.23	0.00
Purple Martin	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	8	235.14	9.43	0.00
Purple Martin	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	8	235.24	9.53	0.00
Purple Martin	p(date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	235.25	9.54	0.00
Purple Martin	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	235.26	9.55	0.00
Purple Martin	p(date + era) + ψ(1) + γ(1) + ε(Δtemp)	7	235.30	9.59	0.00
Purple Martin	p(observer) + ψ(1) + γ(1) + ε(1)	12	235.40	9.69	0.00
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	235.45	9.74	0.00
Purple Martin	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp)	7	235.51	9.80	0.00

Species	Model	k	AICc	ΔAICc	Weight
Purple Martin	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	235.53	9.82	0.00
Purple Martin	p(1) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	7	235.58	9.87	0.00
Purple Martin	p(date) + ψ(elevation) + γ(1) + ε(Δtemp)	7	235.60	9.89	0.00
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	235.70	9.99	0.00
Purple Martin	p(era) + ψ(1) + γ(1) + ε(Δtemp)	6	235.71	10.00	0.00
Purple Martin	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	235.71	10.00	0.00
Purple Martin	p(1) + ψ(1) + γ(1) + ε(Δtemp)	5	235.89	10.18	0.00
Purple Martin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	235.89	10.18	0.00
Purple Martin	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	236.01	10.30	0.00
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	236.02	10.31	0.00
Purple Martin	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	236.04	10.33	0.00
Purple Martin	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	236.07	10.36	0.00
Purple Martin	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	236.11	10.40	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	236.21	10.50	0.00
Purple Martin	p(1) + ψ(latitude) + γ(1) + ε(hii)	6	236.29	10.59	0.00
Purple Martin	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	236.33	10.62	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	236.33	10.63	0.00
Purple Martin	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	236.35	10.64	0.00
Purple Martin	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	236.37	10.66	0.00
Purple Martin	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	236.39	10.68	0.00
Purple Martin	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	236.40	10.70	0.00
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	236.41	10.70	0.00
Purple Martin	p(era) + ψ(latitude) + γ(1) + ε(1)	6	236.47	10.76	0.00
Purple Martin	p(date) + ψ(1) + γ(1) + ε(Δtemp)	6	236.50	10.79	0.00
Purple Martin	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	236.53	10.82	0.00
Purple Martin	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	236.53	10.82	0.00
Purple Martin	p(date) + ψ(latitude) + γ(1) + ε(hii)	7	236.59	10.88	0.00
Purple Martin	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	236.67	10.96	0.00
Purple Martin	p(1) + ψ(hTemp) + γ(1) + ε(Δtemp)	6	236.77	11.06	0.00
Purple Martin	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	236.81	11.10	0.00
Purple Martin	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	9	236.81	11.10	0.00
Purple Martin	p(era) + ψ(1) + γ(1) + ε(hii)	6	236.89	11.18	0.00
Purple Martin	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	236.93	11.22	0.00
Purple Martin	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	8	237.02	11.31	0.00
Purple Martin	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	237.11	11.40	0.00
Purple Martin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	237.15	11.44	0.00
Purple Martin	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	237.15	11.44	0.00
Purple Martin	p(1) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	7	237.16	11.45	0.00
Purple Martin	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	7	237.16	11.45	0.00
Purple Martin	p(1) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	7	237.17	11.46	0.00
Purple Martin	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	237.33	11.62	0.00
Purple Martin	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	9	237.34	11.63	0.00
Tree Swallow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	250.19	0.00	0.22
Tree Swallow	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	251.53	1.34	0.11
Tree Swallow	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	252.41	2.21	0.07
Tree Swallow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	252.72	2.52	0.06
Tree Swallow	p(era) + ψ(1) + γ(1) + ε(hii + Δprecip)	7	253.20	3.01	0.05
Tree Swallow	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	253.23	3.04	0.05
Tree Swallow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	253.56	3.36	0.04
Tree Swallow	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	253.66	3.46	0.04
Tree Swallow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	254.24	4.04	0.03

Species	Model	k	AICc	ΔAICc	Weight
Tree Swallow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	254.32	4.12	0.03
Tree Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	254.36	4.17	0.03
Tree Swallow	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	254.72	4.52	0.02
Tree Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	255.19	4.99	0.02
Tree Swallow	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	8	255.21	5.02	0.02
Tree Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	255.34	5.14	0.02
Tree Swallow	p(date + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	8	255.43	5.24	0.02
Tree Swallow	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	255.94	5.74	0.01
Tree Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	255.97	5.77	0.01
Tree Swallow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	9	256.05	5.85	0.01
Tree Swallow	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	256.25	6.06	0.01
Tree Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	256.54	6.34	0.01
Tree Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	256.54	6.34	0.01
Tree Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	257.44	7.24	0.01
Tree Swallow	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	9	257.47	7.27	0.01
Tree Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	257.56	7.37	0.01
Tree Swallow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	257.96	7.77	0.00
Tree Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	258.19	8.00	0.00
Tree Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	258.24	8.05	0.00
Tree Swallow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	10	258.37	8.18	0.00
Tree Swallow	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	258.77	8.58	0.00
Tree Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	258.79	8.59	0.00
Tree Swallow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	258.84	8.64	0.00
Tree Swallow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	258.89	8.70	0.00
Violet-green Swallow	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	435.64	0.00	0.12
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	435.89	0.25	0.11
Violet-green Swallow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	436.62	0.99	0.08
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	436.96	1.32	0.06
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	437.79	2.15	0.04
Violet-green Swallow	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	437.80	2.16	0.04
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	437.95	2.32	0.04
Violet-green Swallow	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	438.06	2.42	0.04
Violet-green Swallow	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	438.09	2.45	0.04
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	438.32	2.68	0.03
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	438.36	2.72	0.03
Violet-green Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	438.36	2.72	0.03
Violet-green Swallow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	439.05	3.41	0.02
Violet-green Swallow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	439.10	3.46	0.02
Violet-green Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	439.16	3.52	0.02
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	439.27	3.63	0.02
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	439.47	3.83	0.02
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	440.30	4.66	0.01
Violet-green Swallow	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	440.30	4.66	0.01
Violet-green Swallow	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	440.35	4.71	0.01
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	440.44	4.80	0.01
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	440.46	4.82	0.01
Violet-green Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	440.47	4.83	0.01
Violet-green Swallow	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	440.54	4.90	0.01
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	440.82	5.18	0.01
Violet-green Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	440.83	5.19	0.01
Violet-green Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	440.87	5.23	0.01

Species	Model	k	AICc	ΔAICc	Weight
Violet-green Swallow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	441.15	5.51	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	441.30	5.66	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	441.30	5.66	0.01
Violet-green Swallow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	441.55	5.91	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	441.67	6.03	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	441.71	6.07	0.01
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	441.80	6.16	0.01
Violet-green Swallow	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	442.08	6.44	0.00
Violet-green Swallow	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	442.46	6.82	0.00
Violet-green Swallow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	442.59	6.95	0.00
Violet-green Swallow	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	442.63	6.99	0.00
Violet-green Swallow	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	442.66	7.02	0.00
Violet-green Swallow	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	442.72	7.08	0.00
Violet-green Swallow	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	442.76	7.13	0.00
Violet-green Swallow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	442.97	7.34	0.00
Violet-green Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	442.99	7.35	0.00
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	201.07	0.00	0.24
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	201.38	0.32	0.20
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	10	203.29	2.22	0.08
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	203.72	2.66	0.06
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	203.92	2.85	0.06
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	203.97	2.90	0.06
Northern Rough-winged Swallow	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	9	204.11	3.04	0.05
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	204.25	3.18	0.05
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	204.84	3.77	0.04
Northern Rough-winged Swallow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	205.91	4.84	0.02
Northern Rough-winged Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	206.09	5.02	0.02
Northern Rough-winged Swallow	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	206.39	5.33	0.02
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	206.73	5.66	0.01
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	207.12	6.05	0.01
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	207.53	6.46	0.01
Northern Rough-winged Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	207.87	6.80	0.01
Northern Rough-winged Swallow	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	8	208.24	7.18	0.01
Northern Rough-winged Swallow	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	8	208.36	7.29	0.01
Northern Rough-winged Swallow	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	208.42	7.35	0.01
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	487.66	0.00	0.12
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	487.75	0.10	0.11
Cliff Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	488.43	0.77	0.08
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	488.69	1.04	0.07
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	489.76	2.10	0.04
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	489.84	2.19	0.04

Species	Model	k	AICc	ΔAICc	Weight
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	489.87	2.22	0.04
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	490.11	2.45	0.04
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	490.17	2.51	0.03
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	490.22	2.56	0.03
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	490.28	2.62	0.03
Cliff Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	490.56	2.90	0.03
Cliff Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	490.67	3.01	0.03
Cliff Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	490.67	3.02	0.03
Cliff Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	490.97	3.32	0.02
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	491.08	3.43	0.02
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	491.20	3.54	0.02
Cliff Swallow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	491.20	3.54	0.02
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	491.95	4.29	0.01
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	492.01	4.36	0.01
Cliff Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	492.09	4.43	0.01
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	492.44	4.78	0.01
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	492.53	4.87	0.01
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	492.55	4.90	0.01
Cliff Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	492.56	4.90	0.01
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	492.62	4.96	0.01
Cliff Swallow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	492.68	5.02	0.01
Cliff Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	492.82	5.16	0.01
Cliff Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	492.95	5.29	0.01
Cliff Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	493.41	5.75	0.01
Cliff Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	493.52	5.86	0.01
Cliff Swallow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	493.52	5.86	0.01
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	234.74	0.00	0.22
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	236.17	1.42	0.11
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	236.74	2.00	0.08
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	236.87	2.13	0.07
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	236.89	2.15	0.07
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	236.96	2.22	0.07
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	238.22	3.48	0.04
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	238.35	3.61	0.04
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	238.42	3.67	0.03
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	238.92	4.18	0.03
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	238.94	4.20	0.03
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	238.99	4.25	0.03
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	239.06	4.32	0.02
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	239.14	4.40	0.02
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	239.16	4.41	0.02
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	240.46	5.72	0.01
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	240.50	5.76	0.01
Barn Swallow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	240.64	5.90	0.01
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	241.17	6.43	0.01
Barn Swallow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	241.23	6.49	0.01
Barn Swallow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	241.24	6.50	0.01
Barn Swallow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	241.32	6.58	0.01
Mountain Chickadee	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	127.61	0.00	0.44
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	129.66	2.05	0.16
Mountain Chickadee	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	129.91	2.31	0.14

Species	Model	k	AICc	ΔAICc	Weight
Mountain Chickadee	p(1) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	7	131.46	3.85	0.06
Mountain Chickadee	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	132.01	4.40	0.05
Mountain Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	133.14	5.54	0.03
Mountain Chickadee	p(date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	133.68	6.07	0.02
Mountain Chickadee	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	8	133.72	6.11	0.02
Mountain Chickadee	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	134.53	6.92	0.01
Mountain Chickadee	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	135.41	7.80	0.01
Mountain Chickadee	p(era) + ψ(elevation) + γ(1) + ε(1)	6	135.45	7.84	0.01
Mountain Chickadee	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	135.98	8.37	0.01
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	374.86	0.00	0.36
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	375.46	0.60	0.26
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	376.82	1.95	0.13
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	377.31	2.45	0.10
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	379.74	4.88	0.03
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	379.76	4.90	0.03
Chestnut-backed Chickadee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	380.18	5.31	0.03
Chestnut-backed Chickadee	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	380.71	5.85	0.02
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	357.43	0.00	0.21
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	357.68	0.25	0.19
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	357.88	0.46	0.17
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	357.92	0.49	0.17
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	360.10	2.67	0.06
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	360.10	2.68	0.06
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	360.19	2.77	0.05
Oak Titmouse	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	360.26	2.83	0.05
Oak Titmouse	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	363.45	6.03	0.01
Bushtit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	629.69	0.00	0.19
Bushtit	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	630.60	0.92	0.12
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	632.67	2.99	0.04
Bushtit	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	632.88	3.20	0.04
Bushtit	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	633.08	3.40	0.03
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	633.16	3.47	0.03
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	633.20	3.52	0.03
Bushtit	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	633.27	3.58	0.03
Bushtit	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	633.54	3.86	0.03
Bushtit	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	633.58	3.90	0.03
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	633.58	3.90	0.03
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	633.75	4.06	0.02
Bushtit	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	634.20	4.51	0.02
Bushtit	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	634.21	4.52	0.02
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	634.41	4.73	0.02
Bushtit	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	634.47	4.79	0.02
Bushtit	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	634.48	4.80	0.02
Bushtit	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	634.49	4.81	0.02
Bushtit	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	634.60	4.92	0.02
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	634.74	5.06	0.01
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	634.88	5.19	0.01

Species	Model	k	AICc	ΔAICc	Weight
Bushtit	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	634.88	5.19	0.01
Bushtit	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	634.94	5.26	0.01
Bushtit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	634.95	5.27	0.01
Bushtit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	635.04	5.35	0.01
Bushtit	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	635.06	5.37	0.01
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	635.07	5.39	0.01
Bushtit	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	635.24	5.56	0.01
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	635.29	5.60	0.01
Bushtit	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	635.35	5.66	0.01
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	635.59	5.90	0.01
Bushtit	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	635.90	6.21	0.01
Bushtit	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	636.22	6.53	0.01
Bushtit	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	636.23	6.54	0.01
Bushtit	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	636.34	6.66	0.01
Bushtit	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	636.62	6.93	0.01
Bushtit	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	636.62	6.94	0.01
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	636.72	7.04	0.01
Bushtit	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	636.79	7.10	0.01
Bushtit	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	636.89	7.21	0.01
Bushtit	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	636.98	7.29	0.00
Bushtit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	637.02	7.34	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	309.37	0.00	0.30
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	311.86	2.50	0.08
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	311.99	2.62	0.08
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	312.26	2.89	0.07
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	312.71	3.34	0.06
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	313.21	3.84	0.04
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	313.85	4.48	0.03
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	314.08	4.72	0.03
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	314.33	4.96	0.02
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	314.82	5.45	0.02
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	314.97	5.60	0.02
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	315.34	5.97	0.01
Red-breasted Nuthatch	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	315.57	6.20	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	315.89	6.52	0.01
Red-breasted Nuthatch	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	316.02	6.65	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	316.03	6.67	0.01
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	316.05	6.69	0.01
Red-breasted Nuthatch	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	316.30	6.93	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	316.47	7.10	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	316.54	7.17	0.01
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	316.62	7.26	0.01
Red-breasted Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	316.87	7.50	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	316.91	7.54	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	317.04	7.67	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	317.08	7.71	0.01
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	317.28	7.92	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	317.31	7.94	0.01
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	317.61	8.24	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	317.68	8.31	0.00
Red-breasted Nuthatch	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	317.79	8.42	0.00

Species	Model	k	AICc	ΔAICc	Weight
Red-breasted Nuthatch	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	318.07	8.70	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	318.11	8.74	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	318.16	8.80	0.00
Red-breasted Nuthatch	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	318.18	8.81	0.00
Red-breasted Nuthatch	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	318.18	8.82	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	318.25	8.88	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	318.32	8.95	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	318.90	9.53	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	318.96	9.59	0.00
Red-breasted Nuthatch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	319.06	9.70	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	319.28	9.91	0.00
Red-breasted Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	319.32	9.95	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	319.39	10.02	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	319.44	10.07	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	319.51	10.14	0.00
Red-breasted Nuthatch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	319.54	10.17	0.00
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	456.44	0.00	0.40
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	458.16	1.72	0.17
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	458.81	2.37	0.12
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	458.83	2.39	0.12
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	460.19	3.75	0.06
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	460.43	3.98	0.05
White-breasted Nuthatch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	461.15	4.71	0.04
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	8	243.70	0.00	0.18
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	8	244.89	1.19	0.10
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	9	245.33	1.63	0.08
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	245.56	1.86	0.07
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	245.94	2.24	0.06
Pygmy Nuthatch	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	246.30	2.60	0.05
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	9	246.58	2.88	0.04
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	246.77	3.07	0.04
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	247.15	3.45	0.03
Pygmy Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	247.15	3.45	0.03
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	247.21	3.51	0.03
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	8	247.44	3.74	0.03
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	247.62	3.92	0.03
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	9	247.95	4.25	0.02
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	248.11	4.41	0.02
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	248.48	4.78	0.02
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	248.89	5.19	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	248.96	5.27	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	9	248.97	5.27	0.01
Pygmy Nuthatch	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	249.27	5.57	0.01
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	249.57	5.87	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	10	249.72	6.02	0.01
Pygmy Nuthatch	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	249.74	6.04	0.01
Pygmy Nuthatch	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	250.09	6.39	0.01
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(1) + ε(Δtemp)	7	250.81	7.11	0.01
Pygmy Nuthatch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	250.83	7.13	0.01
Pygmy Nuthatch	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	251.15	7.45	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	251.47	7.77	0.00

Species	Model	k	AICc	ΔAICc	Weight
Pygmy Nuthatch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	251.50	7.80	0.00
Pygmy Nuthatch	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	251.76	8.06	0.00
Pygmy Nuthatch	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	251.93	8.23	0.00
Pygmy Nuthatch	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	252.04	8.34	0.00
Brown Creeper	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	408.46	0.00	0.41
Brown Creeper	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	409.48	1.02	0.24
Brown Creeper	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	411.58	3.12	0.09
Brown Creeper	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	412.39	3.93	0.06
Brown Creeper	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	413.20	4.74	0.04
Brown Creeper	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	413.25	4.79	0.04
Brown Creeper	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	413.73	5.28	0.03
Brown Creeper	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	413.92	5.46	0.03
Brown Creeper	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	413.93	5.47	0.03
Bewick's Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	452.85	0.00	0.55
Bewick's Wren	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	455.30	2.46	0.16
Bewick's Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	455.75	2.90	0.13
Bewick's Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	456.91	4.07	0.07
Bewick's Wren	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	459.18	6.34	0.02
Bewick's Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	459.23	6.39	0.02
House Wren	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	485.13	0.00	0.16
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	486.64	1.51	0.07
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	487.03	1.89	0.06
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	487.44	2.31	0.05
House Wren	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	487.45	2.31	0.05
House Wren	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	487.62	2.49	0.05
House Wren	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	487.65	2.52	0.04
House Wren	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	487.75	2.62	0.04
House Wren	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δprecip)	15	488.39	3.25	0.03
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	488.45	3.32	0.03
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	488.86	3.73	0.02
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	489.00	3.86	0.02
House Wren	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	489.15	4.02	0.02
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	489.17	4.04	0.02
House Wren	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	489.24	4.11	0.02
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	489.29	4.16	0.02
House Wren	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	489.37	4.24	0.02
House Wren	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	489.58	4.45	0.02
House Wren	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	489.60	4.46	0.02
House Wren	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	489.63	4.50	0.02
House Wren	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	489.96	4.82	0.01
House Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	490.00	4.86	0.01
House Wren	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	490.18	5.05	0.01
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	490.59	5.46	0.01
House Wren	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	490.62	5.48	0.01
House Wren	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	490.74	5.60	0.01
House Wren	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	490.77	5.63	0.01
House Wren	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	490.82	5.69	0.01
House Wren	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	491.07	5.94	0.01
House Wren	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	491.20	6.06	0.01
House Wren	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	491.20	6.07	0.01
House Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	491.49	6.36	0.01

Species	Model	k	AICc	ΔAICc	Weight
House Wren	p(observer + date) + ψ(1) + γ(1) + ε(Δprecip)	14	491.81	6.67	0.01
House Wren	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	17	491.82	6.68	0.01
House Wren	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	491.92	6.78	0.01
House Wren	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	491.98	6.85	0.01
House Wren	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	492.06	6.92	0.00
House Wren	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	492.21	7.08	0.00
House Wren	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	492.22	7.09	0.00
House Wren	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	492.41	7.27	0.00
House Wren	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	492.49	7.35	0.00
House Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	492.57	7.43	0.00
House Wren	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	492.60	7.47	0.00
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	282.64	0.00	0.28
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	285.17	2.53	0.08
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	285.19	2.55	0.08
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	285.19	2.55	0.08
Winter Wren	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	285.38	2.74	0.07
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	285.58	2.94	0.06
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	286.54	3.90	0.04
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	286.75	4.11	0.04
Winter Wren	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	287.67	5.03	0.02
Winter Wren	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	287.67	5.03	0.02
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	287.76	5.12	0.02
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	287.76	5.12	0.02
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	287.78	5.15	0.02
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	287.90	5.26	0.02
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	287.90	5.26	0.02
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	288.84	6.20	0.01
Winter Wren	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	288.85	6.21	0.01
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	289.04	6.40	0.01
Winter Wren	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	289.24	6.60	0.01
Winter Wren	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	289.79	7.15	0.01
Winter Wren	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	289.82	7.18	0.01
Winter Wren	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	289.83	7.19	0.01
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	365.36	0.00	0.13
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	365.49	0.13	0.12
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	365.58	0.22	0.11
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	365.68	0.32	0.11
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	366.85	1.49	0.06
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	367.10	1.74	0.05
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	367.29	1.93	0.05
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	367.39	2.03	0.05
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	367.46	2.10	0.04
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	367.52	2.16	0.04
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	368.07	2.72	0.03
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	368.23	2.88	0.03
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	368.36	3.00	0.03
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	368.56	3.20	0.03
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	368.98	3.62	0.02
Blue-gray Gnatcatcher	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	369.37	4.01	0.02
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	369.38	4.02	0.02
Blue-gray Gnatcatcher	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	369.56	4.20	0.02

Species	Model	k	AICc	ΔAICc	Weight
Blue-gray Gnatcatcher	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	370.05	4.69	0.01
Golden-crowned Kinglet	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	226.63	0.00	0.35
Golden-crowned Kinglet	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	226.96	0.33	0.30
Golden-crowned Kinglet	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	228.96	2.32	0.11
Golden-crowned Kinglet	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	229.25	2.61	0.09
Golden-crowned Kinglet	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	231.21	4.57	0.04
Golden-crowned Kinglet	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	231.31	4.68	0.03
Golden-crowned Kinglet	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	231.57	4.93	0.03
Wrentit	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	511.55	0.00	0.17
Wrentit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	511.80	0.25	0.15
Wrentit	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	512.48	0.93	0.11
Wrentit	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	513.58	2.04	0.06
Wrentit	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	514.05	2.51	0.05
Wrentit	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	514.19	2.64	0.05
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	514.28	2.73	0.04
Wrentit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	514.30	2.76	0.04
Wrentit	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	515.21	3.67	0.03
Wrentit	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	515.66	4.12	0.02
Wrentit	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	515.76	4.21	0.02
Wrentit	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	515.77	4.22	0.02
Wrentit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	515.83	4.29	0.02
Wrentit	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	515.84	4.29	0.02
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	516.54	5.00	0.01
Wrentit	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	516.58	5.04	0.01
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	516.62	5.07	0.01
Wrentit	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	516.97	5.42	0.01
Wrentit	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	517.03	5.48	0.01
Wrentit	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	517.32	5.77	0.01
Wrentit	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	517.50	5.95	0.01
Wrentit	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	517.73	6.18	0.01
Wrentit	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	517.80	6.25	0.01
Wrentit	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	517.87	6.32	0.01
Wrentit	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	517.96	6.41	0.01
Wrentit	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	518.06	6.51	0.01
Wrentit	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	518.15	6.61	0.01
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	518.19	6.64	0.01
Wrentit	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	518.35	6.80	0.01
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	518.60	7.05	0.00
Wrentit	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	518.92	7.37	0.00
Wrentit	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	518.92	7.38	0.00
Wrentit	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	518.99	7.44	0.00
Wrentit	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	519.16	7.61	0.00
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	537.03	0.00	0.17
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	538.61	1.58	0.08
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	538.66	1.63	0.07
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	539.42	2.40	0.05
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	539.48	2.45	0.05
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	539.53	2.50	0.05
Western Bluebird	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	540.33	3.31	0.03
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	540.38	3.35	0.03
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	540.56	3.53	0.03

Species	Model	k	AICc	ΔAICc	Weight
Western Bluebird	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	540.69	3.66	0.03
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	16	541.07	4.04	0.02
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	541.07	4.05	0.02
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	541.09	4.06	0.02
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	541.10	4.07	0.02
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	541.17	4.14	0.02
Western Bluebird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	541.36	4.34	0.02
Western Bluebird	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	541.98	4.95	0.01
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	542.01	4.99	0.01
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	542.03	5.00	0.01
Western Bluebird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	542.29	5.26	0.01
Western Bluebird	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	542.32	5.30	0.01
Western Bluebird	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	542.44	5.42	0.01
Western Bluebird	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	542.75	5.73	0.01
Western Bluebird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	542.75	5.73	0.01
Western Bluebird	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	542.78	5.75	0.01
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	542.83	5.80	0.01
Western Bluebird	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	542.84	5.81	0.01
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	542.92	5.90	0.01
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	543.02	6.00	0.01
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	543.05	6.02	0.01
Western Bluebird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	543.12	6.10	0.01
Western Bluebird	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	543.41	6.38	0.01
Western Bluebird	p(observer) + ψ(1) + γ(1) + ε(hii)	13	543.56	6.53	0.01
Western Bluebird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	543.60	6.57	0.01
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	543.60	6.58	0.01
Western Bluebird	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	543.86	6.83	0.01
Western Bluebird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	544.29	7.26	0.00
Western Bluebird	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	544.33	7.30	0.00
Western Bluebird	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	544.49	7.46	0.00
Western Bluebird	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	544.58	7.56	0.00
Western Bluebird	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	544.59	7.57	0.00
Western Bluebird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	544.66	7.63	0.00
Western Bluebird	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	544.73	7.71	0.00
Western Bluebird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	544.88	7.85	0.00
Western Bluebird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	544.88	7.85	0.00
Western Bluebird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	544.91	7.88	0.00
Western Bluebird	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	545.16	8.13	0.00
Western Bluebird	p(observer) + ψ(1) + γ(1) + ε(hii + Δprecip)	14	545.19	8.16	0.00
Townsend's Solitaire	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	132.18	0.00	0.25
Townsend's Solitaire	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	132.94	0.76	0.17
Townsend's Solitaire	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	134.35	2.17	0.08
Townsend's Solitaire	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	134.40	2.22	0.08
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	134.44	2.26	0.08
Townsend's Solitaire	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	135.15	2.97	0.06
Townsend's Solitaire	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	135.19	3.01	0.06
Townsend's Solitaire	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	135.19	3.01	0.06
Townsend's Solitaire	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	136.60	4.42	0.03
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	136.68	4.50	0.03
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	136.73	4.55	0.03
Townsend's Solitaire	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	136.73	4.55	0.03

Species	Model	k	AICc	ΔAICc	Weight
Townsend's Solitaire	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	137.43	5.25	0.02
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	397.49	0.00	0.39
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	398.22	0.73	0.27
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	399.20	1.71	0.17
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	400.27	2.78	0.10
Swainson's Thrush	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	401.80	4.31	0.05
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	320.06	0.00	0.06
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	320.28	0.22	0.06
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	320.50	0.45	0.05
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	320.56	0.50	0.05
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	320.76	0.71	0.05
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	321.00	0.95	0.04
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(1)	6	321.26	1.20	0.04
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	321.86	1.81	0.03
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	321.98	1.92	0.02
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	322.03	1.97	0.02
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	322.08	2.03	0.02
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	322.10	2.05	0.02
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	322.15	2.09	0.02
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	322.40	2.34	0.02
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	322.50	2.44	0.02
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	322.75	2.70	0.02
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(Δtemp)	7	322.91	2.86	0.02
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	323.06	3.01	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(hii)	7	323.07	3.01	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	323.07	3.02	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(Δprecip)	7	323.28	3.22	0.01
Hermit Thrush	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	323.59	3.54	0.01
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	8	323.60	3.55	0.01
Hermit Thrush	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	323.77	3.72	0.01
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii)	8	323.83	3.77	0.01
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	323.88	3.82	0.01
Hermit Thrush	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	323.90	3.84	0.01
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	8	323.97	3.91	0.01
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	324.03	3.97	0.01
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	324.04	3.98	0.01
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	324.04	3.98	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	324.07	4.01	0.01
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	324.07	4.02	0.01
Hermit Thrush	p(era) + ψ(latitude) + γ(1) + ε(1)	6	324.14	4.09	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	324.21	4.16	0.01
Hermit Thrush	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	324.24	4.18	0.01
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	324.35	4.29	0.01
Hermit Thrush	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	324.41	4.35	0.01
Hermit Thrush	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	324.45	4.39	0.01
Hermit Thrush	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	324.49	4.43	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	324.63	4.57	0.01
Hermit Thrush	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	324.68	4.62	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	324.95	4.89	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	324.95	4.89	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	324.99	4.94	0.01

Species	Model	k	AICc	ΔAICc	Weight
Hermit Thrush	p(1) + ψ(latitude) + γ(1) + ε(1)	5	325.00	4.95	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	325.01	4.95	0.01
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	325.05	5.00	0.01
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	325.12	5.06	0.01
Hermit Thrush	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	325.26	5.20	0.00
Hermit Thrush	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	7	325.34	5.28	0.00
Hermit Thrush	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	325.48	5.43	0.00
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	325.65	5.59	0.00
Hermit Thrush	p(date) + ψ(hPrecip) + γ(1) + ε(hii)	7	325.74	5.68	0.00
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	325.75	5.69	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	325.76	5.71	0.00
Hermit Thrush	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	325.77	5.71	0.00
Hermit Thrush	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	325.79	5.74	0.00
Hermit Thrush	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	325.81	5.75	0.00
Hermit Thrush	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	325.83	5.77	0.00
Hermit Thrush	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	325.88	5.82	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	325.97	5.92	0.00
Hermit Thrush	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	8	326.05	6.00	0.00
Hermit Thrush	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	326.07	6.02	0.00
Hermit Thrush	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	326.09	6.03	0.00
Hermit Thrush	p(date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	326.09	6.04	0.00
Hermit Thrush	p(date) + ψ(hTemp) + γ(1) + ε(hii)	7	326.15	6.10	0.00
Hermit Thrush	p(date) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	326.18	6.12	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	326.18	6.13	0.00
Hermit Thrush	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	326.19	6.13	0.00
Hermit Thrush	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	326.19	6.13	0.00
Hermit Thrush	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	326.20	6.14	0.00
Hermit Thrush	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	326.26	6.21	0.00
Hermit Thrush	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	326.28	6.22	0.00
Hermit Thrush	p(date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	326.37	6.32	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	326.39	6.33	0.00
Hermit Thrush	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	8	326.40	6.34	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	326.45	6.40	0.00
Hermit Thrush	p(1) + ψ(latitude) + γ(1) + ε(Δtemp)	6	326.52	6.46	0.00
Hermit Thrush	p(1) + ψ(latitude) + γ(1) + ε(hii)	6	326.69	6.64	0.00
Hermit Thrush	p(1) + ψ(latitude) + γ(1) + ε(Δprecip)	6	326.82	6.76	0.00
Hermit Thrush	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	326.95	6.90	0.00
Hermit Thrush	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	8	326.96	6.90	0.00
Hermit Thrush	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	327.08	7.03	0.00
Hermit Thrush	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	327.11	7.05	0.00
Hermit Thrush	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	327.17	7.11	0.00
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	528.08	0.00	0.13
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	529.34	1.26	0.07
American Robin	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	529.57	1.49	0.06
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	529.86	1.78	0.05
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	529.87	1.79	0.05
American Robin	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	529.91	1.83	0.05
American Robin	p(era) + ψ(latitude) + γ(1) + ε(1)	6	530.25	2.17	0.04
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	530.30	2.22	0.04
American Robin	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	530.81	2.73	0.03
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	531.08	3.00	0.03

Species	Model	k	AICc	ΔAICc	Weight
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	531.18	3.10	0.03
American Robin	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	531.24	3.16	0.03
American Robin	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	531.36	3.29	0.02
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	531.38	3.30	0.02
American Robin	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	531.55	3.47	0.02
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	531.62	3.54	0.02
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	531.69	3.61	0.02
American Robin	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	531.95	3.87	0.02
American Robin	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	531.97	3.89	0.02
American Robin	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	531.98	3.90	0.02
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	532.12	4.04	0.02
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	532.13	4.05	0.02
American Robin	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	532.38	4.30	0.01
American Robin	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	532.41	4.33	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	532.58	4.50	0.01
American Robin	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	533.06	4.98	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	533.17	5.09	0.01
American Robin	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	533.24	5.16	0.01
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	533.25	5.18	0.01
American Robin	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	533.29	5.21	0.01
American Robin	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	533.47	5.39	0.01
American Robin	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	533.48	5.41	0.01
American Robin	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	533.58	5.50	0.01
American Robin	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	533.66	5.58	0.01
American Robin	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	533.70	5.62	0.01
American Robin	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	533.90	5.82	0.01
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	333.56	0.00	0.10
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	333.82	0.26	0.09
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	334.03	0.48	0.08
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	334.06	0.50	0.08
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	334.14	0.58	0.07
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	334.27	0.71	0.07
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	334.44	0.88	0.06
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	334.57	1.01	0.06
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	334.79	1.23	0.05
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	335.00	1.44	0.05
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	335.29	1.73	0.04
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	335.37	1.81	0.04
California Thrasher	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	336.24	2.68	0.03
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	336.61	3.06	0.02
California Thrasher	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	336.70	3.14	0.02
California Thrasher	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	336.76	3.20	0.02
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	16	336.98	3.42	0.02
California Thrasher	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	336.98	3.43	0.02
California Thrasher	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	337.01	3.45	0.02
California Thrasher	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	337.06	3.50	0.02
European Starling	p(date) + ψ(1) + γ(1) + ε(1)	5	180.70	0.00	0.48
European Starling	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	182.88	2.18	0.16
European Starling	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	182.88	2.18	0.16
European Starling	p(date) + ψ(hTemp) + γ(1) + ε(hii)	7	185.10	4.40	0.05
European Starling	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	187.04	6.34	0.02

Species	Model	k	AICc	ΔAICc	Weight
European Starling	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	8	187.04	6.34	0.02
European Starling	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	187.04	6.34	0.02
European Starling	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	8	187.04	6.34	0.02
European Starling	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	187.35	6.65	0.02
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	433.86	0.00	0.14
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	433.98	0.12	0.13
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	435.57	1.71	0.06
Orange-crowned Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	435.92	2.05	0.05
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	436.06	2.20	0.05
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	436.17	2.31	0.04
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	436.39	2.53	0.04
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	436.50	2.63	0.04
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	436.52	2.65	0.04
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp)	15	436.56	2.69	0.04
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	437.15	3.29	0.03
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	437.68	3.81	0.02
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	437.72	3.86	0.02
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	438.19	4.33	0.02
Orange-crowned Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	16	438.20	4.34	0.02
Orange-crowned Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	438.47	4.61	0.01
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	438.54	4.67	0.01
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	438.66	4.80	0.01
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	438.66	4.80	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	438.70	4.84	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	438.74	4.88	0.01
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	438.92	5.06	0.01
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	438.98	5.11	0.01
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	439.08	5.22	0.01
Orange-crowned Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	439.27	5.40	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	439.32	5.45	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	439.40	5.53	0.01
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	439.50	5.64	0.01
Orange-crowned Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	439.69	5.83	0.01
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	439.94	6.08	0.01
Orange-crowned	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp)	14	440.04	6.18	0.01

Species	Model	k	AICc	ΔAICc	Weight
Warbler					
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	440.05	6.19	0.01
Orange-crowned Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	440.08	6.21	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	440.25	6.38	0.01
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	440.63	6.76	0.00
Orange-crowned Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	440.71	6.84	0.00
Orange-crowned Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	440.74	6.87	0.00
Orange-crowned Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	17	440.78	6.92	0.00
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	440.83	6.96	0.00
Orange-crowned Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	440.84	6.98	0.00
Orange-crowned Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	440.93	7.06	0.00
Orange-crowned Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	441.15	7.28	0.00
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	242.62	0.00	0.15
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	8	242.92	0.30	0.13
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	244.31	1.69	0.07
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	244.83	2.21	0.05
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	245.09	2.47	0.04
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	245.20	2.59	0.04
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(1)	6	245.23	2.61	0.04
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	245.38	2.76	0.04
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	245.39	2.77	0.04
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	245.88	3.26	0.03
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	246.00	3.38	0.03
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	246.16	3.54	0.03
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	246.51	3.89	0.02
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	247.03	4.41	0.02
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	247.19	4.57	0.02
Nashville Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	247.22	4.61	0.02
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	247.25	4.63	0.02
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	247.41	4.79	0.01
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	247.44	4.82	0.01
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	247.56	4.94	0.01
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	247.61	4.99	0.01
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	247.68	5.06	0.01
Nashville Warbler	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	247.70	5.08	0.01
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	247.84	5.22	0.01
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	248.06	5.44	0.01
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	248.22	5.60	0.01
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	248.23	5.61	0.01
Nashville Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	248.45	5.83	0.01
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii)	8	248.51	5.89	0.01
Nashville Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	249.18	6.56	0.01
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	249.23	6.61	0.01
Nashville Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	8	249.34	6.72	0.01
Nashville Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	249.58	6.96	0.00

Species	Model	k	AICc	ΔAICc	Weight
Nashville Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	249.58	6.96	0.00
Nashville Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	249.74	7.12	0.00
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	249.82	7.20	0.00
Nashville Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	249.94	7.32	0.00
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	294.00	0.00	0.07
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	294.04	0.04	0.07
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	10	294.07	0.07	0.07
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	294.19	0.18	0.07
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	294.40	0.40	0.06
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	9	294.55	0.54	0.06
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	295.06	1.06	0.04
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	295.13	1.13	0.04
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	295.32	1.32	0.04
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	295.56	1.56	0.03
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	295.63	1.63	0.03
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	295.76	1.76	0.03
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	295.79	1.78	0.03
MacGillivray's Warbler	p(era) + ψ(1) + γ(1) + ε(hii + Δprecip)	7	296.09	2.09	0.03
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	296.22	2.22	0.02
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δprecip)	8	296.41	2.41	0.02
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	296.79	2.78	0.02
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	297.14	3.14	0.02
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	297.41	3.41	0.01
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	297.57	3.57	0.01
MacGillivray's Warbler	p(date + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	8	297.76	3.76	0.01
MacGillivray's Warbler	p(era) + ψ(1) + γ(1) + ε(Δprecip)	6	297.86	3.86	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	10	298.02	4.02	0.01
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	298.03	4.03	0.01
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	298.31	4.30	0.01
MacGillivray's Warbler	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	8	298.43	4.43	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	298.45	4.45	0.01
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(1)	6	298.56	4.56	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	298.57	4.57	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	9	298.68	4.67	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	298.91	4.91	0.01
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	299.06	5.06	0.01
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	299.14	5.14	0.01
MacGillivray's Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	299.23	5.23	0.01
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	299.28	5.28	0.01
MacGillivray's Warbler	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	299.56	5.55	0.00
MacGillivray's Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	299.67	5.66	0.00
MacGillivray's Warbler	p(era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	7	299.94	5.93	0.00
MacGillivray's Warbler	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	299.99	5.98	0.00
MacGillivray's Warbler	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	300.05	6.05	0.00
MacGillivray's Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	300.07	6.06	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	300.22	6.21	0.00
MacGillivray's Warbler	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	300.36	6.36	0.00
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	300.44	6.44	0.00
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	300.47	6.46	0.00
MacGillivray's Warbler	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	9	300.51	6.51	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	300.61	6.61	0.00

Species	Model	k	AICc	ΔAICc	Weight
MacGillivray's Warbler	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	300.67	6.67	0.00
MacGillivray's Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	300.67	6.67	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	300.69	6.68	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	300.81	6.80	0.00
MacGillivray's Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	301.00	7.00	0.00
MacGillivray's Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	301.09	7.09	0.00
MacGillivray's Warbler	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	301.14	7.14	0.00
Common Yellowthroat	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	138.37	0.00	0.15
Common Yellowthroat	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	140.46	2.09	0.05
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	140.46	2.09	0.05
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	140.48	2.11	0.05
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	140.60	2.23	0.05
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	140.99	2.62	0.04
Common Yellowthroat	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	141.04	2.67	0.04
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	141.17	2.80	0.04
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	141.23	2.86	0.04
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	141.79	3.42	0.03
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	142.48	4.11	0.02
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	142.89	4.52	0.02
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	142.99	4.62	0.02
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	143.04	4.67	0.01
Common Yellowthroat	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	143.14	4.77	0.01
Common Yellowthroat	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp)	14	143.30	4.93	0.01
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	143.35	4.97	0.01
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	143.54	5.17	0.01
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	143.55	5.17	0.01
Common Yellowthroat	p(observer) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	14	143.56	5.19	0.01
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(1)	6	143.78	5.41	0.01
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	143.88	5.51	0.01
Common Yellowthroat	p(observer + date) + ψ(1) + γ(1) + ε(Δprecip)	14	143.99	5.62	0.01
Common Yellowthroat	p(observer) + ψ(1) + γ(1) + ε(Δtemp)	13	144.20	5.83	0.01
Common Yellowthroat	p(era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	7	144.46	6.09	0.01
Common Yellowthroat	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	144.77	6.40	0.01
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	144.79	6.42	0.01
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	144.82	6.45	0.01
Common Yellowthroat	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	9	144.84	6.46	0.01
Common Yellowthroat	p(date + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	8	144.91	6.54	0.01
Common Yellowthroat	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	144.96	6.59	0.01
Common Yellowthroat	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp)	7	145.06	6.69	0.01
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	145.13	6.76	0.01
Common Yellowthroat	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	145.17	6.80	0.01
Common Yellowthroat	p(era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	145.23	6.86	0.00
Common Yellowthroat	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	145.27	6.90	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	145.29	6.92	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(1) + ε(Δprecip)	6	145.35	6.98	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	145.36	6.99	0.00
Common Yellowthroat	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	145.38	7.01	0.00
Common Yellowthroat	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	145.40	7.03	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	145.43	7.06	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	16	145.66	7.29	0.00
Common Yellowthroat	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	145.68	7.31	0.00

Species	Model	k	AICc	ΔAICc	Weight
Common Yellowthroat	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	145.71	7.34	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	8	145.76	7.38	0.00
Common Yellowthroat	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	145.76	7.39	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	15	145.80	7.43	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	145.80	7.43	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(1) + ε(hii + Δprecip)	7	145.82	7.44	0.00
Common Yellowthroat	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	145.92	7.54	0.00
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	145.98	7.61	0.00
Common Yellowthroat	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	146.05	7.67	0.00
Common Yellowthroat	p(date + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	8	146.23	7.86	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	146.24	7.87	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	146.28	7.91	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	10	146.32	7.94	0.00
Common Yellowthroat	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	146.34	7.97	0.00
Common Yellowthroat	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	146.38	8.01	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	146.39	8.01	0.00
Common Yellowthroat	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	146.44	8.07	0.00
Common Yellowthroat	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	146.52	8.15	0.00
Common Yellowthroat	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	146.54	8.16	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	146.56	8.19	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	146.58	8.21	0.00
Common Yellowthroat	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	15	146.58	8.21	0.00
Common Yellowthroat	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	146.59	8.22	0.00
Common Yellowthroat	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp)	15	146.59	8.22	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	146.67	8.30	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	8	146.70	8.32	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	9	146.75	8.38	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	146.83	8.46	0.00
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	146.94	8.57	0.00
Common Yellowthroat	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	147.03	8.66	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	147.04	8.67	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	147.19	8.82	0.00
Common Yellowthroat	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	147.22	8.85	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	147.26	8.89	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	147.36	8.99	0.00
Common Yellowthroat	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	147.45	9.08	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δprecip)	8	147.49	9.12	0.00
Common Yellowthroat	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	147.54	9.17	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	9	147.63	9.26	0.00
Common Yellowthroat	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	147.74	9.37	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	147.74	9.37	0.00
Common Yellowthroat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	11	147.90	9.53	0.00
Common Yellowthroat	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	147.91	9.54	0.00
Common Yellowthroat	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	147.92	9.55	0.00
Common Yellowthroat	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	147.93	9.56	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	147.93	9.56	0.00
Common Yellowthroat	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	147.94	9.57	0.00
Common Yellowthroat	p(era) + ψ(1) + γ(1) + ε(hii)	6	147.97	9.60	0.00
Common Yellowthroat	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp)	14	147.97	9.60	0.00
Common Yellowthroat	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	148.01	9.64	0.00
Common Yellowthroat	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	148.02	9.65	0.00

Species	Model	k	AICc	ΔAICc	Weight
Common Yellowthroat	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	148.05	9.68	0.00
Common Yellowthroat	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	148.05	9.68	0.00
Common Yellowthroat	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	148.06	9.69	0.00
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(1)	12	411.97	0.00	0.05
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	412.82	0.84	0.03
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(Δprecip)	13	412.97	1.00	0.03
Yellow Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	413.08	1.11	0.03
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	413.40	1.42	0.03
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	413.40	1.43	0.03
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	413.43	1.46	0.02
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	413.71	1.74	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	413.72	1.74	0.02
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	413.77	1.79	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	413.97	1.99	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	413.99	2.02	0.02
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	414.15	2.17	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	414.19	2.21	0.02
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(hii)	13	414.20	2.22	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	414.24	2.27	0.02
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(Δtemp)	13	414.33	2.36	0.02
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	414.37	2.40	0.02
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	414.62	2.64	0.01
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	414.74	2.77	0.01
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	414.80	2.83	0.01
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(hii + Δprecip)	14	414.85	2.87	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	415.07	3.10	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	415.17	3.20	0.01
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	14	415.20	3.22	0.01
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(Δprecip)	14	415.20	3.22	0.01
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	415.21	3.23	0.01
Yellow Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	415.21	3.24	0.01
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	415.22	3.24	0.01
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	415.25	3.27	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	415.29	3.31	0.01
Yellow Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	415.45	3.47	0.01
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	415.54	3.57	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	415.60	3.62	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	415.66	3.69	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	415.73	3.76	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	415.75	3.78	0.01
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	415.77	3.80	0.01
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	415.81	3.84	0.01
Yellow Warbler	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	415.85	3.87	0.01
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	415.90	3.92	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	15	415.90	3.92	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	415.92	3.94	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	415.95	3.97	0.01
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	416.02	4.04	0.01
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	416.04	4.06	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	16	416.08	4.11	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	416.15	4.18	0.01

Species	Model	k	AICc	ΔAICc	Weight
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp)	14	416.17	4.20	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	416.23	4.25	0.01
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	416.41	4.43	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	416.48	4.50	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	416.55	4.58	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	416.56	4.58	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	416.60	4.63	0.01
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	416.66	4.69	0.00
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp)	14	416.67	4.69	0.00
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	416.72	4.75	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	416.89	4.91	0.00
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	416.93	4.96	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	416.95	4.98	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	417.00	5.02	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	417.02	5.05	0.00
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δprecip)	15	417.11	5.14	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(1) + ε(1)	6	417.14	5.16	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	417.15	5.18	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	417.23	5.25	0.00
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	417.33	5.35	0.00
Yellow Warbler	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	15	417.34	5.37	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	417.35	5.37	0.00
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	417.38	5.41	0.00
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	417.47	5.50	0.00
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	417.57	5.60	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	417.57	5.60	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(1) + ε(1)	6	417.60	5.62	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	417.65	5.68	0.00
Yellow Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	417.69	5.71	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	417.71	5.73	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	417.71	5.74	0.00
Yellow Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	417.72	5.75	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	417.75	5.77	0.00
Yellow Warbler	p(date) + ψ(1) + γ(1) + ε(1)	5	417.78	5.80	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	417.80	5.83	0.00
Yellow Warbler	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	417.94	5.96	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	417.95	5.98	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	417.97	6.00	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	418.02	6.04	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	418.05	6.08	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	418.06	6.09	0.00
Yellow Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	418.09	6.12	0.00
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	418.14	6.16	0.00
Yellow Warbler	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	418.14	6.17	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	17	418.24	6.27	0.00
Yellow Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	418.24	6.27	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	418.27	6.29	0.00
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	418.28	6.30	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	16	418.30	6.33	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	418.30	6.33	0.00
Yellow Warbler	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	418.33	6.36	0.00

Species	Model	k	AICc	ΔAICc	Weight
Yellow Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	418.38	6.40	0.00
Yellow Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	418.43	6.46	0.00
Yellow Warbler	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	418.47	6.50	0.00
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp)	15	418.53	6.55	0.00
Yellow Warbler	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	418.54	6.57	0.00
Yellow Warbler	p(date) + ψ(elevation) + γ(1) + ε(1)	6	418.58	6.61	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	418.74	6.76	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	418.79	6.81	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	418.82	6.85	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	418.87	6.89	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δprecip)	8	418.95	6.97	0.00
Yellow Warbler	p(date) + ψ(latitude) + γ(1) + ε(1)	6	418.99	7.01	0.00
Yellow Warbler	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	418.99	7.02	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	419.03	7.06	0.00
Yellow Warbler	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	419.06	7.09	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	419.10	7.13	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	419.13	7.15	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	419.14	7.17	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	7	419.14	7.17	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	419.25	7.27	0.00
Yellow Warbler	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	16	419.25	7.28	0.00
Yellow Warbler	p(date + era) + ψ(1) + γ(1) + ε(Δtemp)	7	419.30	7.32	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii)	8	419.36	7.39	0.00
Yellow Warbler	p(date) + ψ(1) + γ(1) + ε(Δprecip)	6	419.38	7.41	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	419.45	7.48	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	419.49	7.51	0.00
Yellow Warbler	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	419.50	7.53	0.00
Yellow Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	419.54	7.57	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp)	8	419.54	7.57	0.00
Yellow Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	419.57	7.59	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	419.64	7.66	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(1) + ε(hii)	7	419.64	7.67	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	419.65	7.67	0.00
Yellow Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	419.65	7.67	0.00
Yellow Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	419.67	7.70	0.00
Yellow Warbler	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	419.73	7.75	0.00
Yellow Warbler	p(date) + ψ(1) + γ(1) + ε(hii)	6	419.76	7.78	0.00
Yellow Warbler	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	8	419.77	7.80	0.00
Yellow Warbler	p(date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	7	419.78	7.80	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	419.78	7.80	0.00
Yellow Warbler	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	419.80	7.82	0.00
Yellow Warbler	p(1) + ψ(1) + γ(1) + ε(1)	4	419.83	7.86	0.00
Yellow Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	419.85	7.88	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	419.86	7.88	0.00
Yellow Warbler	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	8	419.88	7.91	0.00
Yellow Warbler	p(date) + ψ(1) + γ(1) + ε(Δtemp)	6	419.91	7.94	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	419.96	7.98	0.00
Yellow Warbler	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	419.96	7.98	0.00
Yellow Warbler	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	420.03	8.06	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	420.10	8.12	0.00
Yellow Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	420.13	8.16	0.00

Species	Model	k	AICc	ΔAICc	Weight
Yellow Warbler	p(date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	420.14	8.17	0.00
Yellow Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	420.15	8.17	0.00
Yellow Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	420.16	8.18	0.00
Yellow Warbler	p(date) + ψ(elevation) + γ(1) + ε(Δprecip)	7	420.19	8.22	0.00
Yellow Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	420.20	8.23	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	420.21	8.24	0.00
Yellow Warbler	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	420.21	8.24	0.00
Yellow Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	420.25	8.27	0.00
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	370.85	0.00	0.14
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	370.88	0.03	0.14
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	372.11	1.26	0.07
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	372.12	1.28	0.07
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	372.35	1.50	0.06
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	372.39	1.54	0.06
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	373.00	2.15	0.05
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	373.03	2.18	0.05
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	373.20	2.36	0.04
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	7	373.73	2.88	0.03
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	7	373.77	2.92	0.03
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	373.99	3.15	0.03
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	374.41	3.56	0.02
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	374.63	3.78	0.02
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	374.67	3.83	0.02
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	374.67	3.83	0.02
Yellow-rumped Warbler (Audubon race)	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	375.18	4.34	0.02
Yellow-rumped Warbler (Audubon race)	p(date) + ψ(elevation) + γ(1) + ε(hii)	7	375.22	4.37	0.02
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	375.39	4.54	0.01
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	8	376.02	5.17	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	376.17	5.32	0.01
Yellow-rumped Warbler (Audubon race)	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	376.29	5.44	0.01
Yellow-rumped Warbler (Audubon race)	p(1) + ψ(elevation) + γ(1) + ε(hii)	6	376.41	5.56	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	376.99	6.15	0.01
Yellow-rumped Warbler (Audubon race)	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii)	8	377.47	6.62	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	388.10	0.00	0.29
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	390.24	2.14	0.10
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	390.42	2.33	0.09

Species	Model	k	AICc	ΔAICc	Weight
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	390.92	2.82	0.07
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	391.28	3.18	0.06
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	392.31	4.21	0.04
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	392.50	4.40	0.03
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	393.05	4.95	0.02
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	393.11	5.01	0.02
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	393.41	5.31	0.02
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	393.72	5.62	0.02
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	393.82	5.72	0.02
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	393.90	5.81	0.02
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	394.33	6.23	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	394.38	6.28	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	16	394.55	6.45	0.01
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	394.75	6.65	0.01
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	395.09	6.99	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	395.37	7.27	0.01
Black-throated Gray Warbler	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	395.45	7.35	0.01
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	395.49	7.39	0.01
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	395.56	7.46	0.01
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	395.56	7.46	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	395.60	7.50	0.01
Black-throated Gray Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	395.70	7.60	0.01
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	395.98	7.88	0.01
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	396.26	8.16	0.00
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	396.42	8.32	0.00
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	396.93	8.83	0.00
Black-throated Gray Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	396.93	8.83	0.00
Black-throated Gray Warbler	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δprecip)	15	397.03	8.93	0.00
Black-throated Gray Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	397.13	9.03	0.00
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	397.32	9.22	0.00
Black-throated Gray Warbler	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	397.37	9.27	0.00
Black-throated Gray Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	397.59	9.49	0.00
Black-throated Gray Warbler	p(era) + ψ(elevation) + γ(1) + ε(1)	6	397.67	9.58	0.00

Species	Model	k	AICc	ΔAICc	Weight
Black-throated Gray Warbler	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	397.84	9.74	0.00
Black-throated Gray Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	397.88	9.78	0.00
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	397.91	9.81	0.00
Black-throated Gray Warbler	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	397.96	9.86	0.00
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	244.56	0.00	0.10
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	244.88	0.32	0.08
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	245.68	1.12	0.06
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	246.07	1.51	0.05
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	246.12	1.56	0.04
Hermit Warbler	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	246.19	1.63	0.04
Hermit Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	246.36	1.80	0.04
Hermit Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	246.49	1.93	0.04
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	246.55	1.99	0.04
Hermit Warbler	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	247.13	2.57	0.03
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	247.22	2.67	0.03
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	247.34	2.79	0.02
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	247.56	3.00	0.02
Hermit Warbler	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	247.66	3.10	0.02
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	247.78	3.22	0.02
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	248.00	3.44	0.02
Hermit Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	248.04	3.48	0.02
Hermit Warbler	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	248.12	3.56	0.02
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	248.20	3.64	0.02
Hermit Warbler	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	248.35	3.79	0.01
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	248.49	3.93	0.01
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	248.53	3.97	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	248.72	4.16	0.01
Hermit Warbler	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	248.89	4.33	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(1)	6	248.91	4.35	0.01
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	248.95	4.39	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	249.13	4.57	0.01
Hermit Warbler	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	249.25	4.69	0.01
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	249.37	4.81	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	249.43	4.88	0.01
Hermit Warbler	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	249.58	5.02	0.01
Hermit Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	249.77	5.21	0.01
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	249.80	5.24	0.01
Hermit Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	249.82	5.26	0.01
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	249.91	5.35	0.01
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	250.05	5.49	0.01
Hermit Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	250.10	5.54	0.01
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	12	250.11	5.55	0.01
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	250.16	5.60	0.01
Hermit Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	250.25	5.69	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	250.34	5.78	0.01
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	250.51	5.95	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	250.51	5.95	0.00
Hermit Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	250.56	6.00	0.00
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	250.57	6.01	0.00

Species	Model	k	AICc	ΔAICc	Weight
Hermit Warbler	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	250.70	6.14	0.00
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	250.87	6.31	0.00
Hermit Warbler	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	251.34	6.78	0.00
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	251.34	6.78	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	251.35	6.79	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	251.38	6.82	0.00
Hermit Warbler	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	251.40	6.84	0.00
Hermit Warbler	p(era) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	9	251.41	6.85	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	251.47	6.91	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	251.58	7.02	0.00
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	251.65	7.09	0.00
Hermit Warbler	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	251.66	7.10	0.00
Hermit Warbler	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	251.85	7.29	0.00
Hermit Warbler	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	251.89	7.33	0.00
Hermit Warbler	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	252.10	7.54	0.00
Hermit Warbler	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	252.10	7.54	0.00
Hermit Warbler	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	252.11	7.55	0.00
Hermit Warbler	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	252.13	7.57	0.00
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	440.81	0.00	0.23
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	441.62	0.81	0.15
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	441.78	0.97	0.14
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	442.59	1.78	0.09
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	442.93	2.12	0.08
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	443.24	2.43	0.07
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	443.83	3.02	0.05
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	443.94	3.13	0.05
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	444.24	3.43	0.04
Wilson's Warbler	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	444.51	3.70	0.04
Wilson's Warbler	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	445.84	5.03	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	258.09	0.00	0.07
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	258.41	0.32	0.06
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	258.55	0.47	0.05
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	258.79	0.71	0.05
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	259.06	0.98	0.04
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	259.61	1.53	0.03
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	259.69	1.60	0.03
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	259.79	1.70	0.03
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	260.05	1.96	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	260.11	2.02	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	260.15	2.07	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	260.24	2.16	0.02
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	260.29	2.20	0.02
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	260.37	2.28	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	260.50	2.41	0.02
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(hii)	14	260.50	2.41	0.02
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	260.62	2.53	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	260.85	2.77	0.02
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	260.90	2.81	0.02
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	260.95	2.87	0.02
Yellow-breasted Chat	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	261.05	2.96	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	261.10	3.02	0.01

Species	Model	k	AICc	ΔAICc	Weight
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	261.16	3.07	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	261.32	3.23	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	261.34	3.25	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	16	261.40	3.31	0.01
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(1)	12	261.47	3.39	0.01
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(Δtemp)	13	261.49	3.40	0.01
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	261.50	3.41	0.01
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	261.55	3.47	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	261.62	3.54	0.01
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	261.76	3.67	0.01
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	261.78	3.70	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	261.79	3.70	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	16	261.79	3.70	0.01
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	261.86	3.77	0.01
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	262.27	4.18	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	262.28	4.20	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	262.50	4.41	0.01
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(1) + ε(1)	6	262.55	4.47	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	262.63	4.54	0.01
Yellow-breasted Chat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	262.92	4.83	0.01
Yellow-breasted Chat	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	262.98	4.89	0.01
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	262.99	4.91	0.01
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	263.28	5.19	0.00
Yellow-breasted Chat	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	263.28	5.19	0.00
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	263.29	5.20	0.00
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	263.29	5.20	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	263.37	5.29	0.00
Yellow-breasted Chat	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	263.45	5.36	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp)	14	263.71	5.63	0.00
Yellow-breasted Chat	p(date + date^2) + ψ(latitude) + γ(1) + ε(1)	7	263.74	5.66	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(Δprecip)	13	263.87	5.78	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(1) + ε(Δtemp)	7	263.87	5.79	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(hii)	13	263.89	5.80	0.00
Yellow-breasted Chat	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	263.89	5.81	0.00
Yellow-breasted Chat	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	263.92	5.83	0.00
Yellow-breasted Chat	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	263.93	5.85	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	14	263.94	5.85	0.00
Yellow-breasted Chat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	264.12	6.03	0.00
Yellow-breasted Chat	p(date + era) + ψ(1) + γ(1) + ε(1)	6	264.13	6.05	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	264.27	6.18	0.00
Yellow-breasted Chat	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	264.45	6.36	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(1) + ε(hii)	7	264.50	6.42	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	264.52	6.44	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(1) + ε(Δprecip)	7	264.54	6.45	0.00
Yellow-breasted Chat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	264.94	6.85	0.00
Yellow-breasted Chat	p(date + era) + ψ(1) + γ(1) + ε(Δtemp)	7	265.08	6.99	0.00
Yellow-breasted Chat	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	265.10	7.01	0.00
Yellow-breasted Chat	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	8	265.13	7.05	0.00
Yellow-breasted Chat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	265.14	7.06	0.00
Yellow-breasted Chat	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	265.22	7.13	0.00
Yellow-breasted Chat	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	265.32	7.24	0.00

Species	Model	k	AICc	ΔAICc	Weight
Yellow-breasted Chat	p(date) + ψ(1) + γ(1) + ε(1)	5	265.44	7.36	0.00
Yellow-breasted Chat	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	265.53	7.44	0.00
Yellow-breasted Chat	p(date + date^2) + ψ(latitude) + γ(1) + ε(hii)	8	265.57	7.48	0.00
Yellow-breasted Chat	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	8	265.74	7.65	0.00
Yellow-breasted Chat	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	265.75	7.66	0.00
Yellow-breasted Chat	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	265.75	7.66	0.00
Yellow-breasted Chat	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	265.76	7.67	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	8	265.78	7.70	0.00
Yellow-breasted Chat	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	265.86	7.77	0.00
Yellow-breasted Chat	p(date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	265.96	7.87	0.00
Yellow-breasted Chat	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	10	266.05	7.96	0.00
Yellow-breasted Chat	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	15	266.17	8.08	0.00
Yellow-breasted Chat	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	266.17	8.08	0.00
Yellow-breasted Chat	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	266.19	8.11	0.00
Yellow-breasted Chat	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	266.30	8.21	0.00
Yellow-breasted Chat	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	266.30	8.21	0.00
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	496.29	0.00	0.16
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(Δprecip)	15	497.80	1.52	0.07
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	498.21	1.93	0.06
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	498.68	2.39	0.05
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp)	15	498.73	2.44	0.05
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	16	499.07	2.78	0.04
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	499.13	2.84	0.04
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	499.87	3.58	0.03
Spotted Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	499.90	3.61	0.03
Spotted Towhee	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	499.96	3.67	0.03
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	16	500.14	3.85	0.02
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	500.24	3.95	0.02
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(Δprecip)	14	500.45	4.16	0.02
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	16	500.63	4.34	0.02
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	500.65	4.36	0.02
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	501.16	4.88	0.01
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	501.20	4.91	0.01
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	501.32	5.03	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	501.41	5.12	0.01
Spotted Towhee	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	501.41	5.12	0.01
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp)	14	501.46	5.17	0.01
Spotted Towhee	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	501.49	5.20	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	501.55	5.27	0.01
Spotted Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	501.72	5.43	0.01
Spotted Towhee	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	501.74	5.45	0.01
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	501.89	5.60	0.01
Spotted Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	501.96	5.68	0.01
Spotted Towhee	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	502.00	5.71	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	502.14	5.85	0.01
Spotted Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	502.26	5.97	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	502.27	5.98	0.01
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	502.30	6.01	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	502.35	6.06	0.01
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	502.49	6.21	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	502.62	6.33	0.01

Species	Model	k	AICc	ΔAICc	Weight
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	16	502.71	6.42	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	502.78	6.49	0.01
Spotted Towhee	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	502.99	6.70	0.01
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	503.10	6.81	0.01
Spotted Towhee	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	503.32	7.03	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	503.52	7.23	0.00
Spotted Towhee	p(observer + date) + ψ(1) + γ(1) + ε(hii + Δtemp)	15	503.56	7.28	0.00
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	503.59	7.30	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	503.64	7.35	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	15	503.78	7.50	0.00
Spotted Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	503.79	7.50	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	503.85	7.56	0.00
Spotted Towhee	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	9	503.88	7.59	0.00
Spotted Towhee	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	503.89	7.61	0.00
Spotted Towhee	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	503.92	7.64	0.00
Spotted Towhee	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp)	8	503.97	7.68	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	504.01	7.72	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	504.16	7.88	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	504.21	7.92	0.00
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	504.29	8.00	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	504.38	8.09	0.00
Spotted Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	504.39	8.10	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	504.43	8.15	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	504.61	8.33	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	504.68	8.39	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	16	504.87	8.58	0.00
Spotted Towhee	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	17	505.14	8.86	0.00
Spotted Towhee	p(date + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	505.15	8.86	0.00
Spotted Towhee	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	505.18	8.89	0.00
Spotted Towhee	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	505.24	8.95	0.00
Spotted Towhee	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	505.41	9.13	0.00
California Towhee	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	391.95	0.00	0.22
California Towhee	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	392.51	0.56	0.16
California Towhee	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	393.68	1.72	0.09
California Towhee	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	394.10	2.15	0.07
California Towhee	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	394.13	2.18	0.07
California Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	394.35	2.40	0.06
California Towhee	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	394.71	2.76	0.05
California Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	394.90	2.95	0.05
California Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	396.12	4.17	0.03
California Towhee	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	396.47	4.51	0.02
California Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	396.53	4.58	0.02
California Towhee	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	396.61	4.66	0.02
California Towhee	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	396.62	4.67	0.02
California Towhee	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	396.65	4.70	0.02
California Towhee	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	396.94	4.99	0.02
California Towhee	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	397.14	5.18	0.02
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	116.71	0.00	0.05
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	116.74	0.03	0.05
Rufous-crowned	p(1) + ψ(hPrecip) + γ(1) + ε(1)	5	116.82	0.11	0.04

Species	Model	k	AICc	ΔAICc	Weight
Sparrow					
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	116.88	0.17	0.04
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	117.33	0.62	0.03
Rufous-crowned Sparrow	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	117.47	0.76	0.03
Rufous-crowned Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	117.71	1.00	0.03
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	117.75	1.04	0.03
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	117.90	1.19	0.03
Rufous-crowned Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	118.15	1.44	0.02
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	118.32	1.61	0.02
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(1) + ε(1)	4	118.72	2.01	0.02
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	118.78	2.07	0.02
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(1) + ε(1)	5	118.89	2.18	0.02
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	118.93	2.22	0.02
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	118.93	2.22	0.02
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(1) + ε(1)	6	118.95	2.24	0.02
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	118.95	2.25	0.02
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	118.95	2.25	0.02
Rufous-crowned Sparrow	p(1) + ψ(hPrecip) + γ(1) + ε(Δprecip)	6	119.01	2.30	0.02
Rufous-crowned Sparrow	p(1) + ψ(hPrecip) + γ(1) + ε(hii)	6	119.01	2.30	0.02
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	119.13	2.42	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	119.13	2.42	0.01
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	119.44	2.73	0.01
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(Δtemp)	6	119.51	2.80	0.01
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(hii)	6	119.51	2.80	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	119.72	3.01	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	119.72	3.01	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(1) + ε(1)	6	119.74	3.03	0.01
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(1) + ε(1)	6	119.80	3.09	0.01
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(1) + ε(1)	5	119.95	3.24	0.01
Rufous-crowned Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	119.96	3.25	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	120.04	3.33	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	120.16	3.45	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	120.19	3.48	0.01
Rufous-crowned	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	120.28	3.57	0.01

Species	Model	k	AICc	ΔAICc	Weight
Sparrow					
Rufous-crowned Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	7	120.36	3.65	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	120.55	3.84	0.01
Rufous-crowned Sparrow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	120.58	3.88	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	120.61	3.90	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	120.61	3.90	0.01
Rufous-crowned Sparrow	p(1) + ψ(elevation) + γ(1) + ε(1)	5	120.61	3.90	0.01
Rufous-crowned Sparrow	p(date) + ψ(1) + γ(1) + ε(1)	5	120.86	4.15	0.01
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(1) + ε(Δprecip)	5	120.87	4.16	0.01
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(1) + ε(hii)	5	120.87	4.16	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	121.02	4.31	0.01
Rufous-crowned Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	121.06	4.35	0.01
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(1) + ε(Δprecip)	6	121.07	4.37	0.01
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(1) + ε(Δtemp)	6	121.07	4.37	0.01
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(1) + ε(hii)	6	121.07	4.37	0.01
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	121.10	4.39	0.01
Rufous-crowned Sparrow	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	7	121.13	4.42	0.01
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	121.17	4.46	0.01
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(1) + ε(hii)	7	121.17	4.46	0.01
Rufous-crowned Sparrow	p(era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	121.18	4.47	0.01
Rufous-crowned Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	121.21	4.50	0.01
Rufous-crowned Sparrow	p(1) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	7	121.22	4.51	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	121.41	4.71	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp) + γ(1) + ε(1)	7	121.66	4.95	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	121.66	4.95	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(hii)	7	121.66	4.95	0.00
Rufous-crowned Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	7	121.73	5.02	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	121.93	5.22	0.00
Rufous-crowned Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	121.95	5.24	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	121.96	5.25	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(1) + ε(Δtemp)	7	121.96	5.25	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	121.96	5.25	0.00
Rufous-crowned Sparrow	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	121.98	5.27	0.00
Rufous-crowned	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	9	122.00	5.29	0.00

Species	Model	k	AICc	ΔAICc	Weight
Sparrow					
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	122.02	5.31	0.00
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(1) + ε(Δtemp)	7	122.02	5.31	0.00
Rufous-crowned Sparrow	p(era) + ψ(latitude) + γ(1) + ε(hii)	7	122.02	5.31	0.00
Rufous-crowned Sparrow	p(date) + ψ(latitude) + γ(1) + ε(1)	6	122.11	5.40	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(1) + ε(Δprecip)	6	122.14	5.43	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(1) + ε(Δtemp)	6	122.14	5.43	0.00
Rufous-crowned Sparrow	p(1) + ψ(latitude) + γ(1) + ε(hii)	6	122.14	5.43	0.00
Rufous-crowned Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	122.25	5.54	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(latitude) + γ(1) + ε(Δprecip)	8	122.41	5.70	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	122.41	5.70	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	122.51	5.80	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	122.52	5.81	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	122.53	5.82	0.00
Rufous-crowned Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	8	122.61	5.91	0.00
Rufous-crowned Sparrow	p(date) + ψ(elevation) + γ(1) + ε(1)	6	122.78	6.07	0.00
Rufous-crowned Sparrow	p(1) + ψ(elevation) + γ(1) + ε(Δprecip)	6	122.79	6.08	0.00
Rufous-crowned Sparrow	p(1) + ψ(elevation) + γ(1) + ε(hii)	6	122.79	6.08	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δprecip)	8	122.80	6.09	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii)	8	122.80	6.09	0.00
Rufous-crowned Sparrow	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	122.80	6.09	0.00
Rufous-crowned Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	122.80	6.09	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	122.93	6.22	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(1) + γ(1) + ε(1)	6	123.04	6.34	0.00
Rufous-crowned Sparrow	p(date) + ψ(1) + γ(1) + ε(Δprecip)	6	123.05	6.34	0.00
Rufous-crowned Sparrow	p(date) + ψ(1) + γ(1) + ε(Δtemp)	6	123.05	6.34	0.00
Rufous-crowned Sparrow	p(date) + ψ(1) + γ(1) + ε(hii)	6	123.05	6.34	0.00
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	6	123.06	6.35	0.00
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(1) + ε(hii + Δprecip)	6	123.06	6.35	0.00
Rufous-crowned Sparrow	p(1) + ψ(1) + γ(1) + ε(hii + Δtemp)	6	123.06	6.35	0.00
Rufous-crowned Sparrow	p(era) + ψ(1) + γ(1) + ε(hii + Δprecip)	7	123.29	6.58	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	123.30	6.59	0.00
Rufous-crowned Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	123.30	6.59	0.00
Rufous-crowned	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	123.30	6.59	0.00

Species	Model	k	AICc	ΔAICc	Weight
Sparrow					
Rufous-crowned Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	123.31	6.60	0.00
Rufous-crowned Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	123.31	6.60	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	123.38	6.67	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	8	123.38	6.67	0.00
Rufous-crowned Sparrow	p(date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	8	123.42	6.71	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	123.91	7.20	0.00
Rufous-crowned Sparrow	p(date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	8	123.91	7.20	0.00
Rufous-crowned Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	123.91	7.20	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	17	455.92	0.00	0.38
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	458.43	2.51	0.11
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	16	458.78	2.85	0.09
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	18	459.12	3.20	0.08
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	17	459.22	3.30	0.07
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	460.20	4.28	0.04
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	461.33	5.41	0.03
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	461.51	5.59	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	15	462.16	6.24	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	17	462.32	6.40	0.02
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	462.71	6.79	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	462.83	6.90	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	463.11	7.19	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	463.19	7.27	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	463.69	7.77	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	463.74	7.81	0.01
Chipping Sparrow	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	464.06	8.13	0.01
Chipping Sparrow	p(date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	9	464.10	8.18	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	16	464.27	8.35	0.01
Chipping Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	464.62	8.70	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	464.93	9.01	0.00
Chipping Sparrow	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	464.99	9.07	0.00
Chipping Sparrow	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	16	465.26	9.34	0.00
Chipping Sparrow	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	15	465.42	9.49	0.00
Chipping Sparrow	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	10	466.00	10.08	0.00
Lark Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	262.89	0.00	0.25
Lark Sparrow	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	263.75	0.86	0.16
Lark Sparrow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	264.21	1.33	0.13
Lark Sparrow	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	265.21	2.32	0.08
Lark Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	265.40	2.52	0.07
Lark Sparrow	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	265.68	2.80	0.06
Lark Sparrow	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	266.73	3.84	0.04
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	266.85	3.96	0.03
Lark Sparrow	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	266.98	4.10	0.03
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	268.23	5.34	0.02
Lark Sparrow	p(observer) + ψ(1) + γ(1) + ε(Δtemp)	13	269.25	6.36	0.01
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	269.41	6.52	0.01
Lark Sparrow	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	269.58	6.69	0.01

Species	Model	k	AICc	ΔAICc	Weight
Lark Sparrow	p(observer) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	14	269.67	6.78	0.01
Lark Sparrow	p(observer) + ψ(1) + γ(1) + ε(hii + Δtemp)	14	270.48	7.60	0.01
Lark Sparrow	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	270.53	7.65	0.01
Lark Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	270.87	7.99	0.00
Lark Sparrow	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	270.99	8.10	0.00
Lark Sparrow	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	271.25	8.36	0.00
Lark Sparrow	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp)	14	271.33	8.45	0.00
Lark Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	271.40	8.51	0.00
Lark Sparrow	p(observer + date) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	15	271.41	8.52	0.00
Lark Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	271.73	8.84	0.00
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	95.88	0.00	0.28
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	97.34	1.47	0.14
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	98.00	2.12	0.10
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	98.22	2.34	0.09
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	99.01	3.13	0.06
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	99.32	3.44	0.05
Savannah Sparrow	p(date + era) + ψ(1) + γ(1) + ε(1)	6	99.79	3.91	0.04
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	99.97	4.09	0.04
Savannah Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	100.56	4.68	0.03
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	101.52	5.64	0.02
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	101.65	5.77	0.02
Savannah Sparrow	p(date + era) + ψ(1) + γ(1) + ε(hii)	7	101.81	5.93	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	102.07	6.19	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δprecip)	8	102.20	6.33	0.01
Savannah Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	102.25	6.37	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii)	8	102.61	6.73	0.01
Savannah Sparrow	p(date + era) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	9	103.27	7.40	0.01
Savannah Sparrow	p(date + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	8	103.28	7.40	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	9	103.80	7.92	0.01
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	9	104.05	8.17	0.00
Savannah Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	104.20	8.32	0.00
Savannah Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	104.23	8.35	0.00
Savannah Sparrow	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	9	104.32	8.45	0.00
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	7	119.06	0.00	0.14
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	120.02	0.96	0.09
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	120.16	1.10	0.08
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	120.79	1.72	0.06
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	8	121.30	2.24	0.05
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	121.83	2.77	0.04
Fox Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	8	122.03	2.97	0.03
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	122.28	3.22	0.03
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	122.44	3.37	0.03
Fox Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	122.62	3.56	0.02
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	123.04	3.98	0.02
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	123.08	4.02	0.02
Fox Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	123.30	4.24	0.02
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(hii)	6	123.55	4.49	0.02
Fox Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	123.72	4.65	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	7	123.84	4.78	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(1)	5	123.89	4.83	0.01
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	124.12	5.06	0.01

Species	Model	k	AICc	ΔAICc	Weight
Fox Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	9	124.29	5.23	0.01
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	124.69	5.63	0.01
Fox Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	124.74	5.68	0.01
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	124.84	5.78	0.01
Fox Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	124.94	5.88	0.01
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	125.01	5.95	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	7	125.03	5.97	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(Δtemp)	6	125.04	5.98	0.01
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(hii)	7	125.05	5.99	0.01
Fox Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(hii)	6	125.11	6.05	0.01
Fox Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	125.13	6.06	0.01
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	125.18	6.12	0.01
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(1)	6	125.21	6.15	0.01
Fox Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	125.56	6.50	0.01
Fox Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(1)	5	125.56	6.50	0.01
Fox Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	125.59	6.53	0.01
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	125.60	6.54	0.01
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	125.61	6.54	0.01
Fox Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	7	125.61	6.55	0.01
Fox Sparrow	p(1) + ψ(elevation) + γ(1) + ε(Δprecip)	6	125.65	6.59	0.01
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(Δtemp)	7	125.77	6.71	0.01
Fox Sparrow	p(date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	125.94	6.88	0.00
Fox Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	10	126.02	6.96	0.00
Fox Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	7	126.15	7.09	0.00
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	126.16	7.10	0.00
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	126.32	7.26	0.00
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	126.33	7.27	0.00
Fox Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	126.39	7.33	0.00
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	126.52	7.46	0.00
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	126.53	7.47	0.00
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	126.57	7.51	0.00
Fox Sparrow	p(1) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	6	126.58	7.52	0.00
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	126.64	7.58	0.00
Fox Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(hii)	7	126.73	7.67	0.00
Fox Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	126.87	7.81	0.00
Fox Sparrow	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	126.88	7.82	0.00
Fox Sparrow	p(1) + ψ(hTemp) + γ(1) + ε(Δtemp)	6	126.88	7.82	0.00
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	126.90	7.84	0.00
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	126.94	7.88	0.00
Fox Sparrow	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	126.98	7.92	0.00
Fox Sparrow	p(date) + ψ(elevation) + γ(1) + ε(Δprecip)	7	126.99	7.93	0.00
Fox Sparrow	p(1) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	7	127.09	8.03	0.00
Fox Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(1)	6	127.10	8.04	0.00
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(hii)	8	127.22	8.16	0.00
Fox Sparrow	p(date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	127.22	8.16	0.00
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(1)	7	127.28	8.22	0.00
Fox Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	127.36	8.30	0.00
Fox Sparrow	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	127.36	8.30	0.00
Fox Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	127.42	8.36	0.00
Fox Sparrow	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	11	127.46	8.40	0.00
Fox Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	127.47	8.41	0.00

Species	Model	k	AICc	ΔAICc	Weight
Fox Sparrow	p(date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	8	127.66	8.60	0.00
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	127.77	8.71	0.00
Fox Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	127.79	8.73	0.00
Fox Sparrow	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	127.94	8.88	0.00
Fox Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	128.02	8.96	0.00
Fox Sparrow	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	128.04	8.98	0.00
Fox Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	128.09	9.03	0.00
Fox Sparrow	p(date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	128.15	9.09	0.00
Fox Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	128.17	9.11	0.00
Fox Sparrow	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	128.21	9.15	0.00
Fox Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	128.23	9.17	0.00
Fox Sparrow	p(era) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	8	128.25	9.18	0.00
Song Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	428.83	0.00	0.15
Song Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	428.84	0.01	0.15
Song Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	429.60	0.77	0.10
Song Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	429.94	1.11	0.08
Song Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	430.67	1.84	0.06
Song Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	430.77	1.94	0.06
Song Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	430.89	2.06	0.05
Song Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	431.08	2.25	0.05
Song Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	431.55	2.72	0.04
Song Sparrow	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	431.84	3.01	0.03
Song Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	432.20	3.37	0.03
Song Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	432.42	3.60	0.02
Song Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	432.63	3.81	0.02
Song Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	432.93	4.10	0.02
Song Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	433.15	4.32	0.02
Song Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	433.43	4.60	0.01
Song Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	433.74	4.91	0.01
Song Sparrow	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	433.82	4.99	0.01
Song Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	434.53	5.70	0.01
Song Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	434.59	5.77	0.01
Song Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	434.72	5.90	0.01
Song Sparrow	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	434.84	6.02	0.01
Song Sparrow	p(era) + ψ(elevation) + γ(1) + ε(1)	6	434.88	6.05	0.01
Song Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	435.33	6.50	0.01
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	281.38	0.00	0.25
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	282.57	1.19	0.14
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	282.90	1.52	0.11
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	283.58	2.20	0.08
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	283.81	2.43	0.07
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	284.54	3.16	0.05
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	284.81	3.43	0.04
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	285.05	3.68	0.04
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	285.18	3.80	0.04
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	285.37	3.99	0.03
White-crowned Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	286.04	4.66	0.02
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	286.05	4.67	0.02
White-crowned Sparrow	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	286.11	4.73	0.02
White-crowned Sparrow	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	286.99	5.61	0.01
White-crowned Sparrow	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	287.06	5.69	0.01

Species	Model	k	AICc	ΔAICc	Weight
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	488.14	0.00	0.08
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	488.71	0.58	0.06
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	488.84	0.70	0.06
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	490.42	2.29	0.03
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	490.42	2.29	0.03
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	490.42	2.29	0.03
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	490.43	2.30	0.03
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(1)	6	490.53	2.39	0.02
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	490.73	2.59	0.02
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(1)	8	490.74	2.61	0.02
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	490.87	2.74	0.02
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(1) + ε(1)	6	491.11	2.97	0.02
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	491.11	2.98	0.02
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	491.13	2.99	0.02
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii)	9	491.13	2.99	0.02
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	491.19	3.05	0.02
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	491.19	3.05	0.02
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	491.19	3.05	0.02
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(1) + ε(1)	7	491.31	3.18	0.02
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(1)	7	491.41	3.28	0.02
Dark-Eyed Junco	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	491.99	3.85	0.01
Dark-Eyed Junco	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	492.51	4.37	0.01
Dark-Eyed Junco	p(observer) + ψ(1) + γ(1) + ε(1)	12	492.52	4.38	0.01
Dark-Eyed Junco	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	492.72	4.59	0.01
Dark-Eyed Junco	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	492.74	4.60	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	492.74	4.61	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	492.74	4.61	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	492.74	4.61	0.01
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	492.75	4.61	0.01
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	492.75	4.61	0.01
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	492.75	4.61	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	10	492.76	4.62	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	9	493.03	4.89	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii)	9	493.03	4.89	0.01
Dark-Eyed Junco	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	493.03	4.90	0.01
Dark-Eyed Junco	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	493.11	4.97	0.01
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	493.13	4.99	0.01
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	493.13	4.99	0.01
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	493.13	4.99	0.01
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	493.20	5.07	0.01
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	493.20	5.07	0.01
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	493.33	5.19	0.01
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(1) + ε(hii)	7	493.33	5.19	0.01
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	493.41	5.28	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	10	493.45	5.31	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(1)	8	493.49	5.35	0.01
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	8	493.57	5.43	0.01
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(1) + ε(hii)	8	493.57	5.43	0.01
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	493.62	5.49	0.01
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	493.62	5.49	0.01
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	493.62	5.49	0.01

Species	Model	k	AICc	ΔAICc	Weight
Dark-Eyed Junco	p(era) + ψ(1) + γ(1) + ε(1)	5	493.65	5.51	0.01
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	493.65	5.52	0.01
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	493.65	5.52	0.01
Dark-Eyed Junco	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	493.65	5.52	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δprecip)	8	493.66	5.53	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp)	8	493.66	5.53	0.01
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii)	8	493.66	5.53	0.01
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	493.70	5.56	0.01
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	493.70	5.56	0.01
Dark-Eyed Junco	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	493.70	5.56	0.01
Dark-Eyed Junco	p(date + era) + ψ(1) + γ(1) + ε(1)	6	494.03	5.89	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	494.40	6.26	0.00
Dark-Eyed Junco	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	494.46	6.32	0.00
Dark-Eyed Junco	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	494.46	6.32	0.00
Dark-Eyed Junco	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	494.72	6.58	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	494.76	6.62	0.00
Dark-Eyed Junco	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	494.76	6.62	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	494.86	6.73	0.00
Dark-Eyed Junco	p(observer + date) + ψ(1) + γ(1) + ε(1)	13	494.90	6.76	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(1) + ε(Δprecip)	13	494.95	6.82	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(1) + ε(Δtemp)	13	494.95	6.82	0.00
Dark-Eyed Junco	p(observer) + ψ(1) + γ(1) + ε(hii)	13	494.95	6.82	0.00
Dark-Eyed Junco	p(era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	7	494.95	6.82	0.00
Dark-Eyed Junco	p(era) + ψ(hPrecip) + γ(1) + ε(hii)	7	494.95	6.82	0.00
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	495.00	6.86	0.00
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	495.00	6.86	0.00
Dark-Eyed Junco	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	495.00	6.86	0.00
Dark-Eyed Junco	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	9	495.01	6.87	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	495.09	6.95	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	495.10	6.96	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	495.11	6.98	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	495.23	7.09	0.00
Dark-Eyed Junco	p(date + era) + ψ(hPrecip) + γ(1) + ε(Δprecip)	8	495.28	7.15	0.00
Dark-Eyed Junco	p(date + era) + ψ(hPrecip) + γ(1) + ε(hii)	8	495.28	7.15	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	10	495.35	7.21	0.00
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	495.41	7.27	0.00
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	495.41	7.27	0.00
Dark-Eyed Junco	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	495.41	7.27	0.00
Dark-Eyed Junco	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	495.58	7.44	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	495.62	7.48	0.00
Dark-Eyed Junco	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	495.62	7.48	0.00
Dark-Eyed Junco	p(era) + ψ(latitude) + γ(1) + ε(1)	6	495.67	7.53	0.00
Dark-Eyed Junco	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	495.71	7.58	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δprecip)	9	495.78	7.64	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(Δtemp)	9	495.78	7.64	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(latitude) + γ(1) + ε(hii)	9	495.78	7.64	0.00
Dark-Eyed Junco	p(era) + ψ(1) + γ(1) + ε(Δprecip)	6	495.83	7.69	0.00
Dark-Eyed Junco	p(era) + ψ(1) + γ(1) + ε(Δtemp)	6	495.83	7.69	0.00
Dark-Eyed Junco	p(era) + ψ(1) + γ(1) + ε(hii)	6	495.83	7.69	0.00
Dark-Eyed Junco	p(date + era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	9	495.85	7.71	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	9	495.95	7.81	0.00

Species	Model	k	AICc	ΔAICc	Weight
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δprecip)	9	495.95	7.81	0.00
Dark-Eyed Junco	p(date + date^2 + era) + ψ(1) + γ(1) + ε(hii + Δtemp)	9	495.95	7.81	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	495.96	7.83	0.00
Dark-Eyed Junco	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	495.96	7.83	0.00
Dark-Eyed Junco	p(date + era) + ψ(latitude) + γ(1) + ε(1)	7	496.11	7.97	0.00
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	496.18	8.04	0.00
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	496.18	8.04	0.00
Dark-Eyed Junco	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	496.18	8.04	0.00
Dark-Eyed Junco	p(date + era) + ψ(1) + γ(1) + ε(Δprecip)	7	496.25	8.11	0.00
Dark-Eyed Junco	p(date + era) + ψ(1) + γ(1) + ε(Δtemp)	7	496.25	8.11	0.00
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	470.94	0.00	0.75
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	473.73	2.79	0.19
Western Tanager	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	477.67	6.73	0.03
Black-headed Grosbeak	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	588.14	0.00	0.42
Black-headed Grosbeak	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	589.47	1.33	0.22
Black-headed Grosbeak	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	590.65	2.51	0.12
Black-headed Grosbeak	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	591.80	3.66	0.07
Black-headed Grosbeak	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	592.02	3.88	0.06
Black-headed Grosbeak	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	592.63	4.49	0.04
Black-headed Grosbeak	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	594.05	5.91	0.02
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(1)	14	442.87	0.00	0.15
Lazuli Bunting	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	443.28	0.41	0.12
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp)	15	444.64	1.77	0.06
Lazuli Bunting	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	444.79	1.92	0.06
Lazuli Bunting	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	445.02	2.15	0.05
Lazuli Bunting	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	445.19	2.32	0.05
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp)	16	445.21	2.35	0.05
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	445.28	2.42	0.04
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δprecip)	15	445.31	2.44	0.04
Lazuli Bunting	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	445.31	2.44	0.04
Lazuli Bunting	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(1)	15	445.35	2.48	0.04
Lazuli Bunting	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	445.79	2.92	0.03
Lazuli Bunting	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	446.27	3.41	0.03
Lazuli Bunting	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	446.95	4.08	0.02
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(Δtemp + Δprecip)	16	447.13	4.26	0.02
Lazuli Bunting	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δtemp)	16	447.15	4.28	0.02
Lazuli Bunting	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	447.30	4.43	0.02
Lazuli Bunting	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	447.48	4.62	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	447.66	4.79	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	447.75	4.88	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δtemp + Δprecip)	17	447.78	4.92	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	447.79	4.92	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii + Δprecip)	16	447.79	4.92	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	17	447.79	4.93	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	447.82	4.95	0.01
Lazuli Bunting	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(Δprecip)	16	447.83	4.96	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	280.25	0.00	0.35
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	282.37	2.12	0.12
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	282.45	2.21	0.12
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	282.81	2.57	0.10
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	284.92	4.67	0.03

Species	Model	k	AICc	ΔAICc	Weight
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	285.00	4.76	0.03
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	285.00	4.76	0.03
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	285.00	4.76	0.03
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	285.66	5.42	0.02
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	286.86	6.61	0.01
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	287.01	6.76	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	287.29	7.04	0.01
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	287.35	7.11	0.01
Red-winged Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	287.47	7.22	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	287.60	7.35	0.01
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	287.60	7.35	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	287.74	7.49	0.01
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	287.85	7.60	0.01
Red-winged Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	288.42	8.17	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	288.52	8.27	0.01
Red-winged Blackbird	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	288.84	8.59	0.00
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	378.20	0.00	0.19
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	378.90	0.70	0.14
Western Meadowlark	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	380.02	1.82	0.08
Western Meadowlark	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	380.09	1.89	0.07
Western Meadowlark	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	380.34	2.14	0.07
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	380.65	2.44	0.06
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	380.67	2.47	0.06
Western Meadowlark	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	380.75	2.55	0.05
Western Meadowlark	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	380.89	2.69	0.05
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	381.26	3.06	0.04
Western Meadowlark	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	381.69	3.49	0.03
Western Meadowlark	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	382.33	4.12	0.02
Western Meadowlark	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	382.74	4.54	0.02
Western Meadowlark	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	383.59	5.38	0.01
Western Meadowlark	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	384.07	5.87	0.01
Western Meadowlark	p(observer + date) + ψ(1) + γ(1) + ε(hii)	14	384.57	6.37	0.01
Western Meadowlark	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	384.87	6.67	0.01
Western Meadowlark	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	384.99	6.79	0.01
Western Meadowlark	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	385.01	6.81	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(1) + γ(1) + ε(hii)	15	385.06	6.86	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	17	385.32	7.12	0.01
Western Meadowlark	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	385.33	7.13	0.01
Western Meadowlark	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	385.70	7.49	0.00
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp)	14	470.97	0.00	0.10
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	15	471.24	0.27	0.09
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(hii)	14	471.48	0.51	0.08
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	15	471.79	0.82	0.07
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	15	471.91	0.94	0.06
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	16	472.33	1.36	0.05
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(Δprecip)	14	472.59	1.62	0.05
Brewer's Blackbird	p(observer) + ψ(elevation) + γ(1) + ε(1)	13	472.83	1.86	0.04
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	473.46	2.49	0.03
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	473.71	2.74	0.03
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	16	473.78	2.81	0.03
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	473.98	3.01	0.02

Species	Model	k	AICc	ΔAICc	Weight
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	474.16	3.19	0.02
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	16	474.34	3.37	0.02
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	16	474.45	3.48	0.02
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(hii)	7	474.50	3.54	0.02
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	474.70	3.73	0.02
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	474.86	3.89	0.01
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	474.92	3.95	0.01
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	8	475.08	4.11	0.01
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	475.10	4.13	0.01
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	475.24	4.27	0.01
Brewer's Blackbird	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	475.29	4.32	0.01
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(1)	6	475.31	4.34	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	475.36	4.39	0.01
Brewer's Blackbird	p(era) + ψ(elevation) + γ(1) + ε(Δprecip)	7	475.60	4.63	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp)	16	475.82	4.85	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	475.88	4.91	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	475.91	4.94	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	17	476.08	5.11	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii)	16	476.17	5.20	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	476.40	5.43	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	476.52	5.55	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	17	476.59	5.62	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	476.76	5.79	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	17	476.86	5.89	0.01
Brewer's Blackbird	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	476.92	5.95	0.01
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	476.93	5.96	0.01
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	18	477.26	6.29	0.00
Brewer's Blackbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	477.37	6.40	0.00
Brewer's Blackbird	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(Δprecip)	16	477.40	6.43	0.00
Brown-headed Cowbird	p(era) + ψ(elevation) + γ(1) + ε(Δtemp)	7	247.52	0.00	0.22
Brown-headed Cowbird	p(era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	8	248.68	1.16	0.12
Brown-headed Cowbird	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	8	249.17	1.64	0.10
Brown-headed Cowbird	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	249.28	1.76	0.09
Brown-headed Cowbird	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	249.44	1.92	0.08
Brown-headed Cowbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	250.11	2.59	0.06
Brown-headed Cowbird	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	250.49	2.97	0.05
Brown-headed Cowbird	p(era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	9	250.55	3.03	0.05
Brown-headed Cowbird	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	250.96	3.44	0.04
Brown-headed Cowbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	251.42	3.90	0.03
Brown-headed Cowbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	251.76	4.23	0.03
Brown-headed Cowbird	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	252.40	4.88	0.02
Brown-headed Cowbird	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	11	252.89	5.36	0.02
Brown-headed Cowbird	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	253.35	5.83	0.01
Brown-headed Cowbird	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	254.21	6.69	0.01
Brown-headed Cowbird	p(era) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	8	254.53	7.01	0.01
Brown-headed Cowbird	p(era) + ψ(latitude) + γ(1) + ε(Δprecip)	7	254.55	7.02	0.01
Brown-headed Cowbird	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(Δtemp)	9	255.38	7.86	0.00
Brown-headed Cowbird	p(era) + ψ(latitude) + γ(1) + ε(hii + Δprecip)	8	255.61	8.08	0.00
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	325.65	0.00	0.23
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	327.34	1.69	0.10
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	327.58	1.93	0.09

Species	Model	k	AICc	ΔAICc	Weight
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	327.65	2.00	0.08
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	328.33	2.68	0.06
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	328.48	2.83	0.06
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	328.93	3.28	0.04
Bullock's Oriole	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	329.32	3.67	0.04
Bullock's Oriole	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	329.43	3.77	0.03
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	329.51	3.86	0.03
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	329.60	3.95	0.03
Bullock's Oriole	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	329.94	4.29	0.03
Bullock's Oriole	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	329.99	4.34	0.03
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	330.60	4.94	0.02
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	330.87	5.22	0.02
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	331.05	5.40	0.02
Bullock's Oriole	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	331.07	5.41	0.02
Bullock's Oriole	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	331.28	5.62	0.01
Bullock's Oriole	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	331.53	5.88	0.01
Bullock's Oriole	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	331.71	6.05	0.01
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	582.90	0.00	0.11
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	583.29	0.39	0.09
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	583.66	0.76	0.08
Purple Finch	p(observer) + ψ(hPrecip) + γ(1) + ε(1)	13	584.21	1.31	0.06
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	584.27	1.37	0.06
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(1) + ε(1)	14	584.66	1.77	0.05
Purple Finch	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	584.95	2.05	0.04
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	585.09	2.19	0.04
Purple Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	585.26	2.36	0.03
Purple Finch	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	585.48	2.58	0.03
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	585.57	2.67	0.03
Purple Finch	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	586.17	3.27	0.02
Purple Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	17	586.25	3.35	0.02
Purple Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	586.34	3.44	0.02
Purple Finch	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	586.43	3.53	0.02
Purple Finch	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(1)	15	586.45	3.56	0.02
Purple Finch	p(observer) + ψ(hPrecip) + γ(1) + ε(Δprecip)	14	586.48	3.58	0.02
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii)	15	586.71	3.81	0.02
Purple Finch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	586.80	3.90	0.02
Purple Finch	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	586.81	3.91	0.02
Purple Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	586.90	4.00	0.02
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(1) + ε(Δprecip)	15	586.99	4.10	0.01
Purple Finch	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	7	587.01	4.12	0.01
Purple Finch	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	9	587.06	4.16	0.01
Purple Finch	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	587.42	4.52	0.01
Purple Finch	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	588.00	5.10	0.01
Purple Finch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	588.10	5.20	0.01
Purple Finch	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	588.31	5.41	0.01
Purple Finch	p(observer) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	15	588.50	5.60	0.01
Purple Finch	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(hii)	16	588.59	5.69	0.01
Purple Finch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	8	588.65	5.75	0.01
Purple Finch	p(era) + ψ(hPrecip) + γ(1) + ε(1)	6	588.67	5.78	0.01
Purple Finch	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	588.77	5.87	0.01
Purple Finch	p(observer + date + date^2) + ψ(hPrecip) + γ(1) + ε(Δprecip)	16	588.82	5.93	0.01

Species	Model	k	AICc	ΔAICc	Weight
Purple Finch	p(date + era) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	10	588.87	5.97	0.01
Purple Finch	p(era) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	8	589.01	6.11	0.01
Purple Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	589.02	6.12	0.01
Purple Finch	p(observer + date) + ψ(hPrecip) + γ(1) + ε(hii + Δprecip)	16	589.09	6.19	0.01
Purple Finch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	589.36	6.46	0.00
Purple Finch	p(era) + ψ(hTemp) + γ(1) + ε(Δtemp)	7	589.36	6.47	0.00
Purple Finch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	590.10	7.20	0.00
Purple Finch	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp)	14	590.11	7.21	0.00
Purple Finch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	590.23	7.33	0.00
Purple Finch	p(date + era) + ψ(hPrecip) + γ(1) + ε(1)	7	590.33	7.43	0.00
House Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	14	503.55	0.00	0.40
House Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	504.38	0.83	0.27
House Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	505.95	2.40	0.12
House Finch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	506.88	3.32	0.08
House Finch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	16	508.40	4.85	0.04
House Finch	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	508.81	5.26	0.03
House Finch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	18	509.39	5.84	0.02
Pine Siskin	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	16	378.94	0.00	0.33
Pine Siskin	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	380.62	1.68	0.14
Pine Siskin	p(observer + date) + ψ(hTemp) + γ(1) + ε(hii)	15	380.88	1.94	0.13
Pine Siskin	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	17	380.89	1.95	0.12
Pine Siskin	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	382.34	3.40	0.06
Pine Siskin	p(observer) + ψ(hTemp) + γ(1) + ε(hii + Δtemp)	15	382.79	3.85	0.05
Pine Siskin	p(observer) + ψ(hTemp) + γ(1) + ε(Δtemp)	14	382.80	3.86	0.05
Pine Siskin	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(hii)	16	382.87	3.93	0.05
Pine Siskin	p(observer) + ψ(hTemp) + γ(1) + ε(1)	13	384.55	5.61	0.02
Pine Siskin	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	386.66	7.72	0.01
Lesser Goldfinch	p(observer + date) + ψ(hTemp) + γ(1) + ε(1)	14	577.86	0.00	0.24
Lesser Goldfinch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	15	578.80	0.95	0.15
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(1)	15	579.03	1.17	0.13
Lesser Goldfinch	p(observer + date) + ψ(hTemp) + γ(1) + ε(Δtemp)	15	579.65	1.79	0.10
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	16	579.82	1.96	0.09
Lesser Goldfinch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	16	580.09	2.23	0.08
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp) + γ(1) + ε(Δtemp)	16	580.88	3.03	0.05
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	17	581.18	3.32	0.05
Lesser Goldfinch	p(observer + date) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	17	582.66	4.80	0.02
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(Δtemp + Δprecip)	18	583.79	5.93	0.01
Lesser Goldfinch	p(observer + date + date^2) + ψ(hTemp + hPrecip) + γ(1) + ε(hii + Δtemp + Δprecip)	19	584.16	6.30	0.01
Lesser Goldfinch	p(date + date^2 + era) + ψ(hTemp) + γ(1) + ε(1)	8	584.51	6.65	0.01
Lesser Goldfinch	p(date + date^2 + era) + ψ(hTemp + hPrecip) + γ(1) + ε(1)	9	585.13	7.28	0.01
Lawrence's Goldfinch	p(observer + date) + ψ(latitude) + γ(1) + ε(hii)	15	187.87	0.00	0.32
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp)	15	188.07	0.19	0.29
Lawrence's Goldfinch	p(observer + date + date^2) + ψ(latitude) + γ(1) + ε(hii)	16	189.77	1.89	0.12
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	16	190.59	2.72	0.08
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(1) + ε(1)	13	192.60	4.73	0.03
Lawrence's Goldfinch	p(observer + date) + ψ(latitude) + γ(1) + ε(hii + Δtemp + Δprecip)	17	192.69	4.82	0.03
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(1) + ε(Δtemp + Δprecip)	15	192.83	4.96	0.03
Lawrence's Goldfinch	p(observer + date) + ψ(latitude) + γ(1) + ε(1)	14	193.71	5.84	0.02
Lawrence's Goldfinch	p(observer) + ψ(hTemp + hPrecip) + γ(1) + ε(hii)	15	194.22	6.35	0.01
Lawrence's Goldfinch	p(observer) + ψ(latitude) + γ(1) + ε(Δprecip)	14	195.06	7.18	0.01
Lawrence's Goldfinch	p(observer) + ψ(hPrecip) + γ(1) + ε(hii)	14	195.17	7.30	0.01

Species	Model	k	AICc	ΔAICc	Weight
Lawrence's Goldfinch	p(observer) + ψ(hTemp) + γ(1) + ε(hii)	14	195.94	8.06	0.01
Lawrence's Goldfinch	p(date + era) + ψ(latitude) + γ(1) + ε(hii)	8	196.38	8.51	0.00
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	10	365.27	0.00	0.21
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(1)	7	366.21	0.94	0.13
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(hii)	8	367.22	1.95	0.08
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	9	367.44	2.17	0.07
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	11	367.59	2.32	0.07
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(Δprecip)	8	367.60	2.32	0.07
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp)	8	367.94	2.67	0.06
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	9	368.42	3.15	0.04
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(1)	8	368.46	3.19	0.04
American Goldfinch	p(date + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	9	369.44	4.17	0.03
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii)	9	369.50	4.23	0.03
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δprecip)	10	369.76	4.49	0.02
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δprecip)	9	369.88	4.61	0.02
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp)	9	370.22	4.95	0.02
American Goldfinch	p(observer + date) + ψ(elevation) + γ(1) + ε(1)	14	370.34	5.07	0.02
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(hii + Δtemp)	10	370.74	5.47	0.01
American Goldfinch	p(observer + date) + ψ(elevation) + γ(1) + ε(hii + Δtemp + Δprecip)	17	371.12	5.85	0.01
American Goldfinch	p(observer + date) + ψ(elevation) + γ(1) + ε(hii)	15	371.72	6.45	0.01
American Goldfinch	p(date + date^2 + era) + ψ(elevation) + γ(1) + ε(Δtemp + Δprecip)	10	371.76	6.49	0.01
American Goldfinch	p(observer + date + date^2) + ψ(elevation) + γ(1) + ε(1)	15	371.97	6.70	0.01
American Goldfinch	p(observer + date) + ψ(elevation) + γ(1) + ε(Δtemp)	15	372.42	7.15	0.01
American Goldfinch	p(observer + date) + ψ(elevation) + γ(1) + ε(Δprecip)	15	372.49	7.22	0.01

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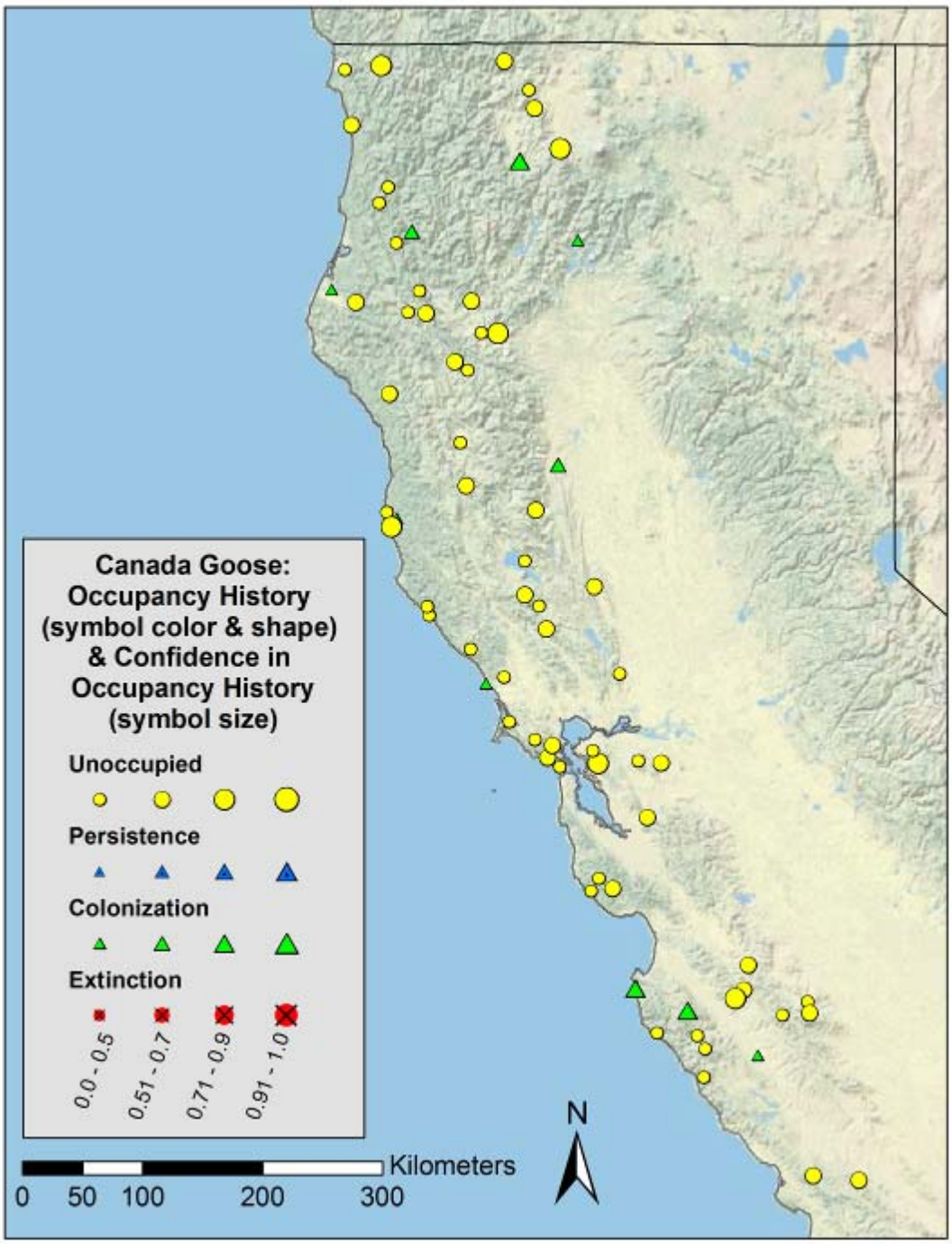
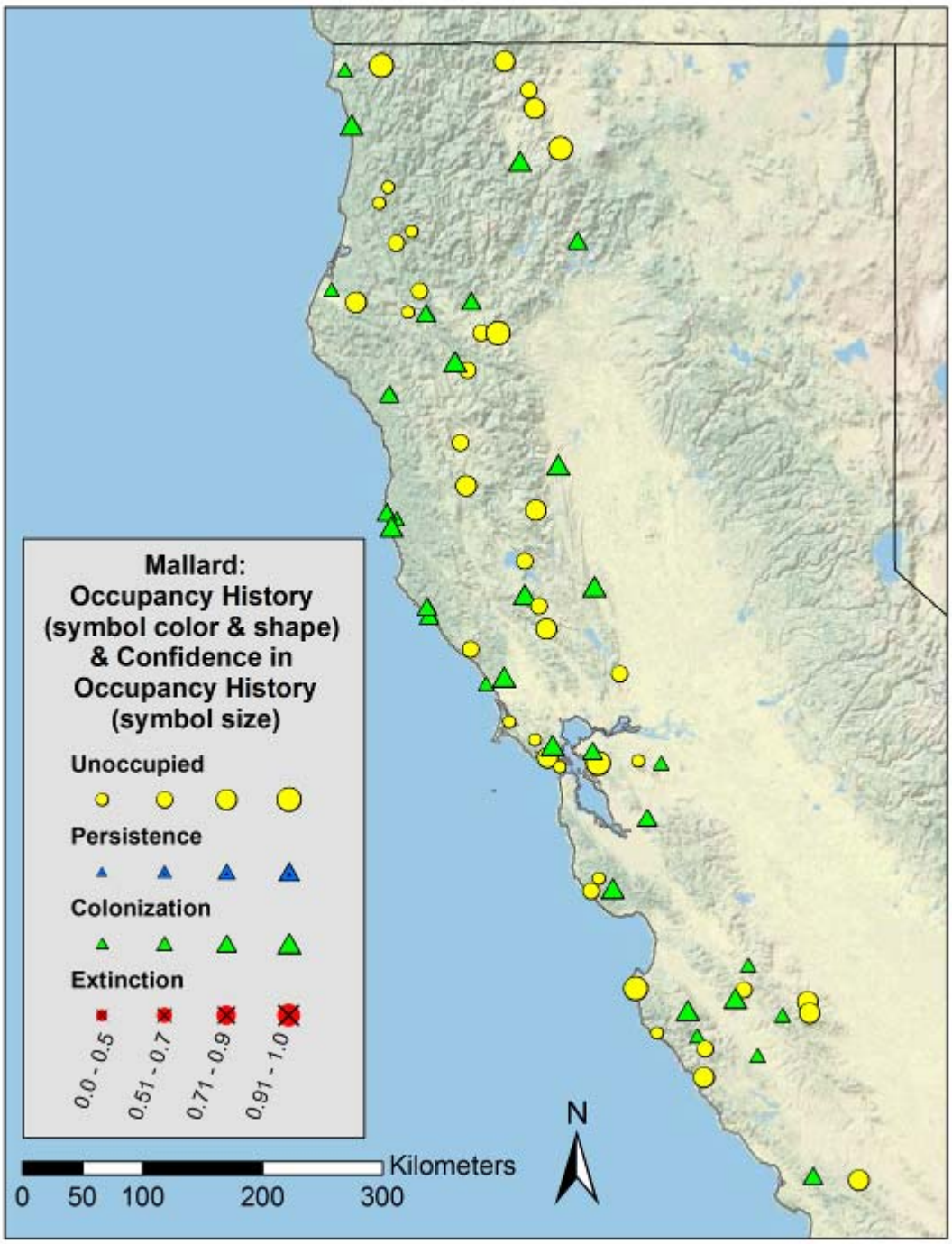
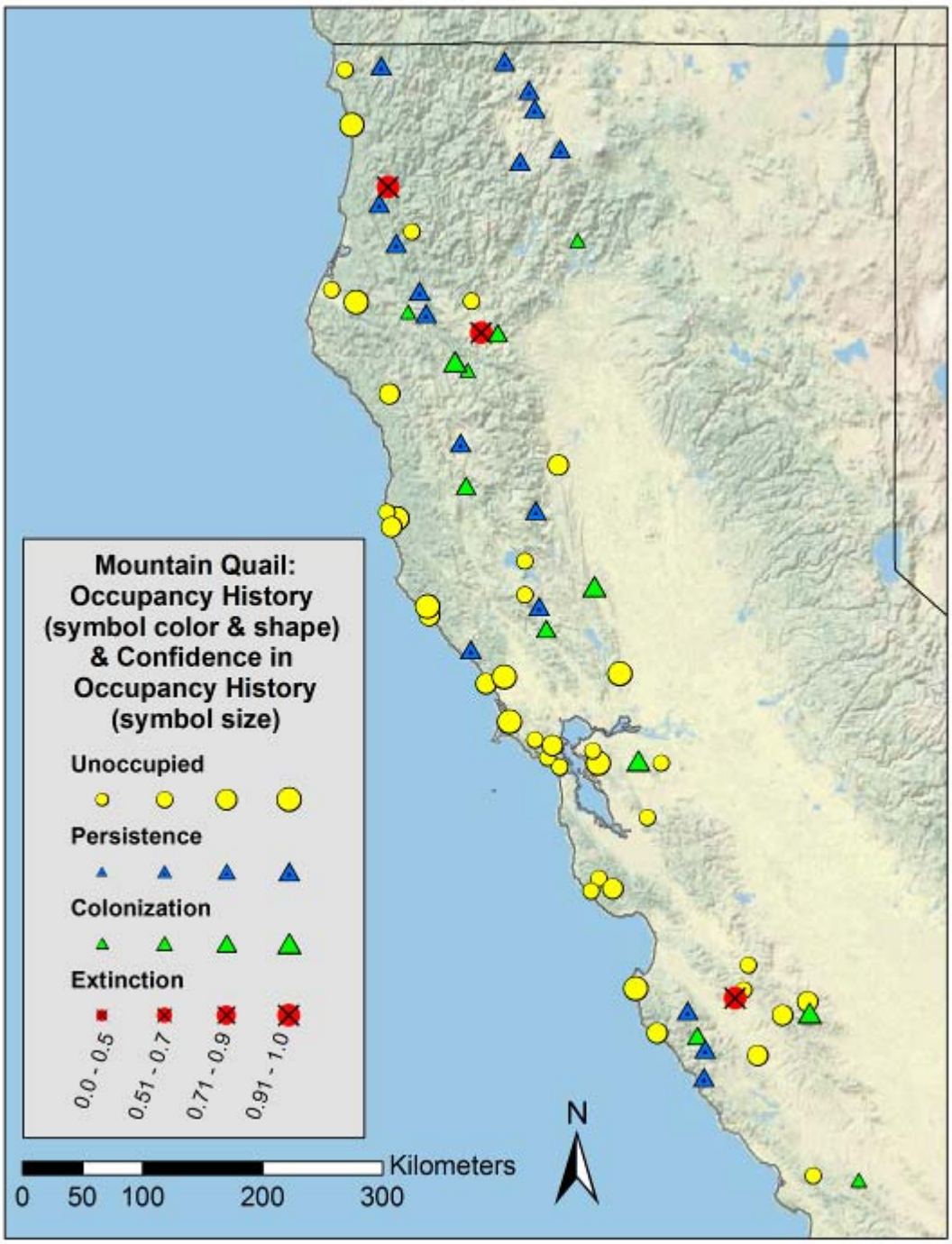
APPENDIX 5: The Probability of Occupancy for Historic (ψ_1) and Modern (ψ_2) Surveys at 70 Sites for the 100 Species Whose Site Occupancy Dynamics Modeled. 113

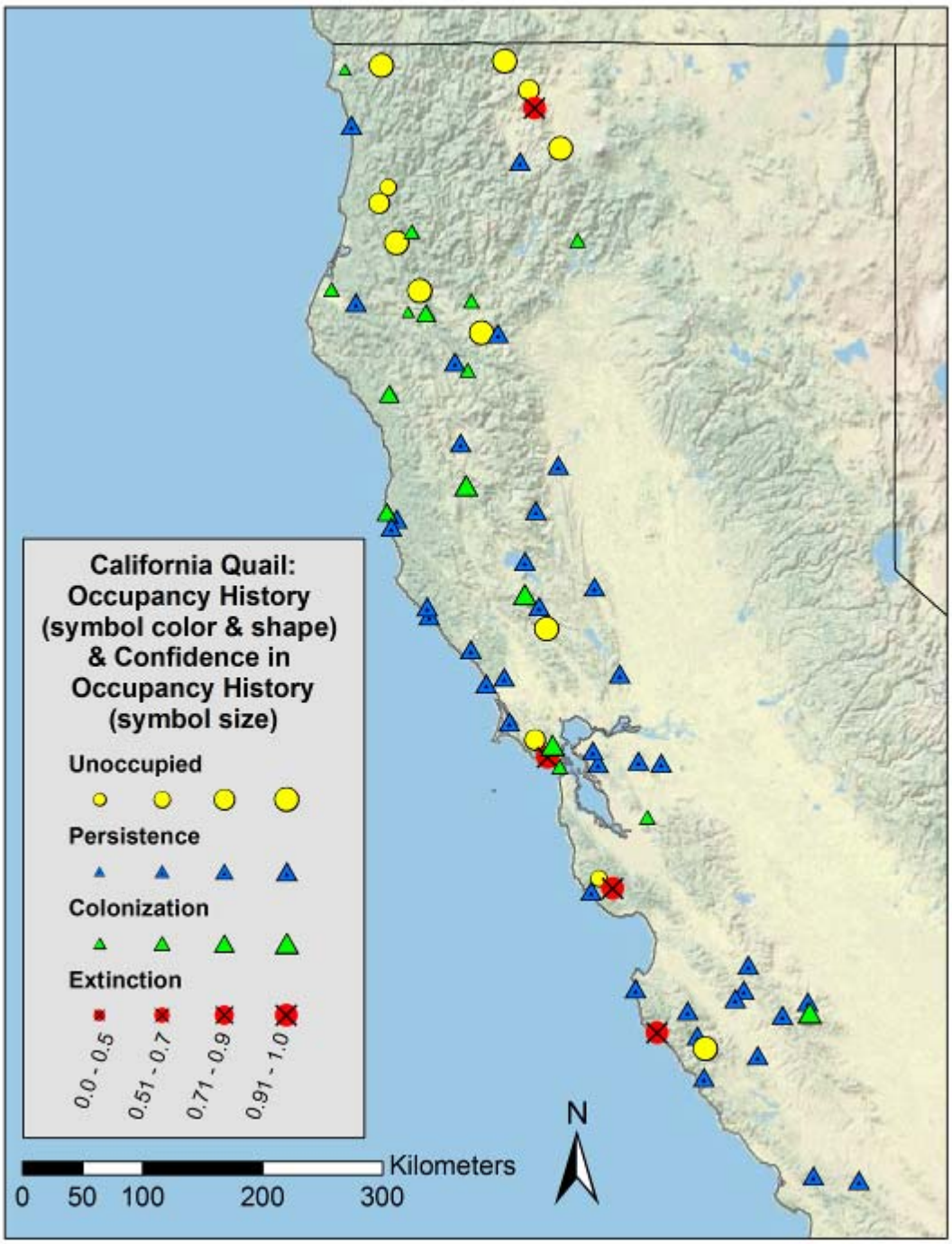
APPENDIX 4:
Maps of Each Species' Turnover Dynamics

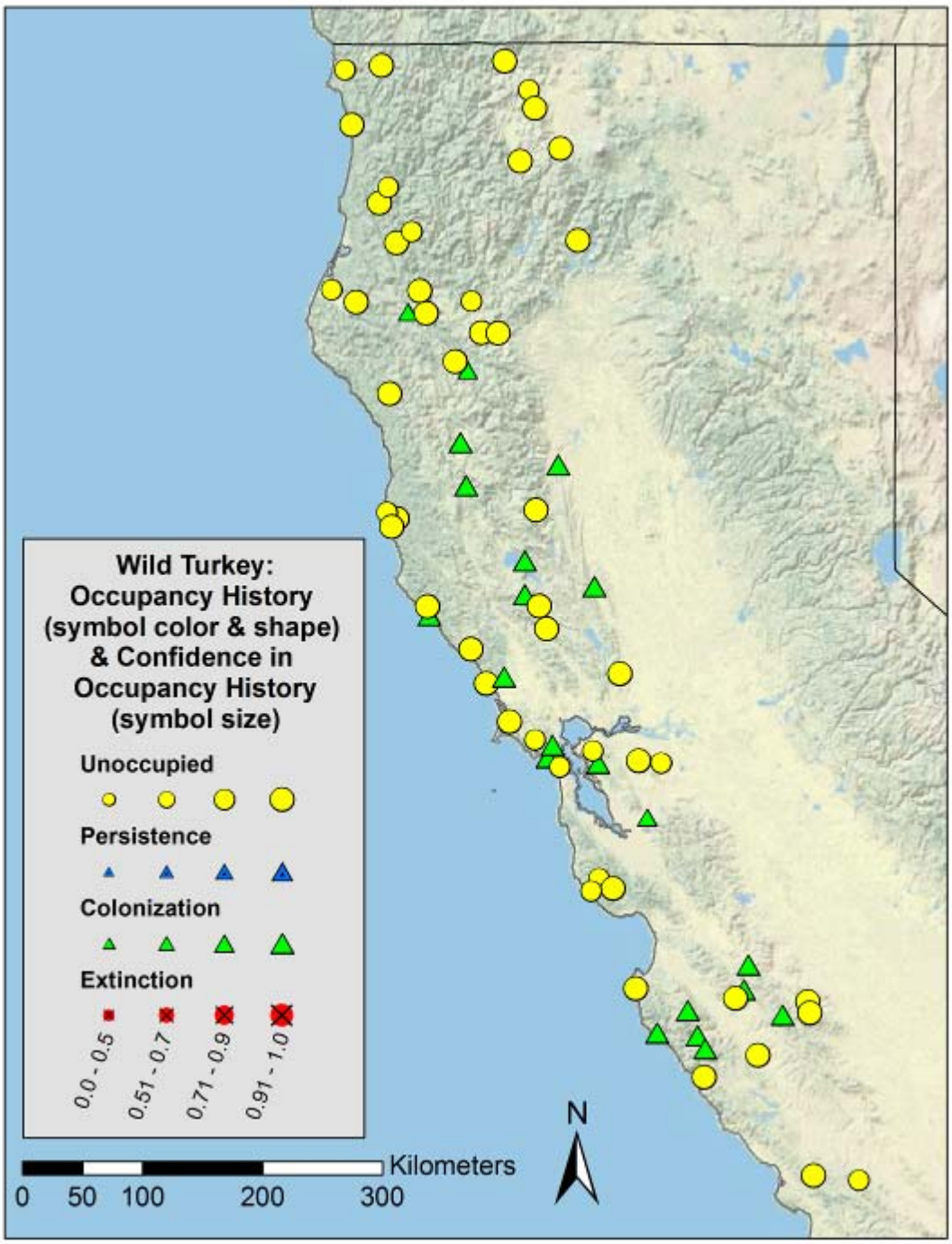
Each map shows the naïve occupancy history across the historic and modern eras, adjusted by the probability of detection—a measure of confidence in the naïve history (Table 5). For each species, each of the 70 survey sites was assigned one of four occupancy categories. Occupancy categories are displayed symbolically: yellow circles indicate unoccupied (not detected in the historic or modern surveys); blue triangles with black dot indicate persistence (detected in both historic and modern surveys); green triangles indicate colonization (detected only in modern surveys); red circles with black X indicate extinction (detected only in historic survey). The confidence in each of these categories, calculated by the method in Table 5, is represented by symbol size. Confidence that a site was unoccupied in both eras was estimated from the product of the probability of detection in the historic era times the probability of detection in the modern era. We assumed that there were no false detections in either era, and therefore assigned 100% confidence to sites that were occupied in both eras (i.e., persistence). Confidence that a site was colonized in the modern era was estimated from the probability of detection in the historic era. Conversely, the confidence that a site went extinct in the modern era was estimated from the probability of detection in the modern era.

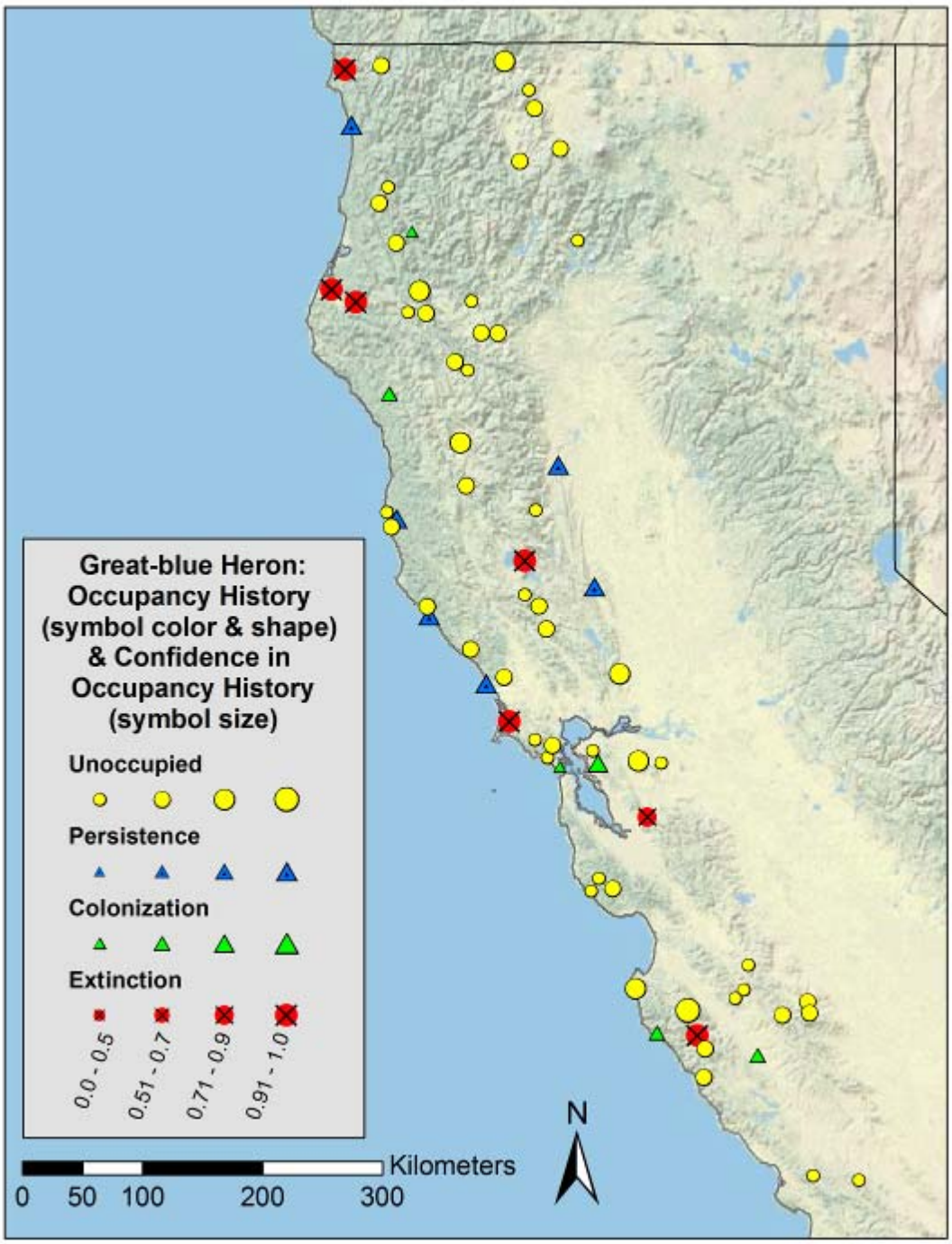

Canada Goose:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

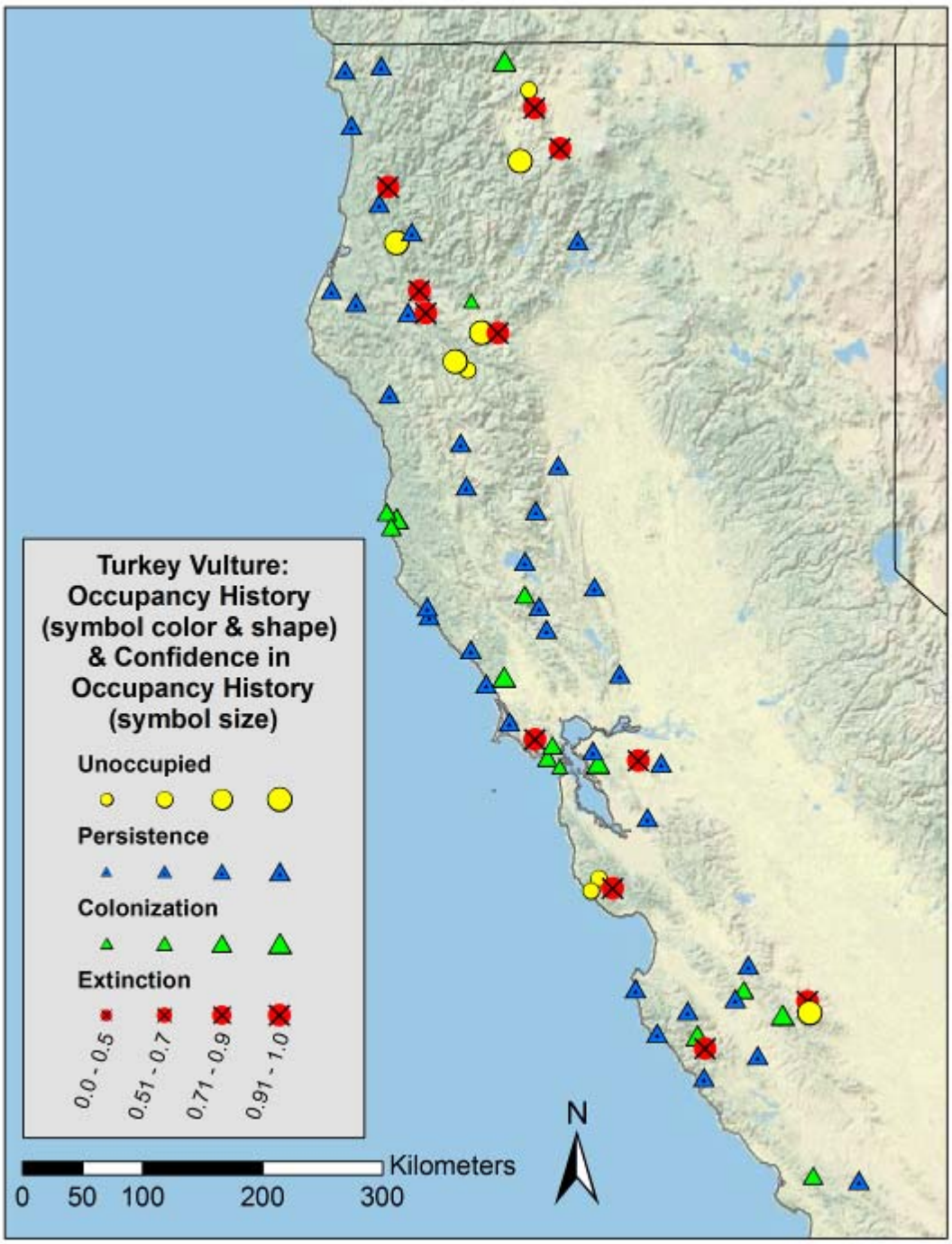

Mallard:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

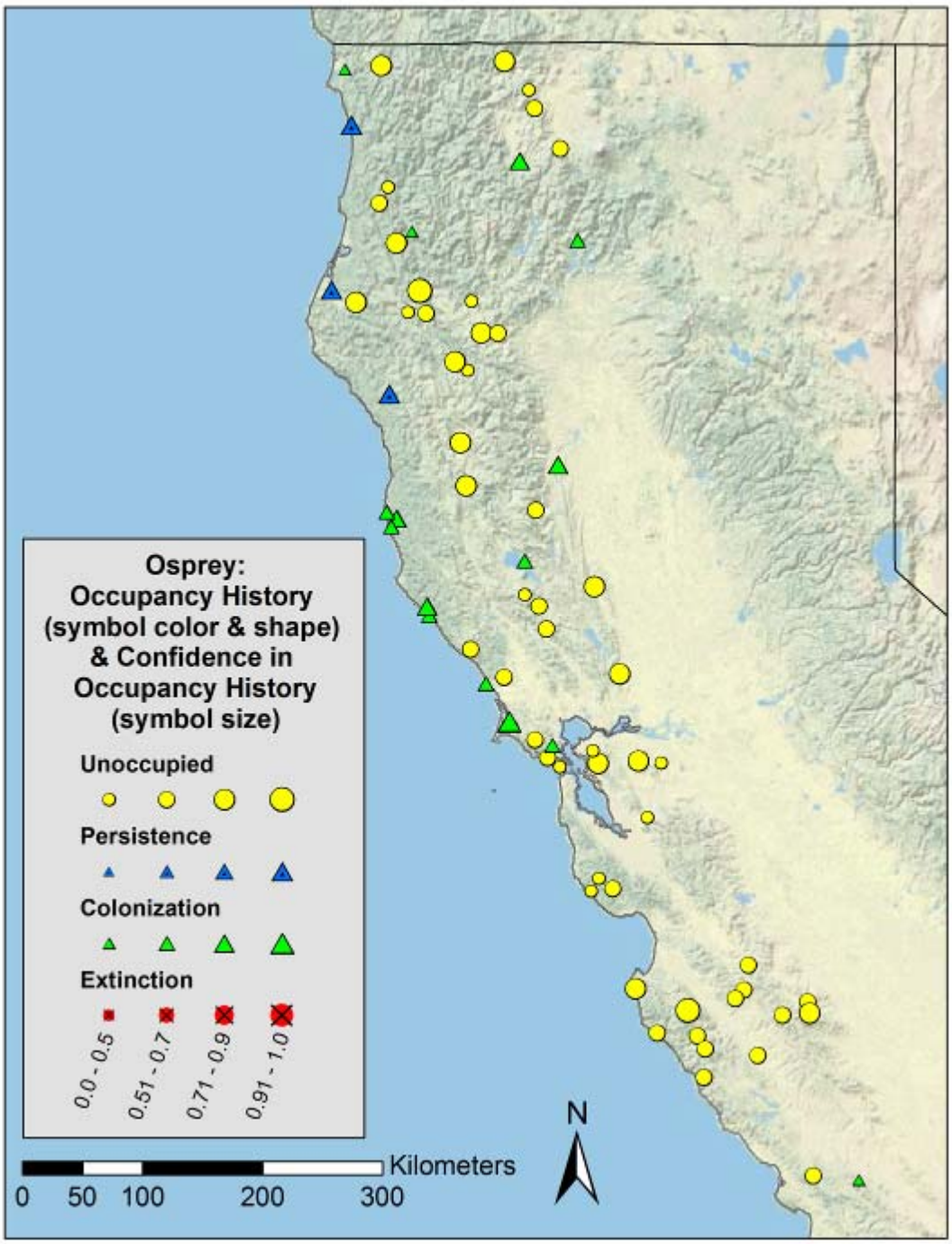

Mountain Quail:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

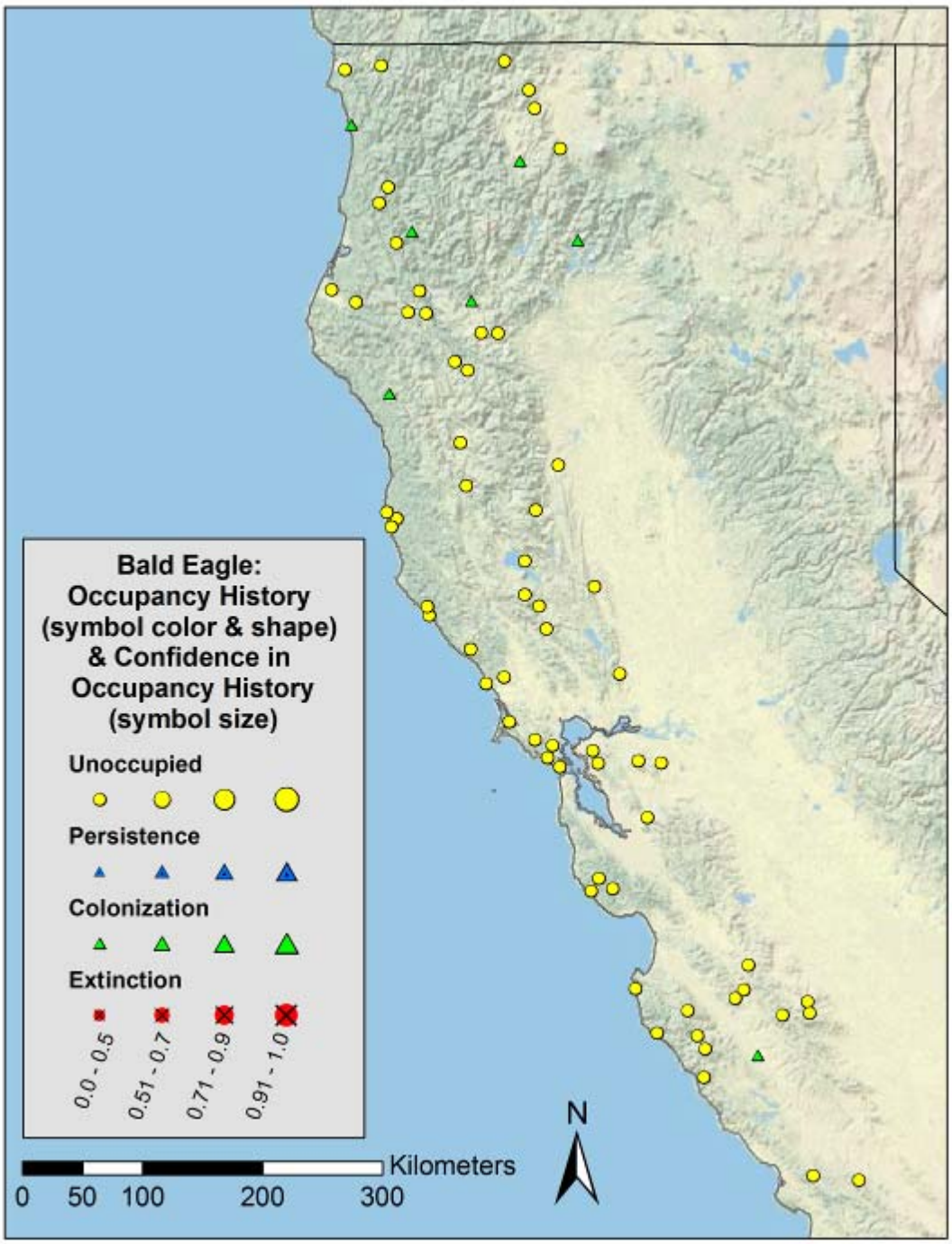

California Quail:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Wild Turkey:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Great-blue Heron:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Turkey Vulture:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Osprey:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Bald Eagle:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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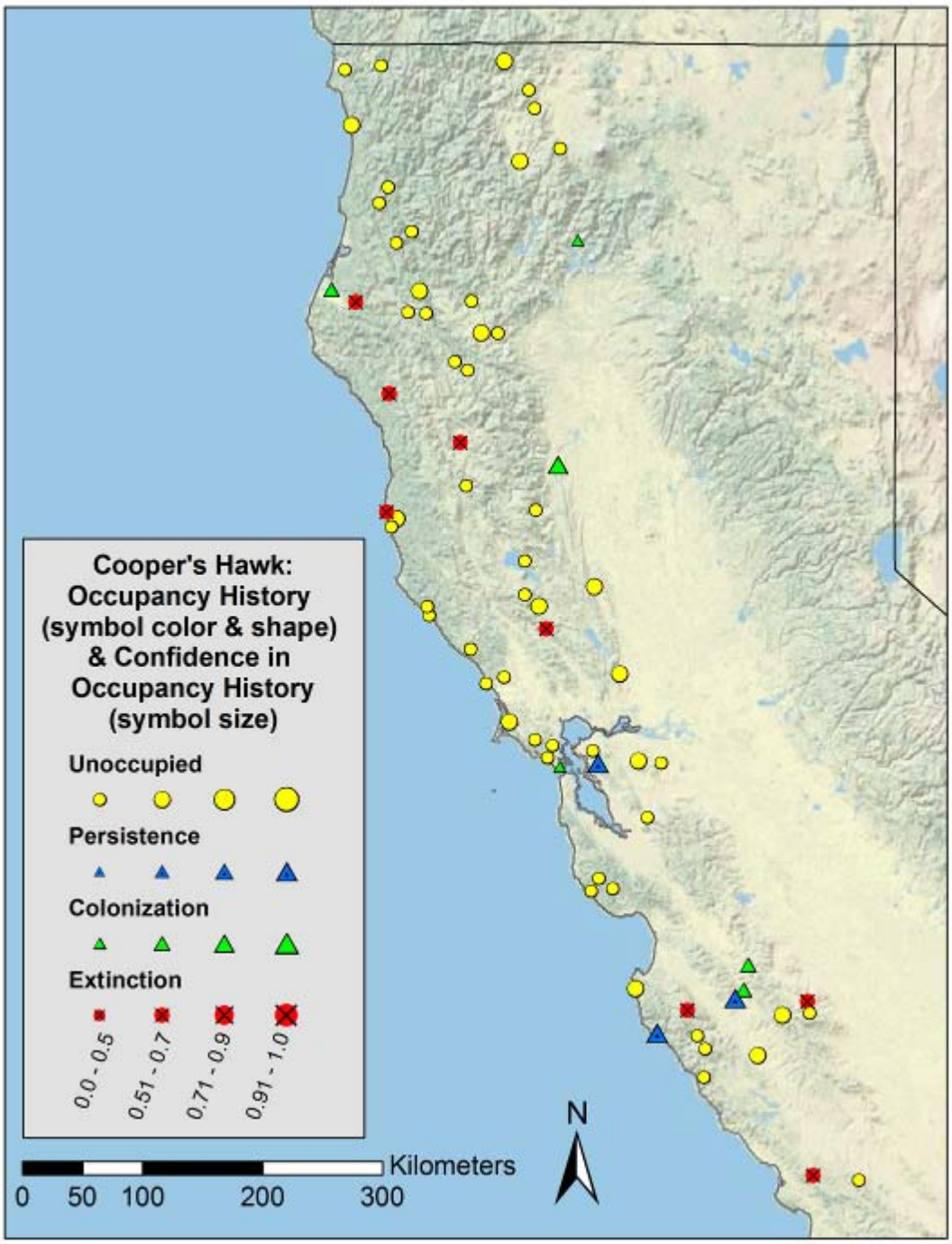
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Cooper's Hawk:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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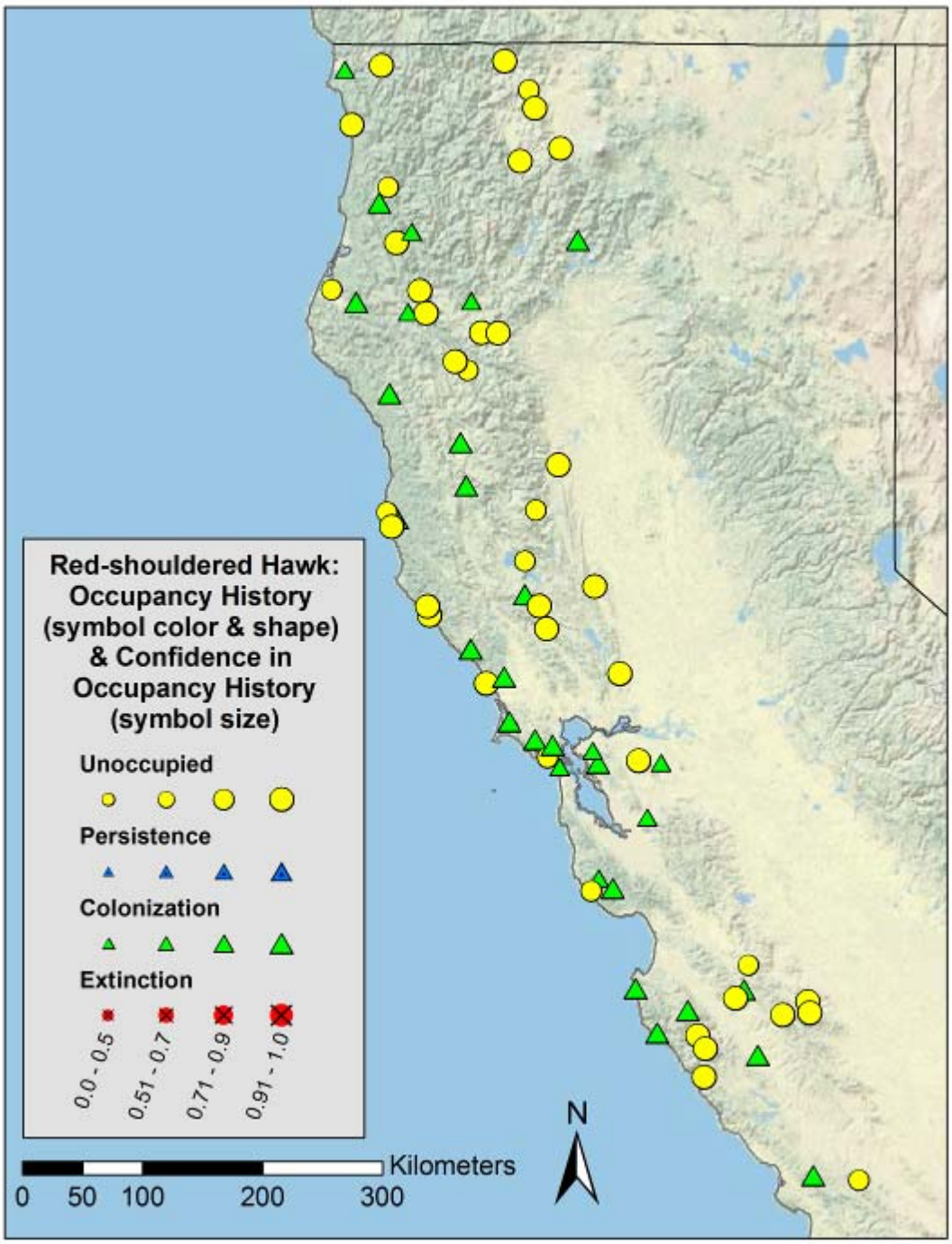
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Red-shouldered Hawk:
Occupancy History
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& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
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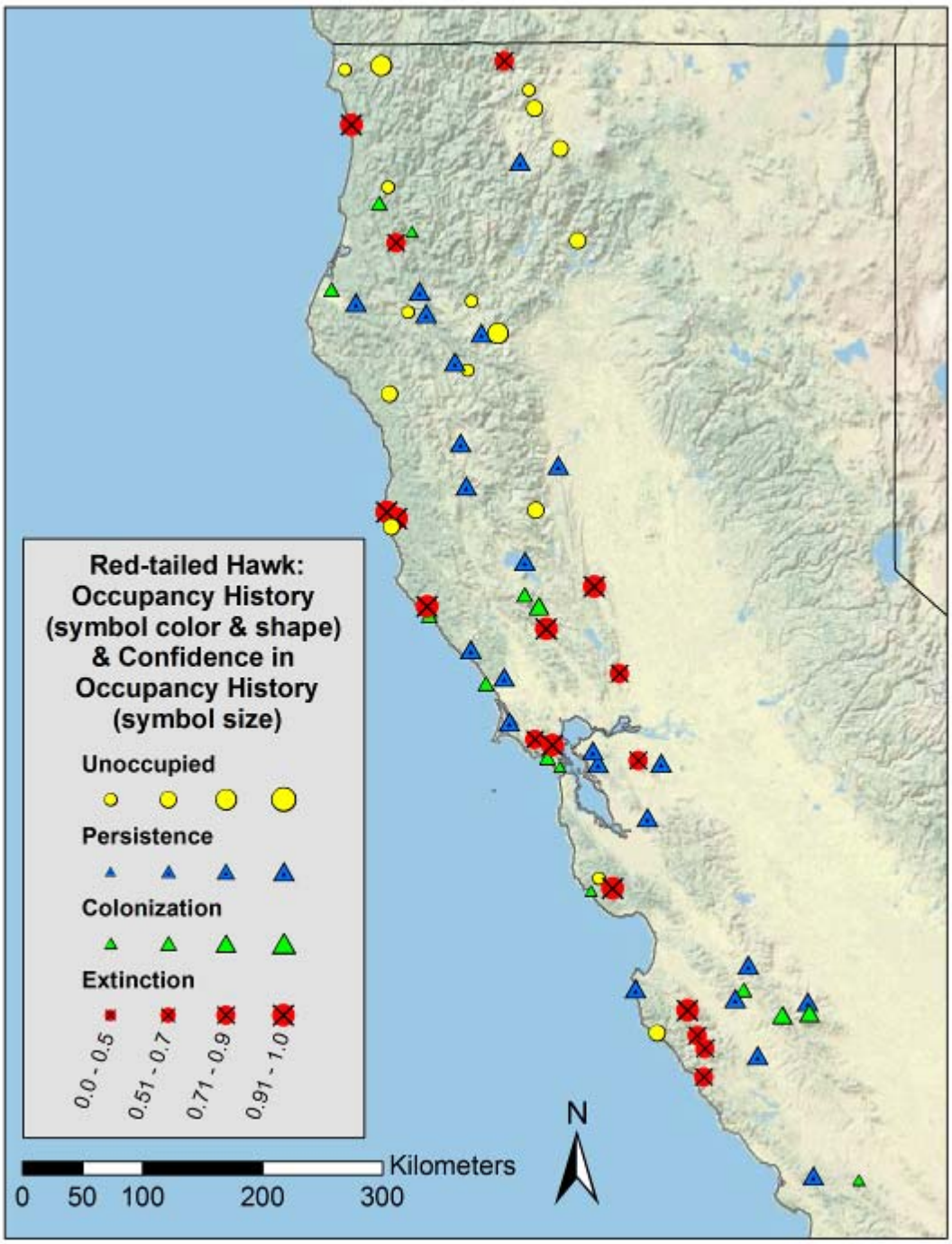
N


Red-tailed Hawk:
Occupancy History
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& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
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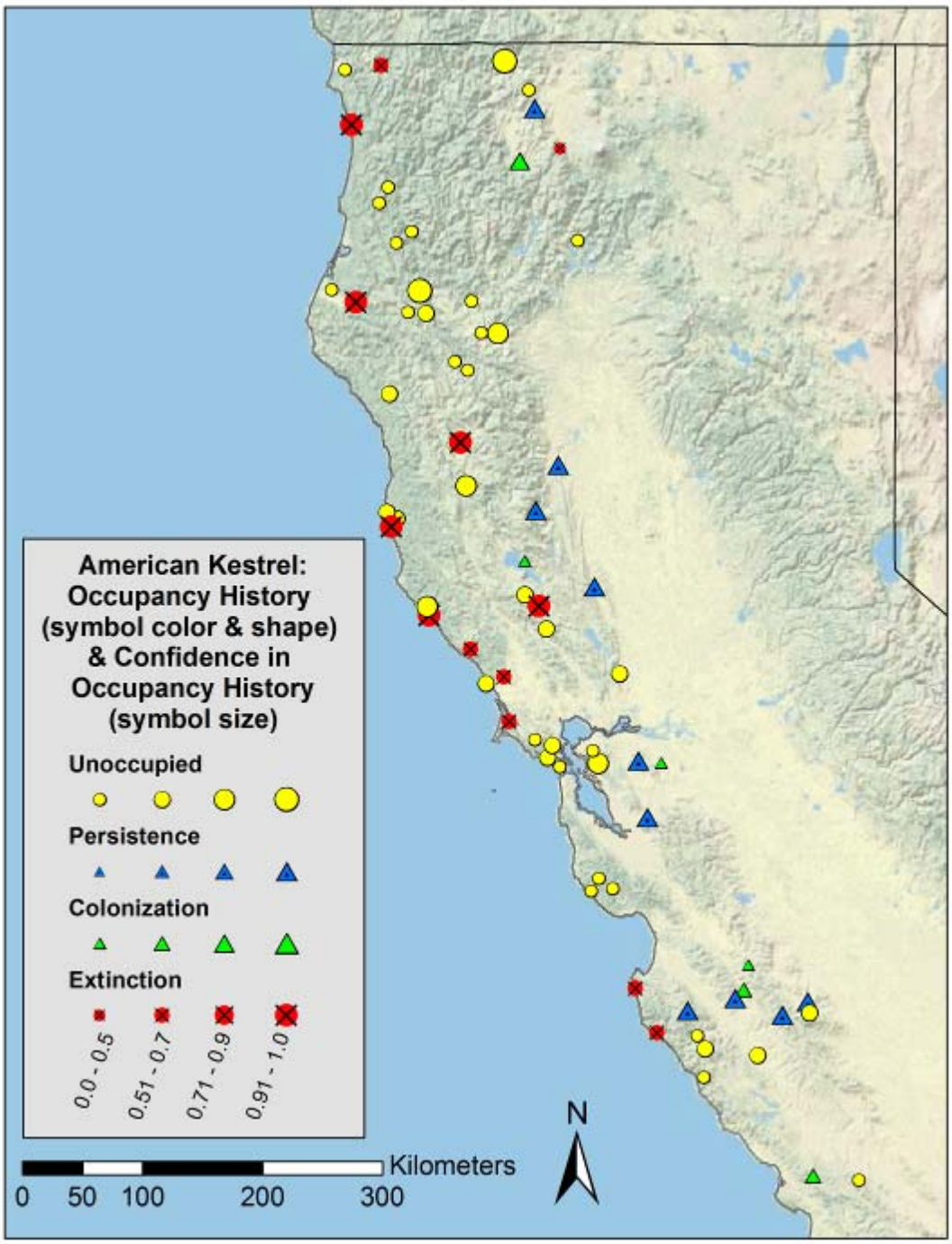
American Kestrel:
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(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
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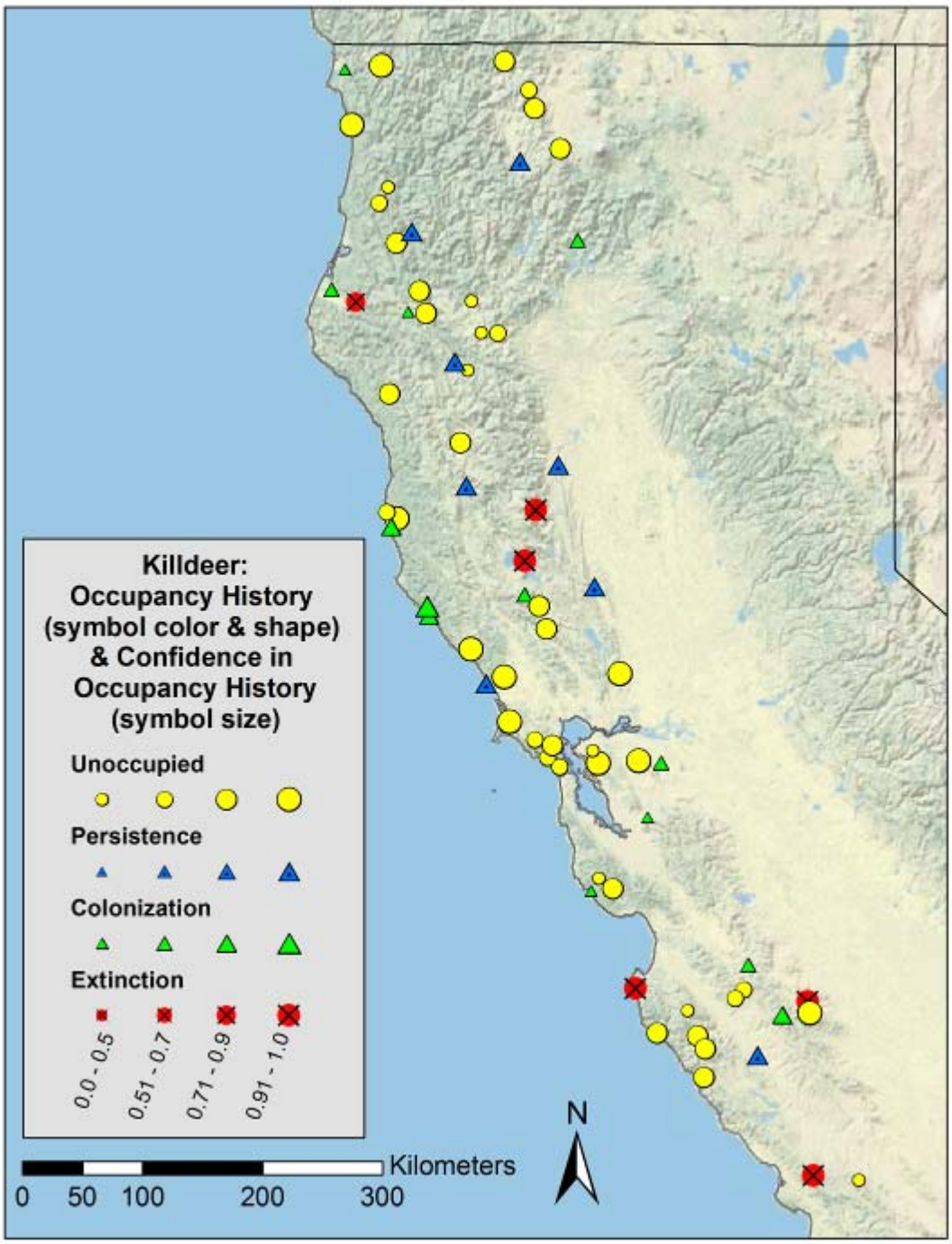
N


Killdeer:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.71 - 0.9
0.91 - 1.0
Kilometers
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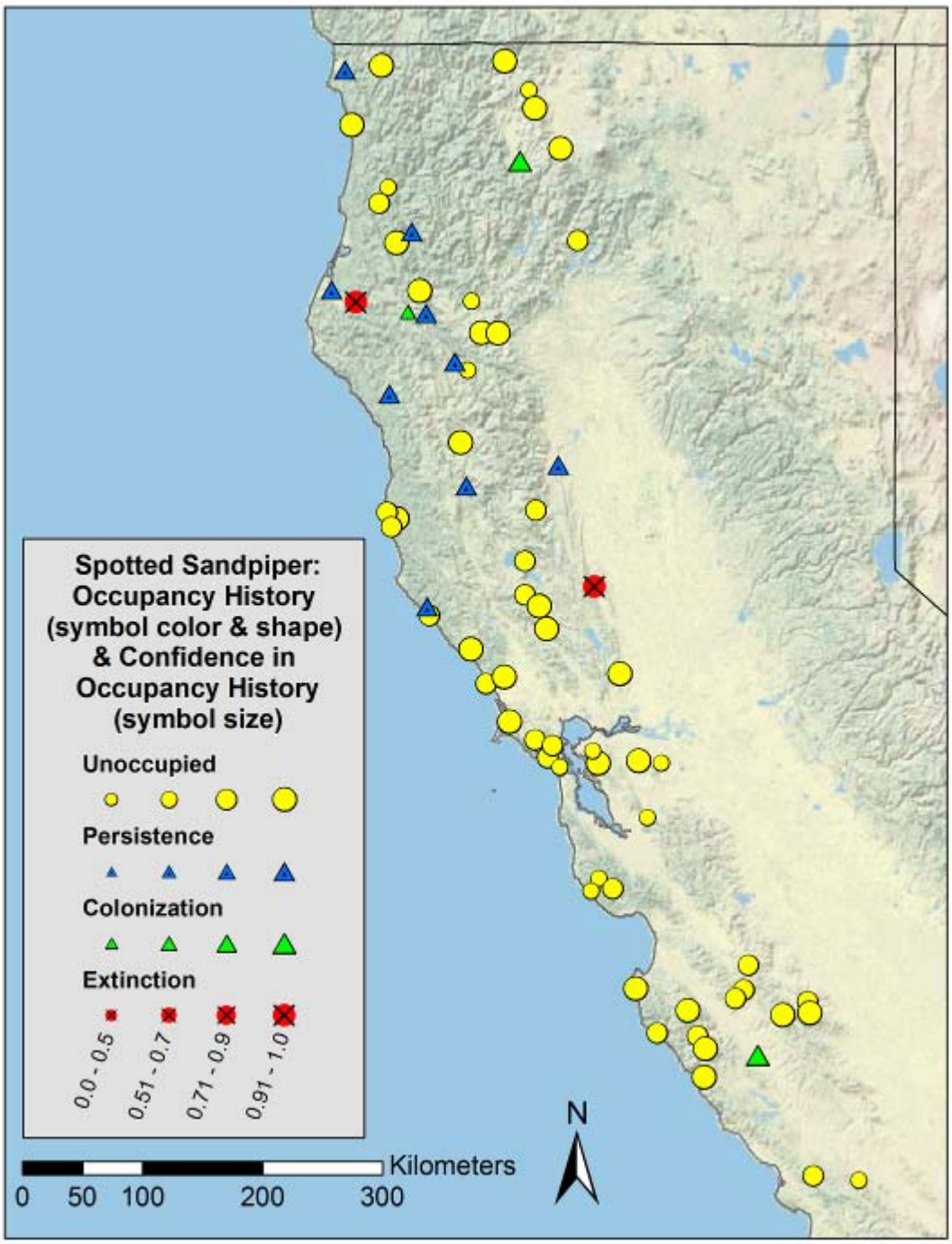
N


Spotted Sandpiper:
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(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.71 - 0.9
0.91 - 1.0
Kilometers
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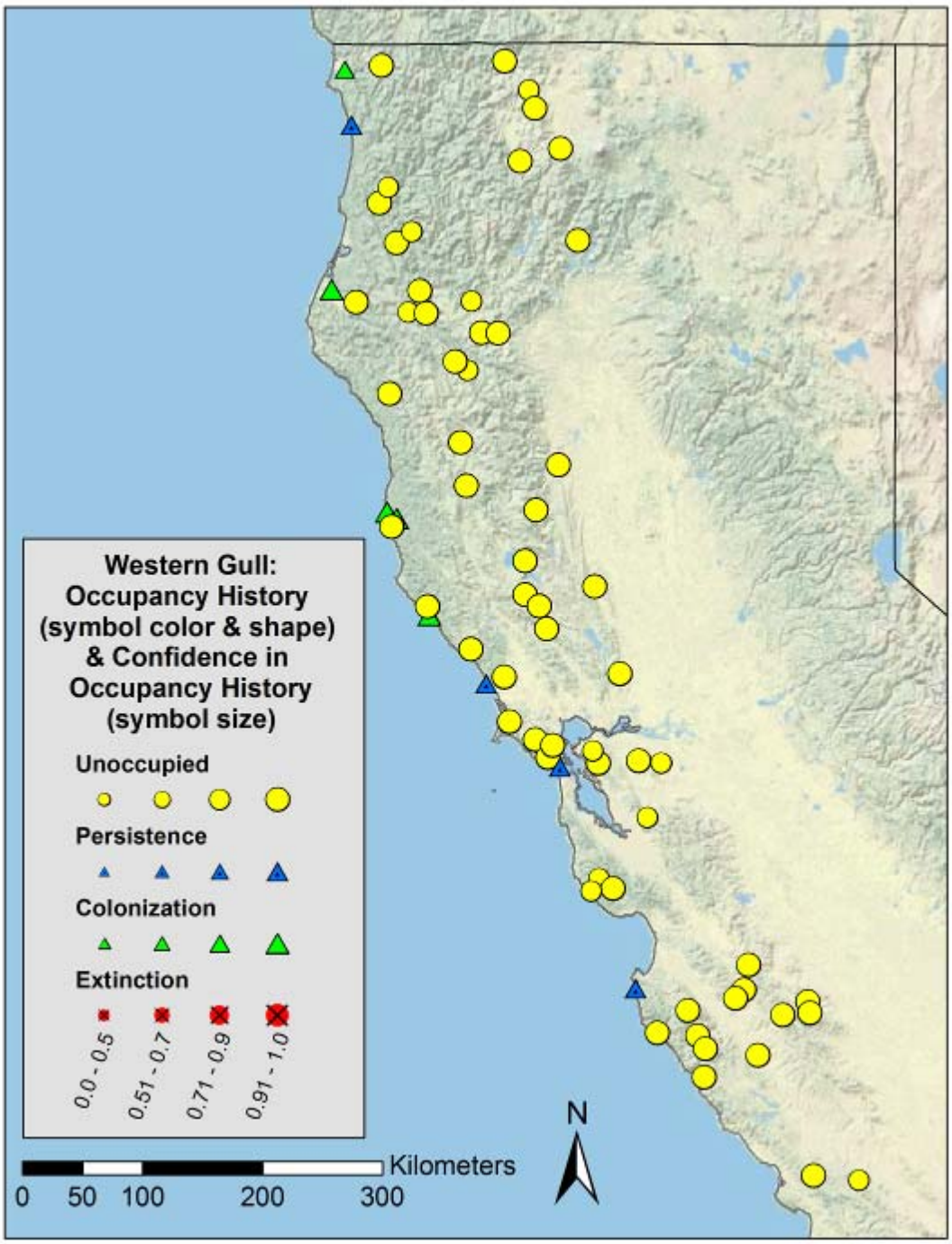
N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& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.71 - 0.9
0.91 - 1.0
Kilometers
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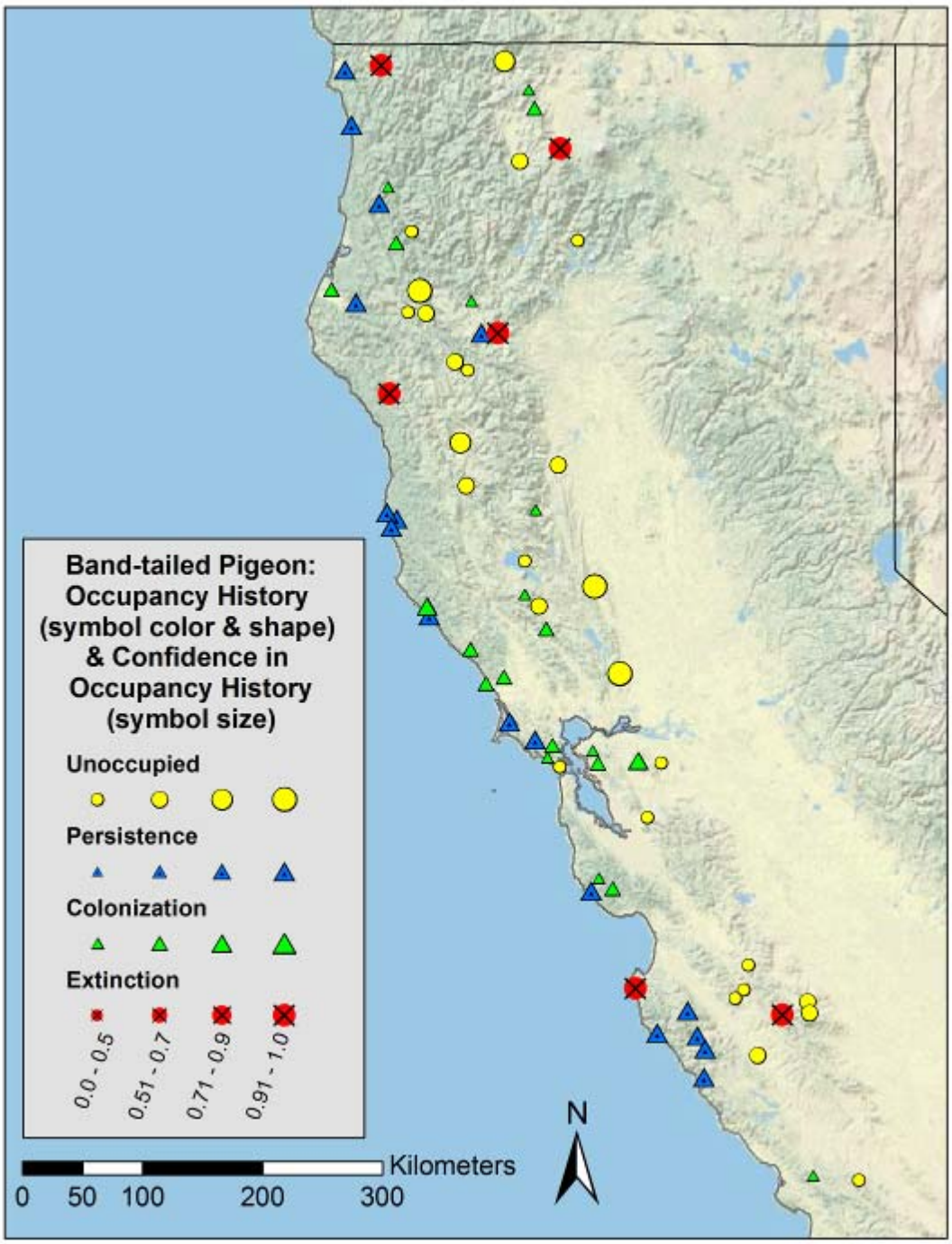
N


Band-tailed Pigeon:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
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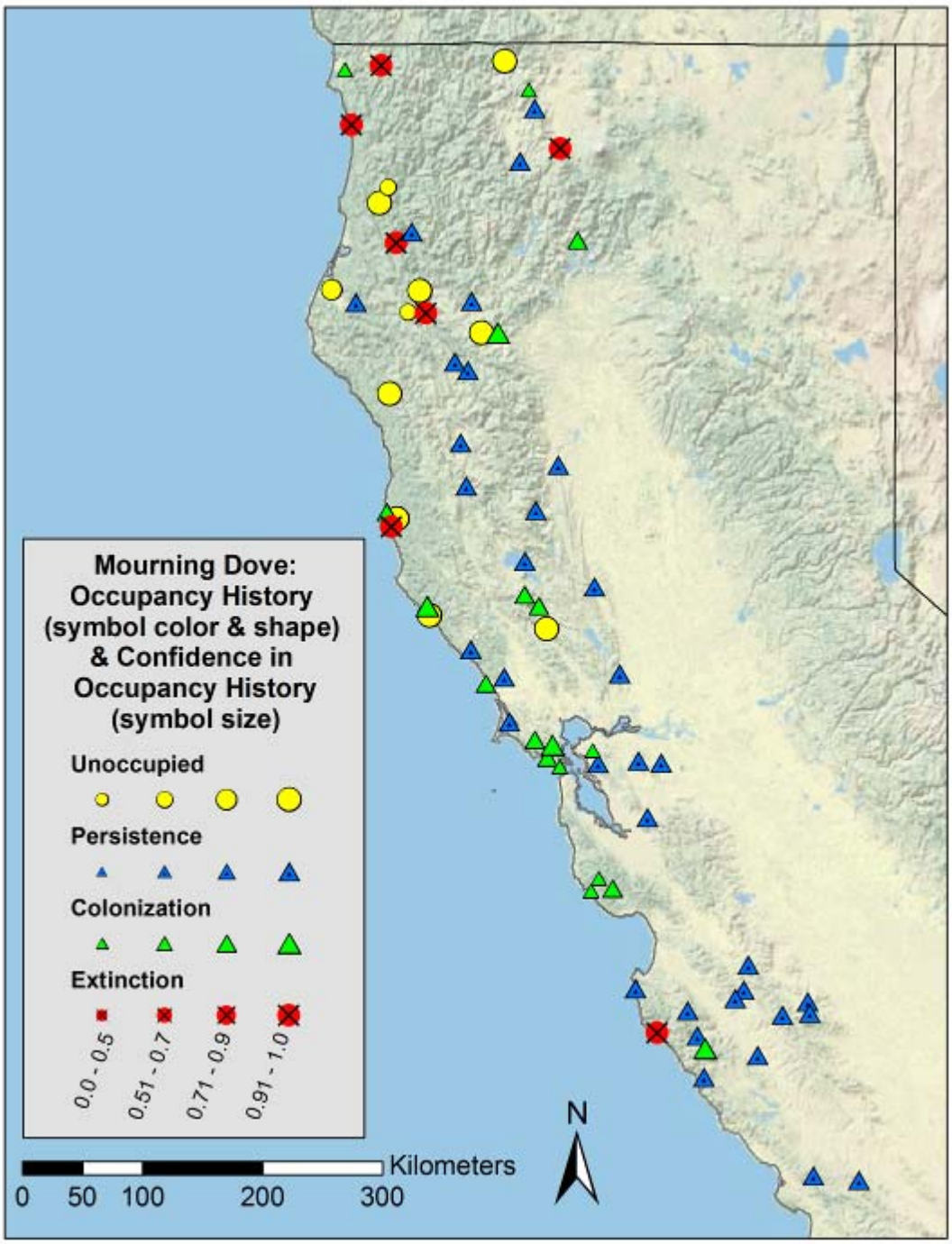
N


Mourning Dove:
Occupancy History
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& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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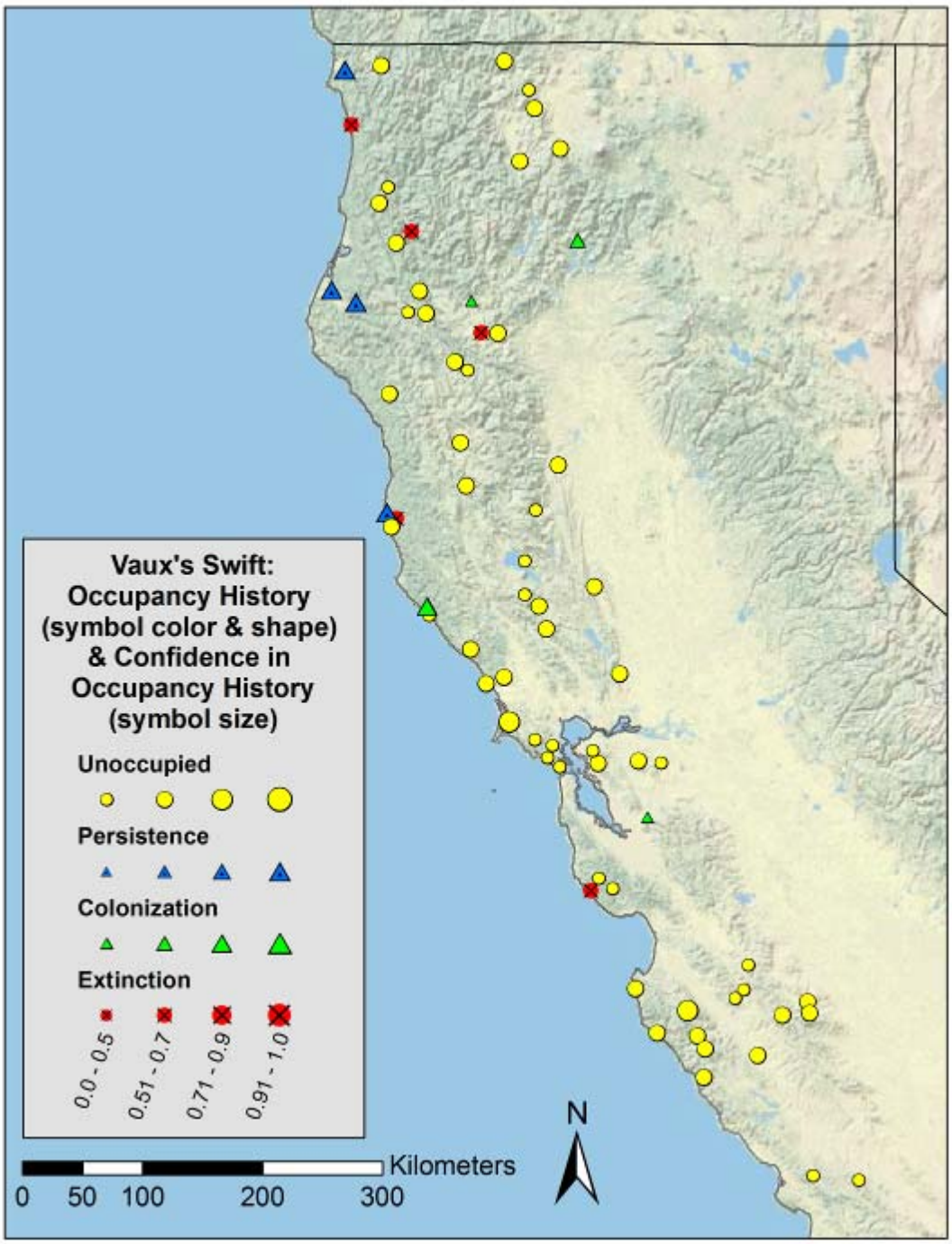
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Vaux's Swift:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
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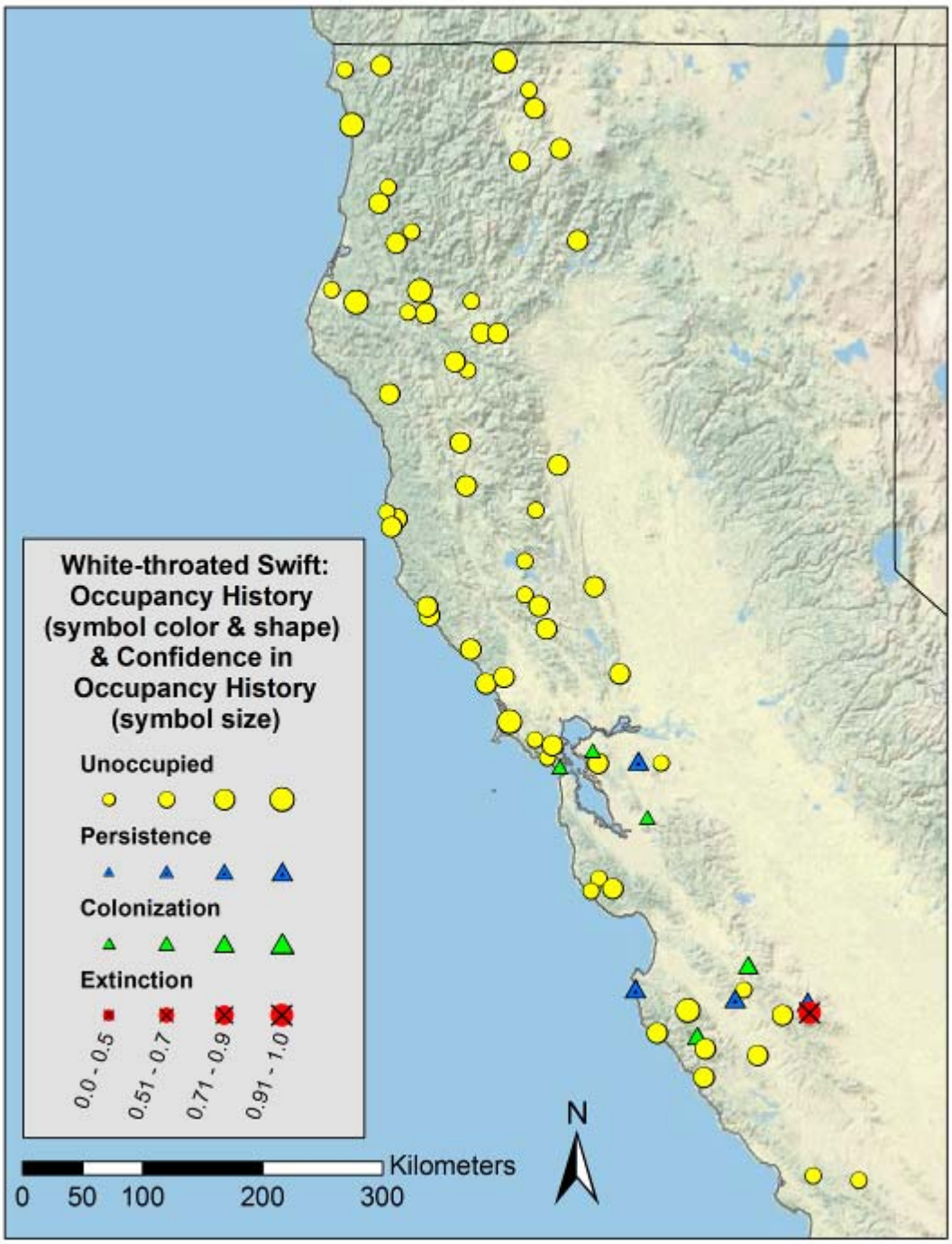
N


White-throated Swift:
Occupancy History
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& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
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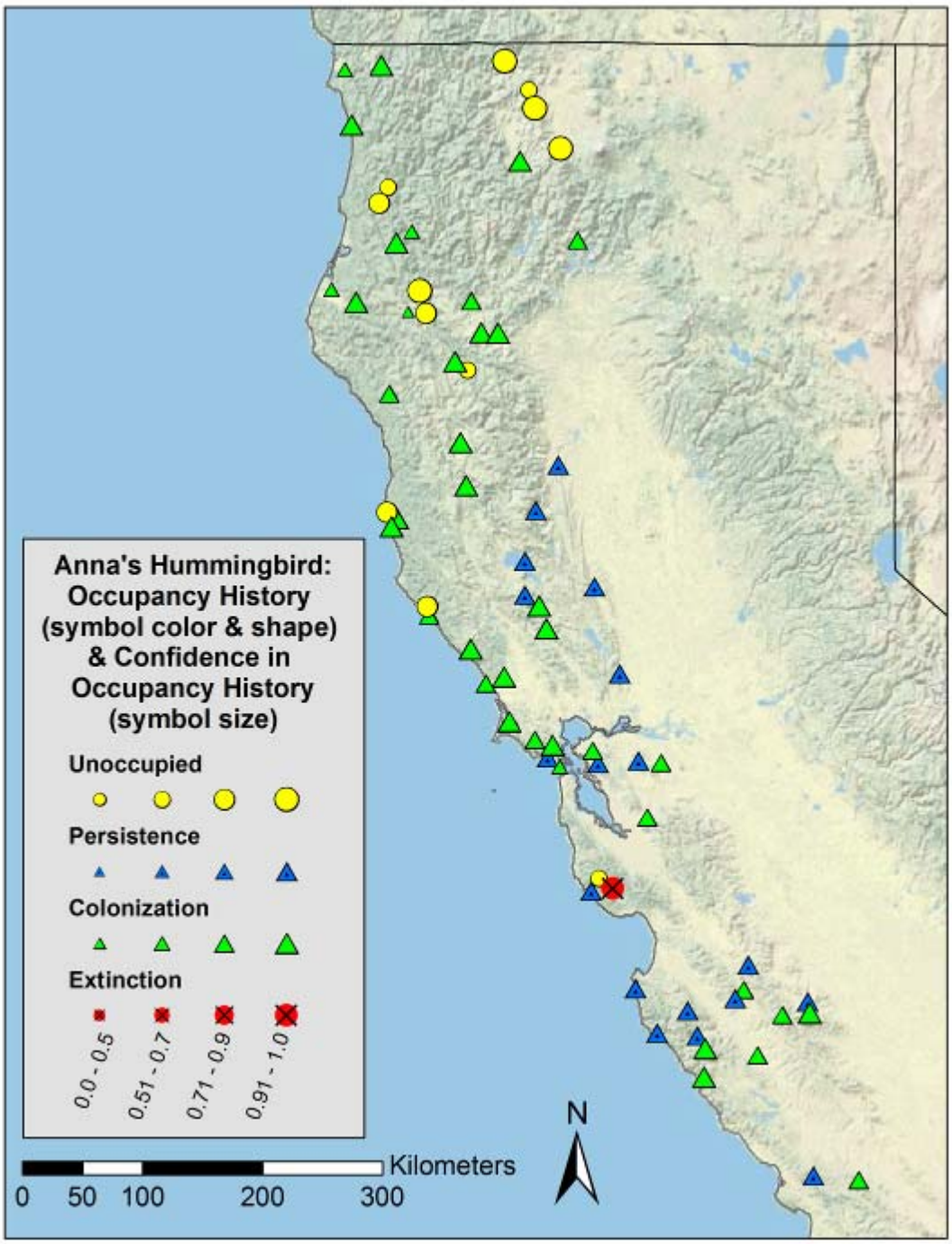
N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Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
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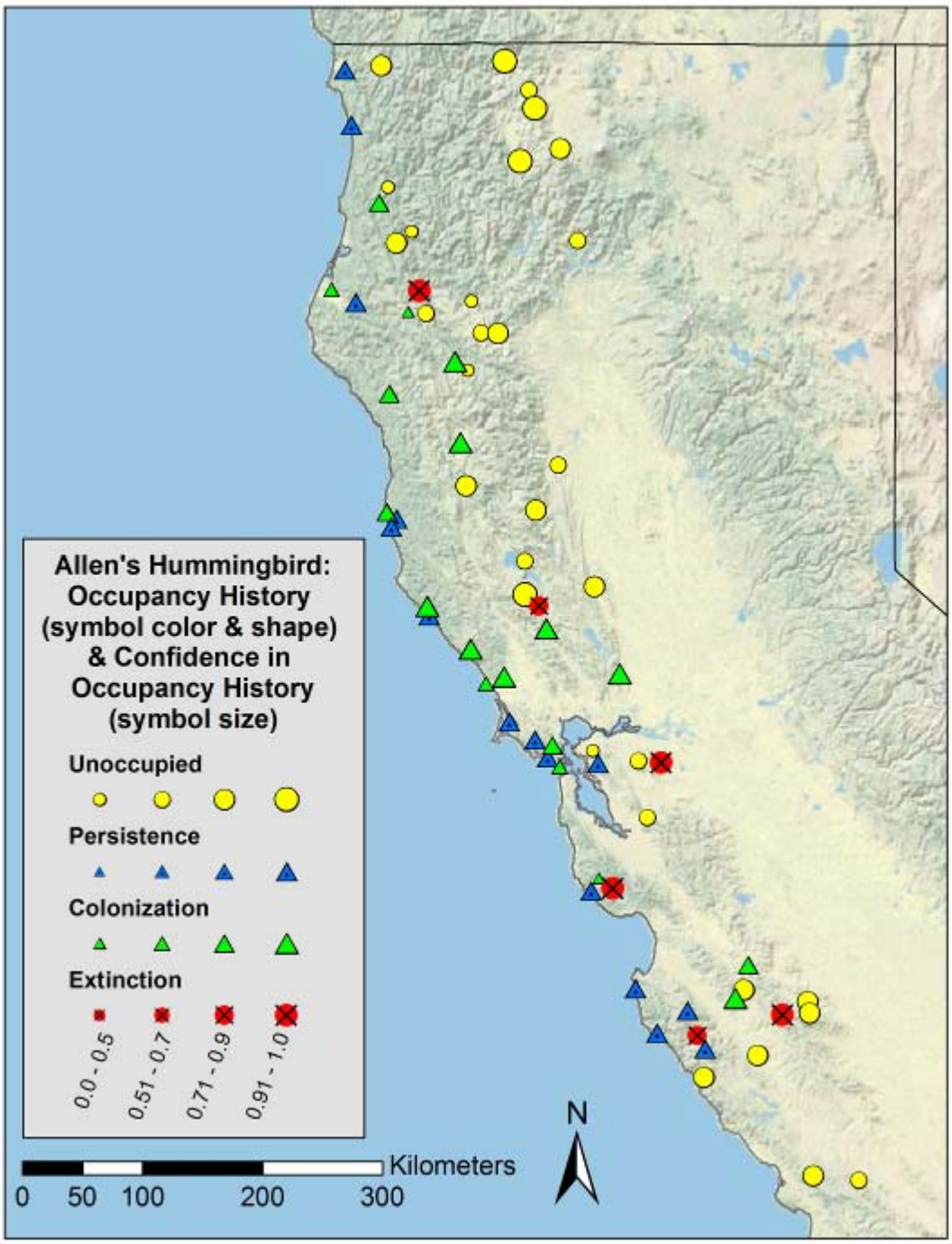
Allen's Hummingbird:
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& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
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0.71 - 0.9
0.91 - 1.0
Kilometers
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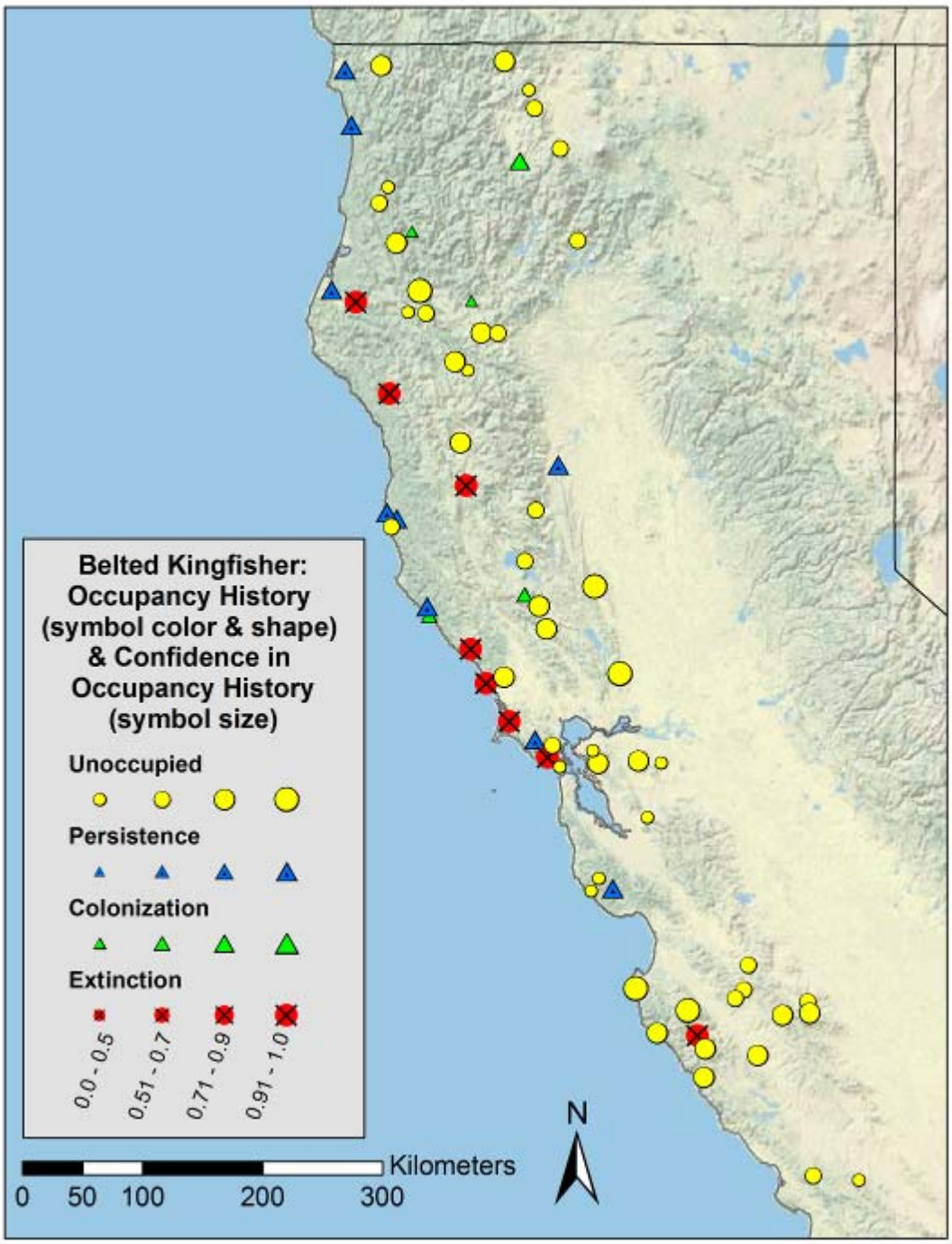
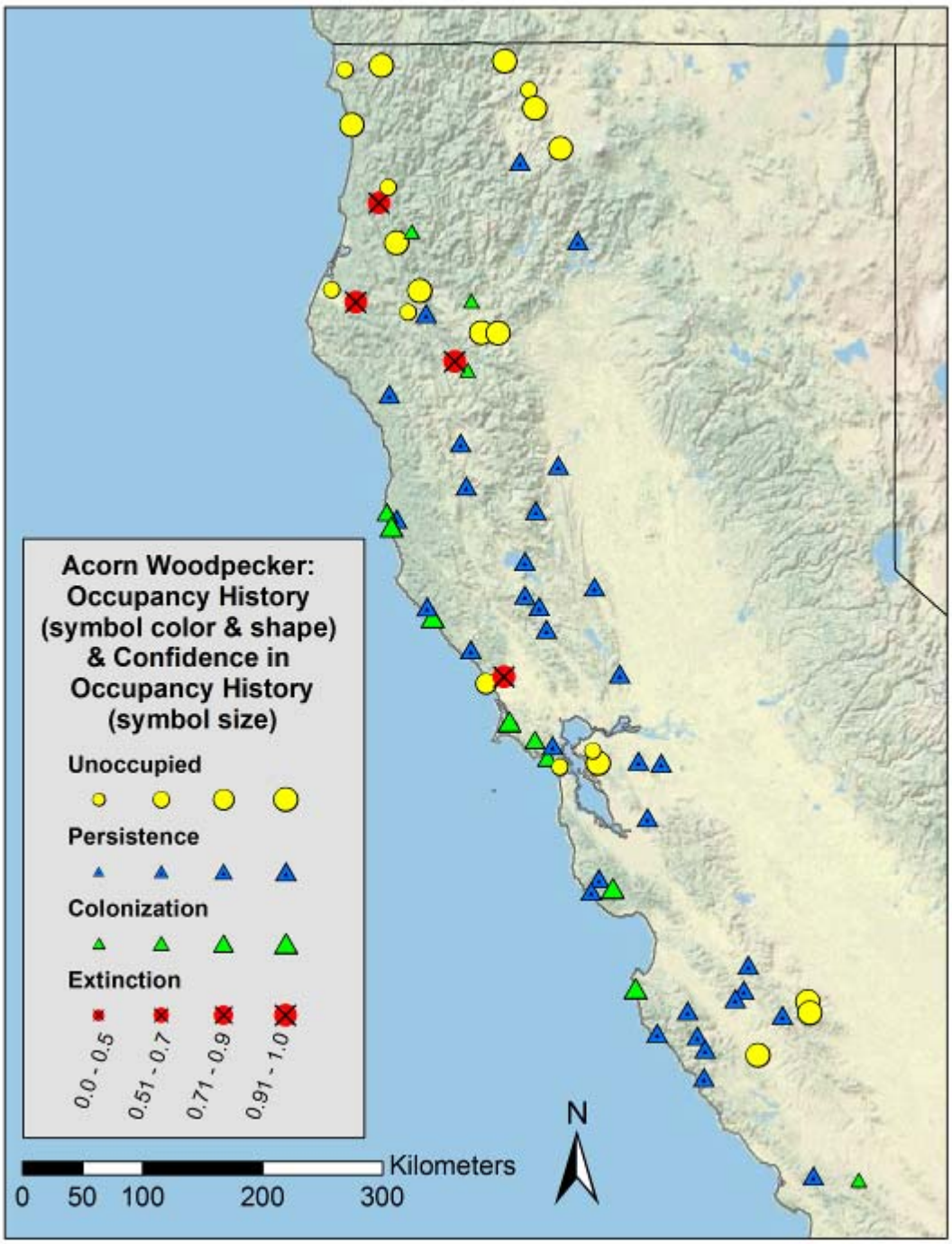
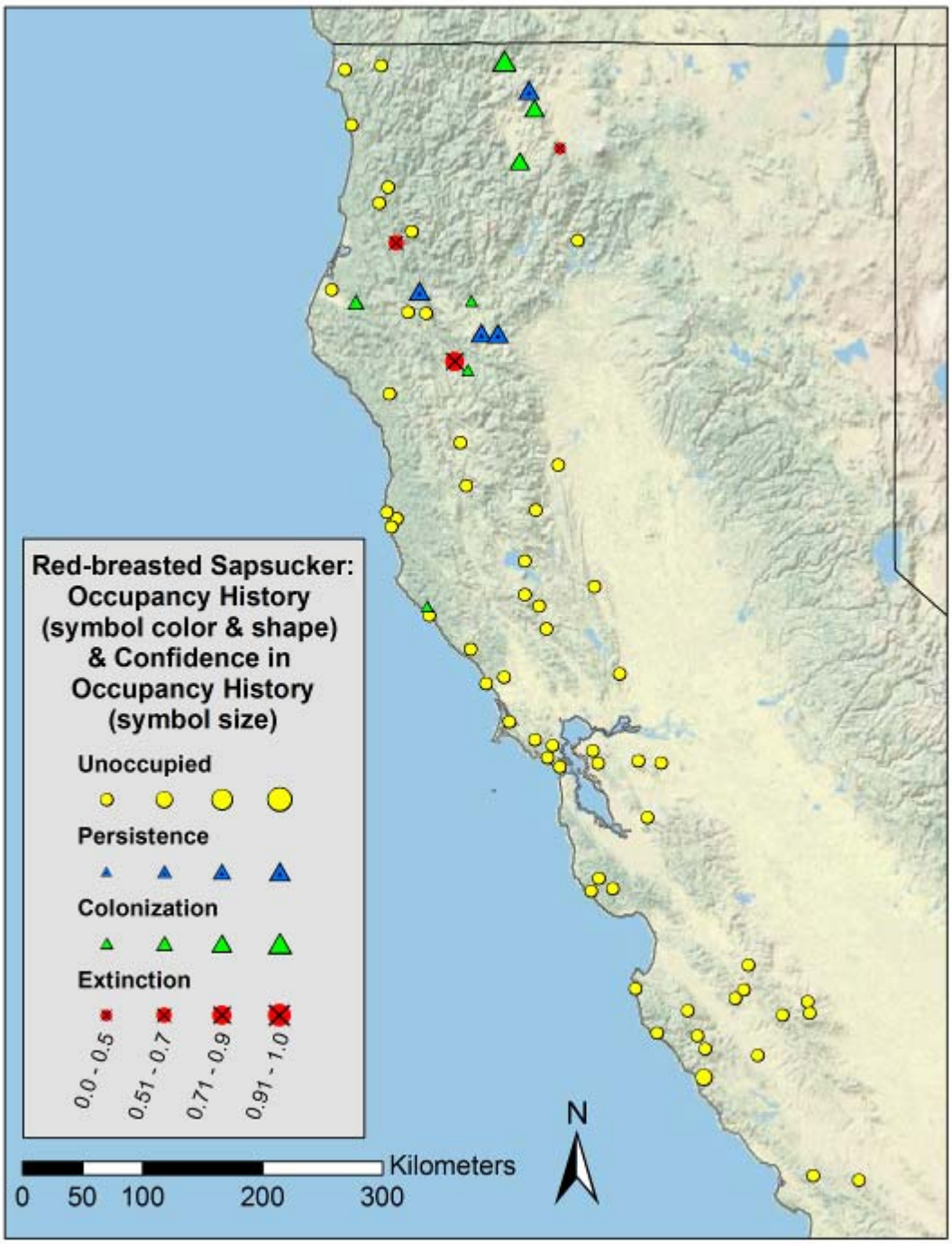
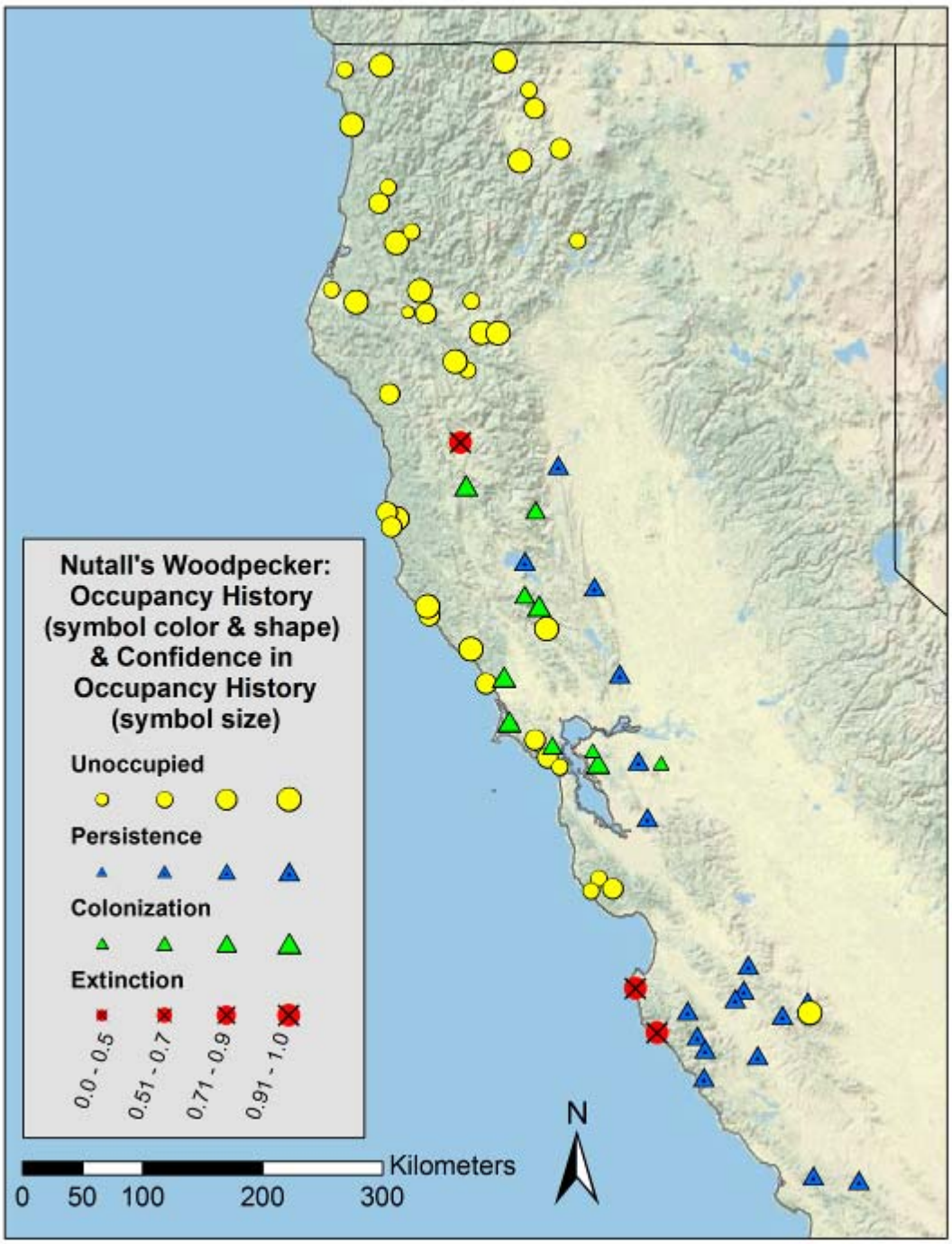
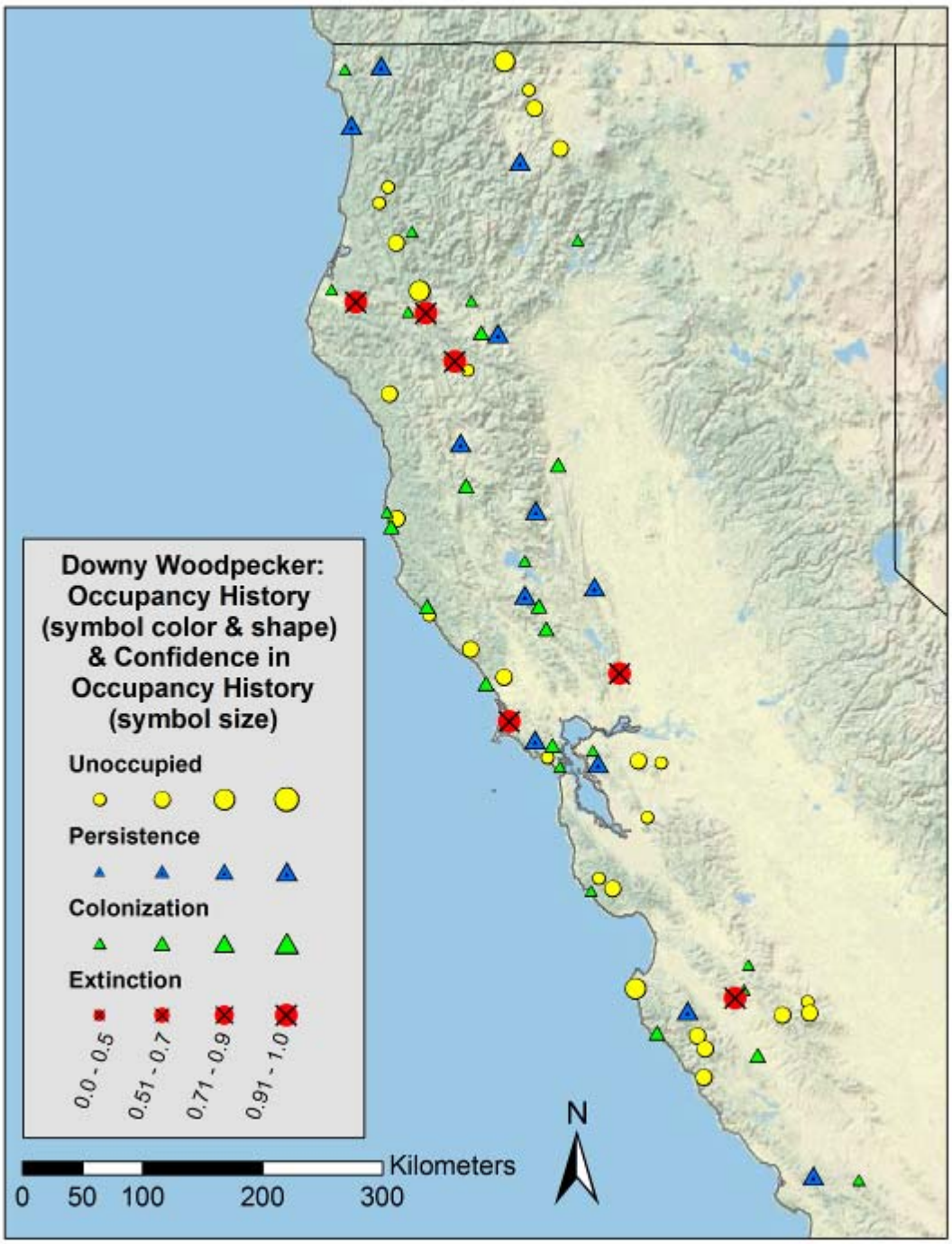
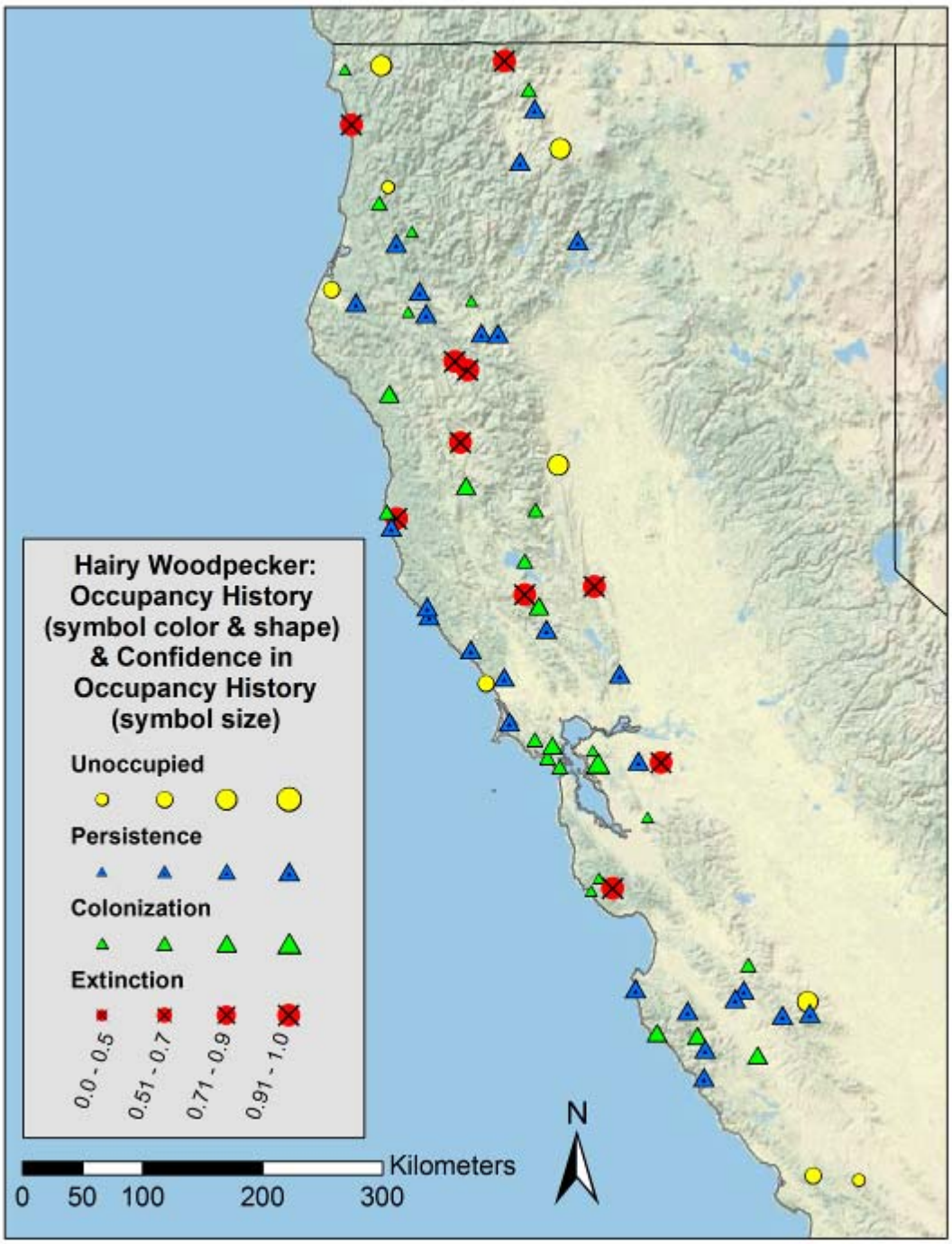

Belted Kingfisher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

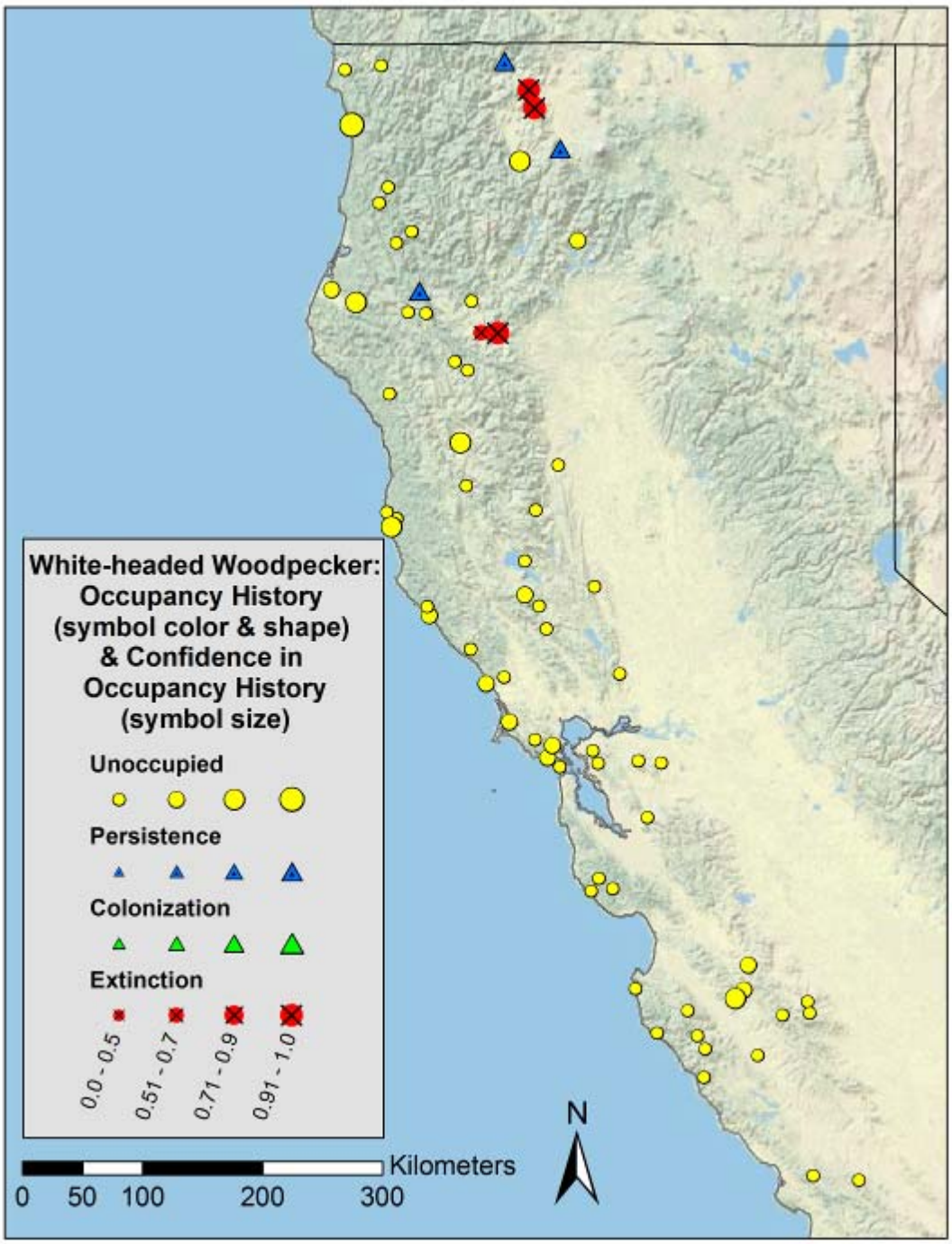

Acorn Woodpecker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

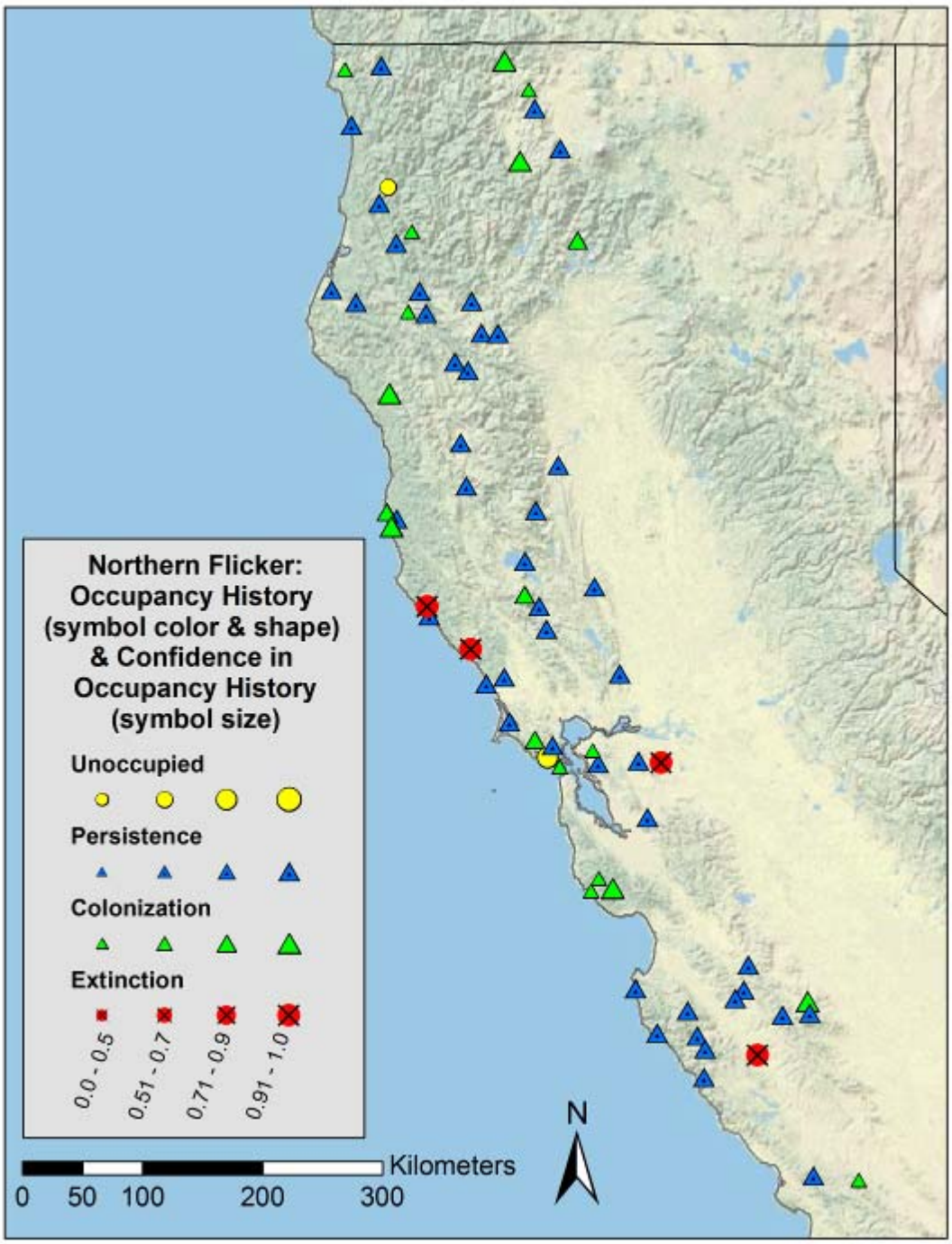

Red-breasted Sapsucker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

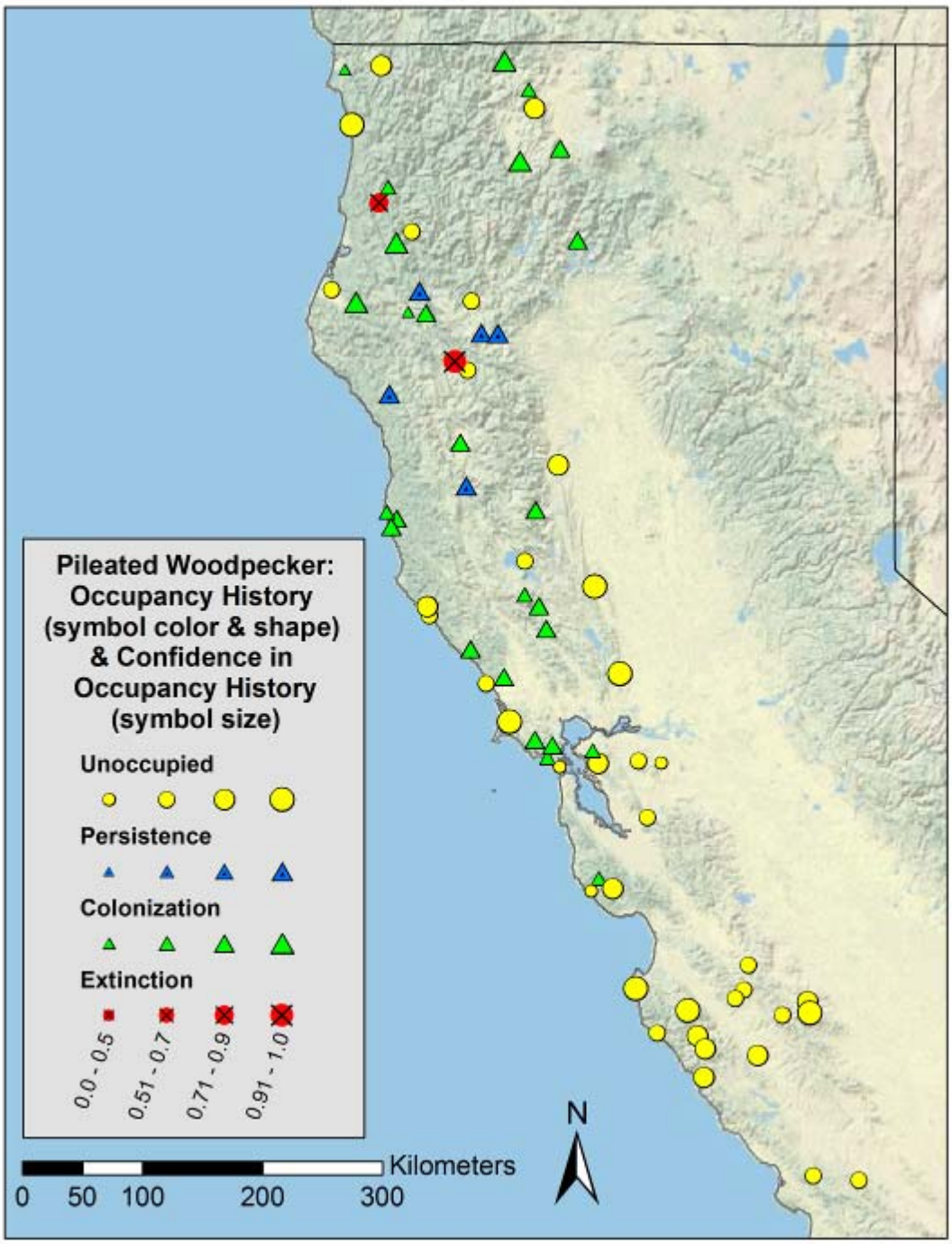

Nutall's Woodpecker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

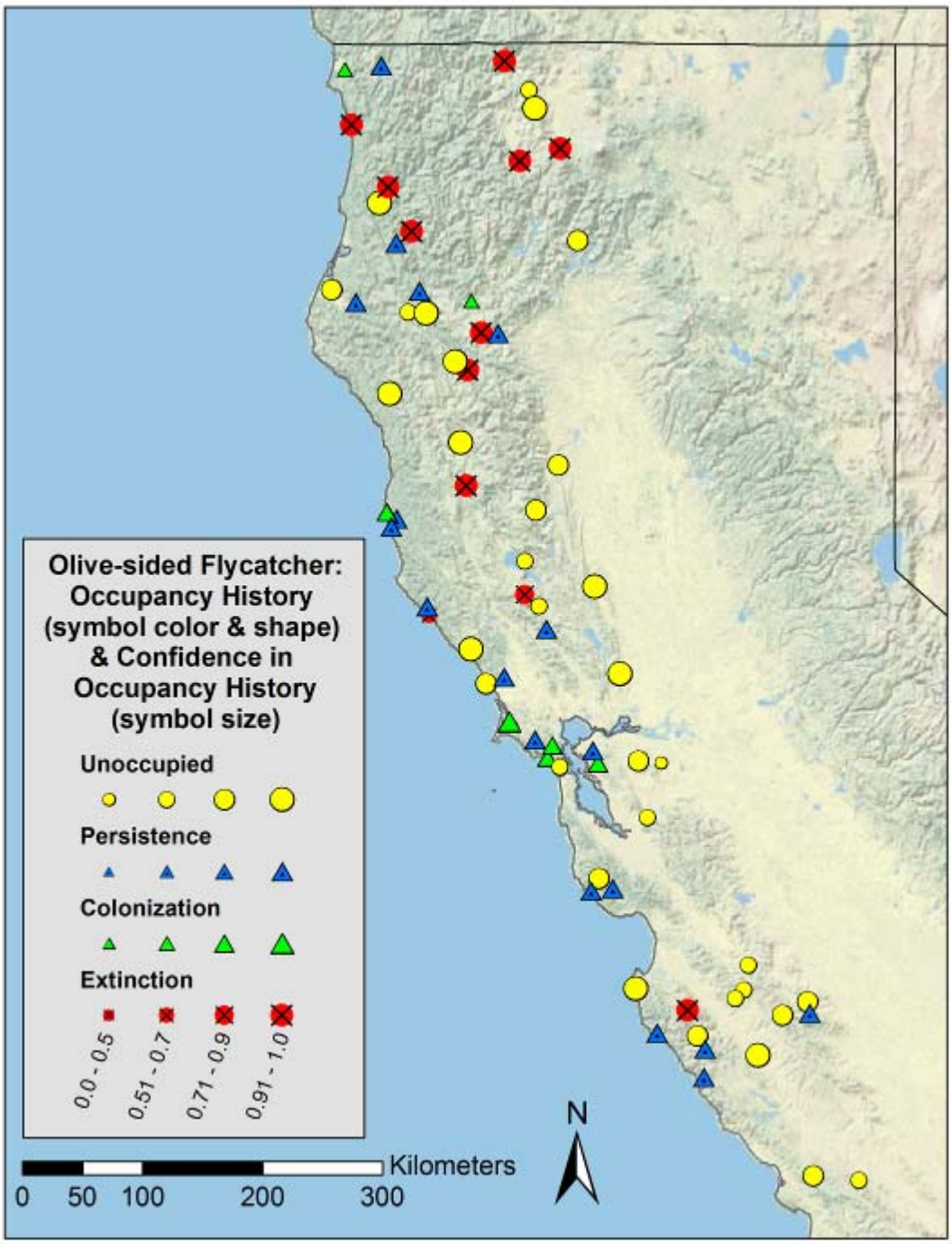

Downy Woodpecker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

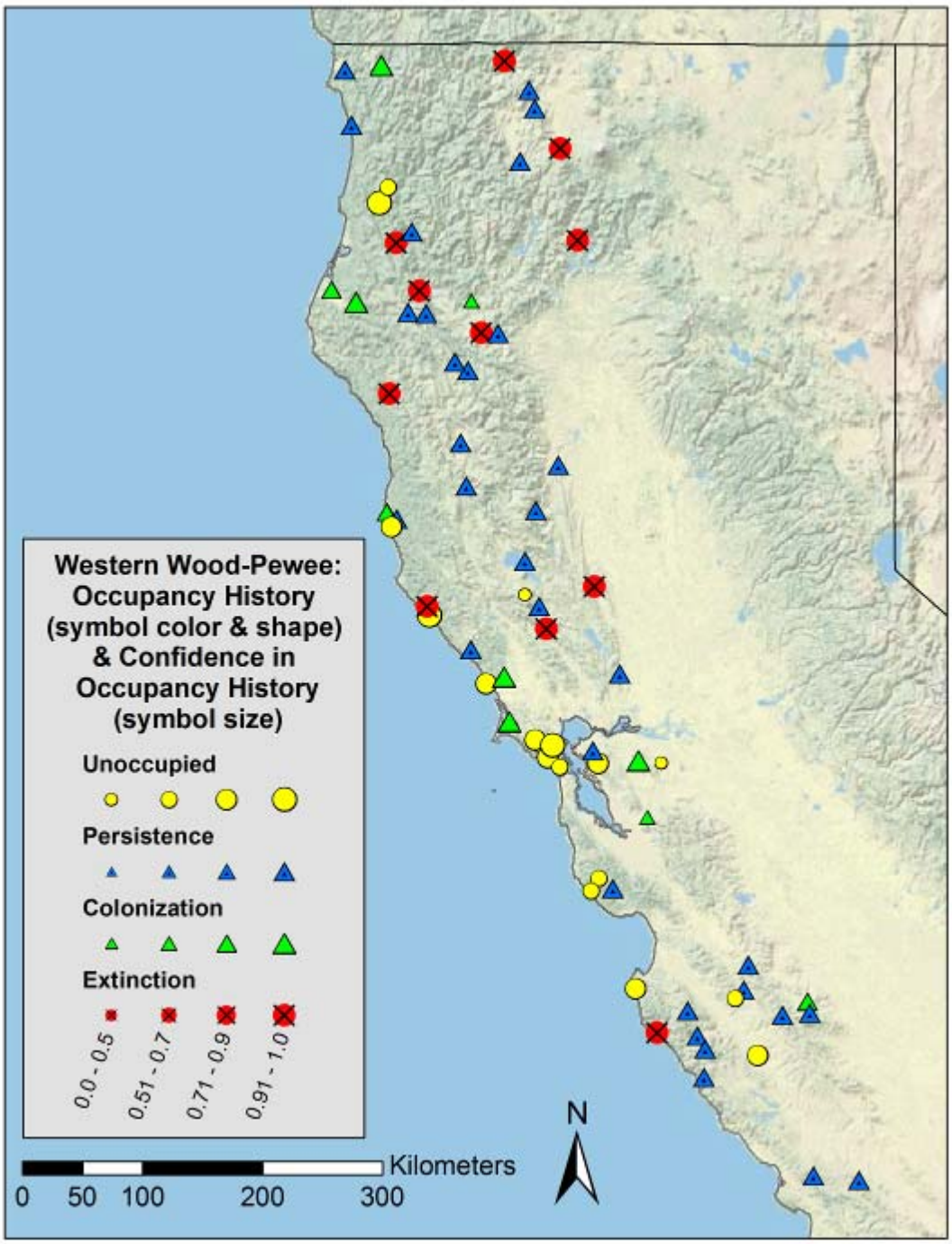

Hairy Woodpecker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

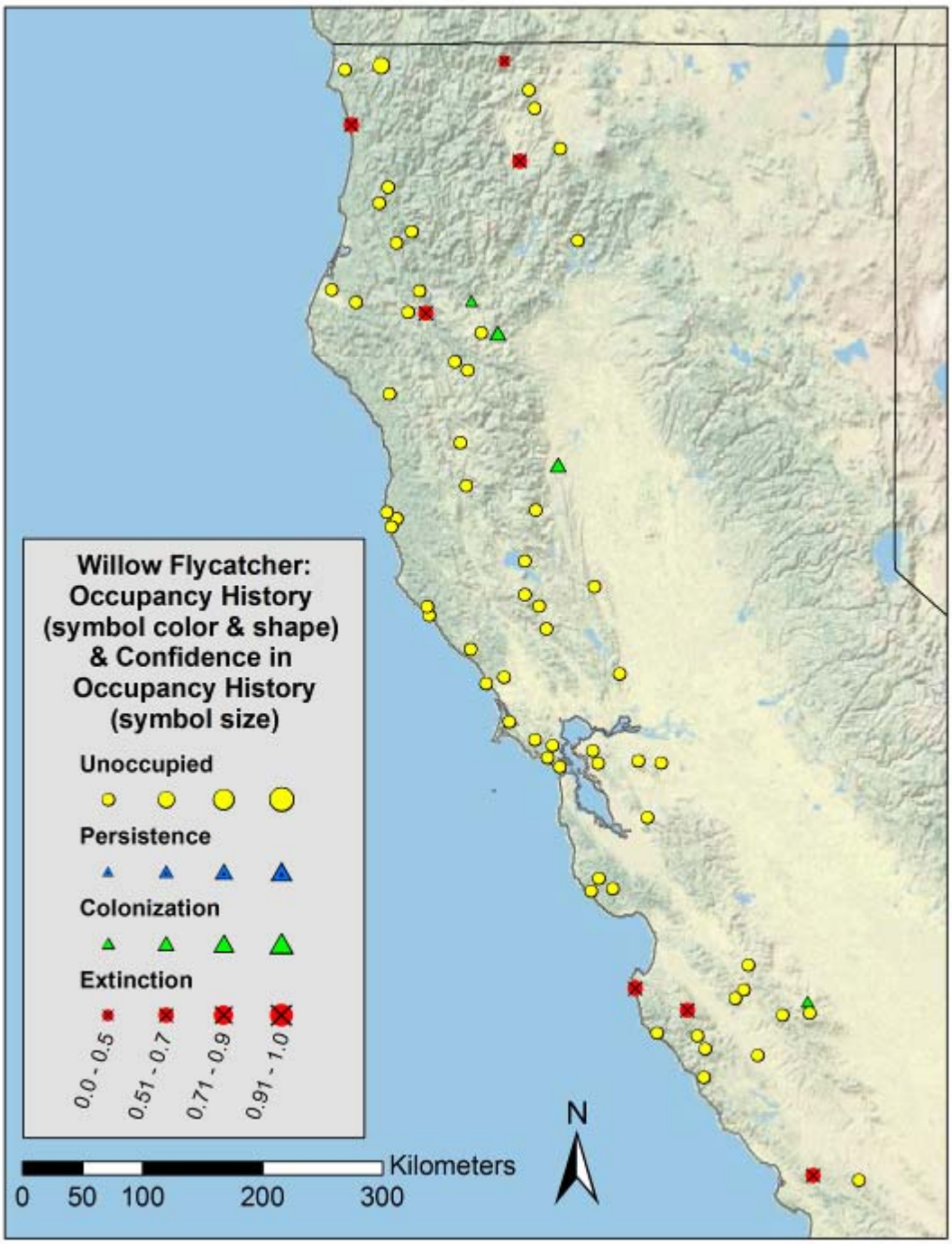

White-headed Woodpecker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

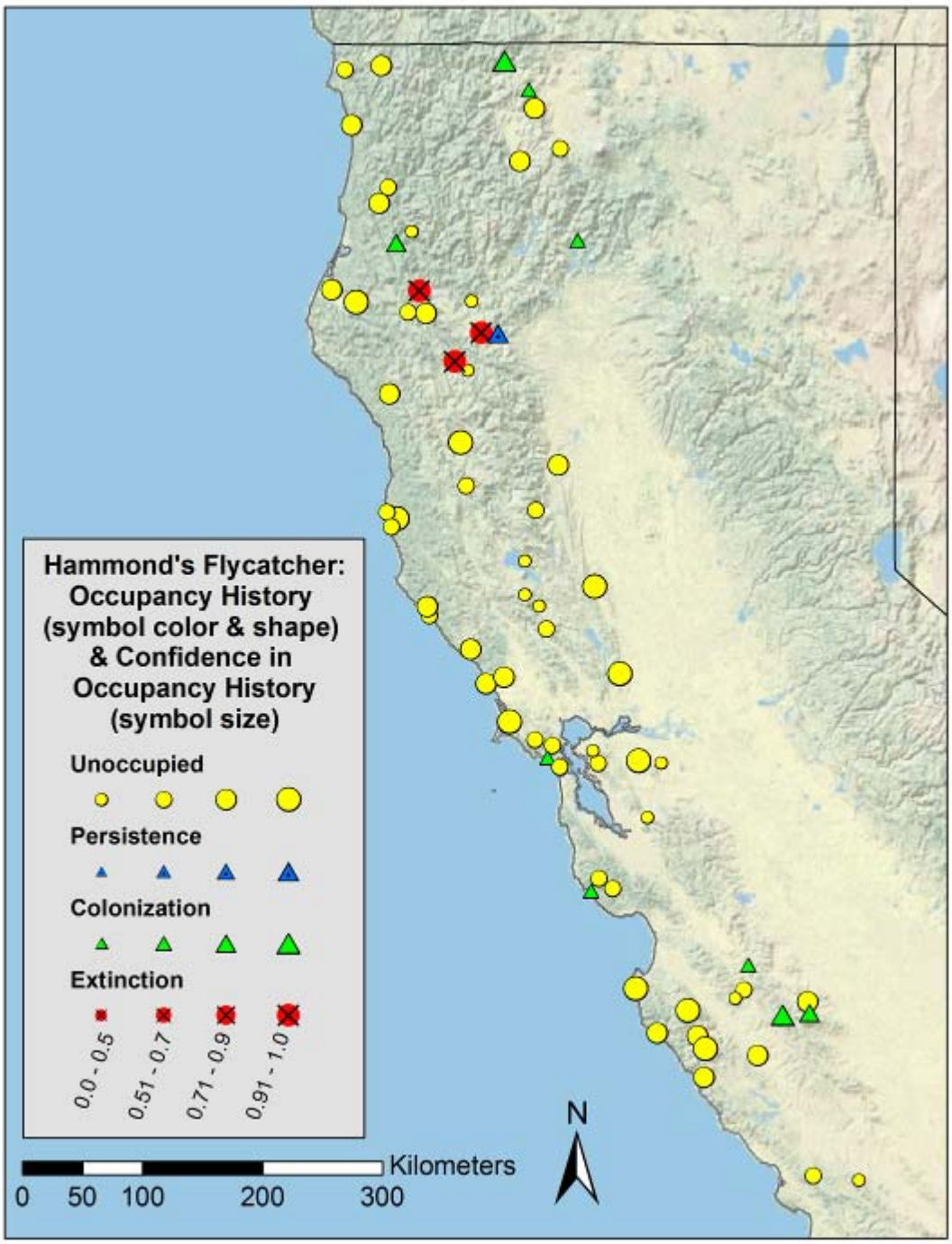

Northern Flicker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

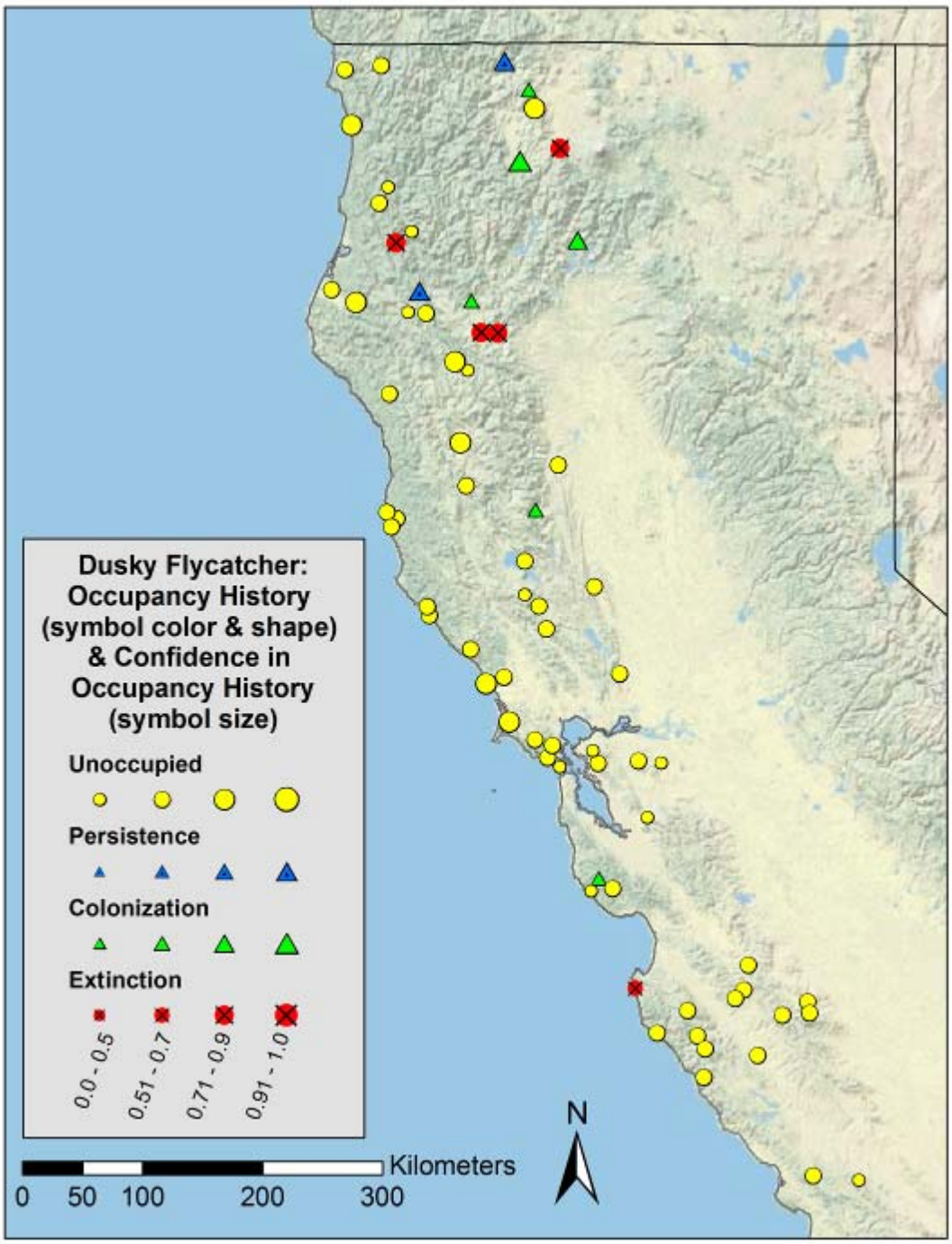

Pileated Woodpecker:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

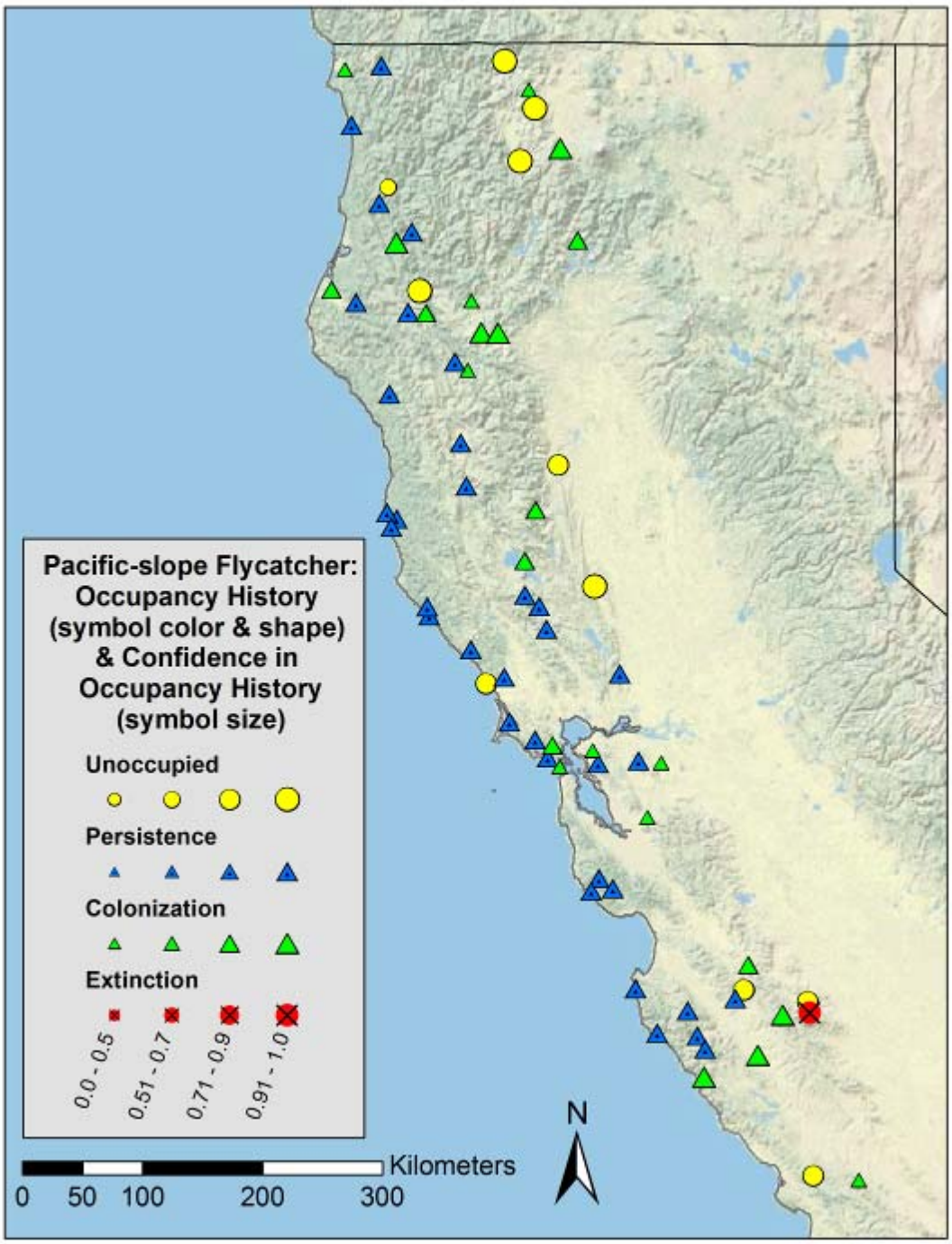

Olive-sided Flycatcher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

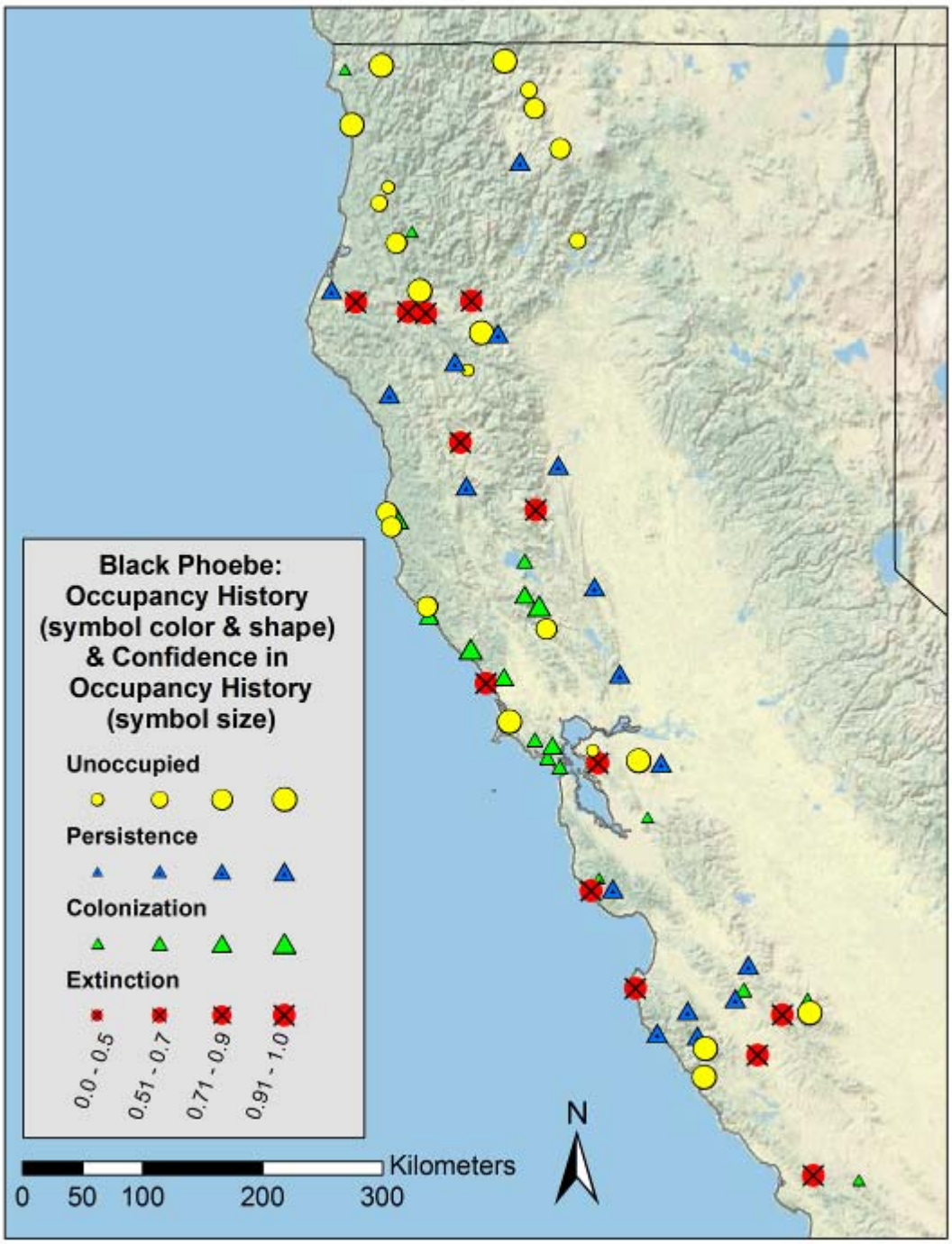

Western Wood-Pewee:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

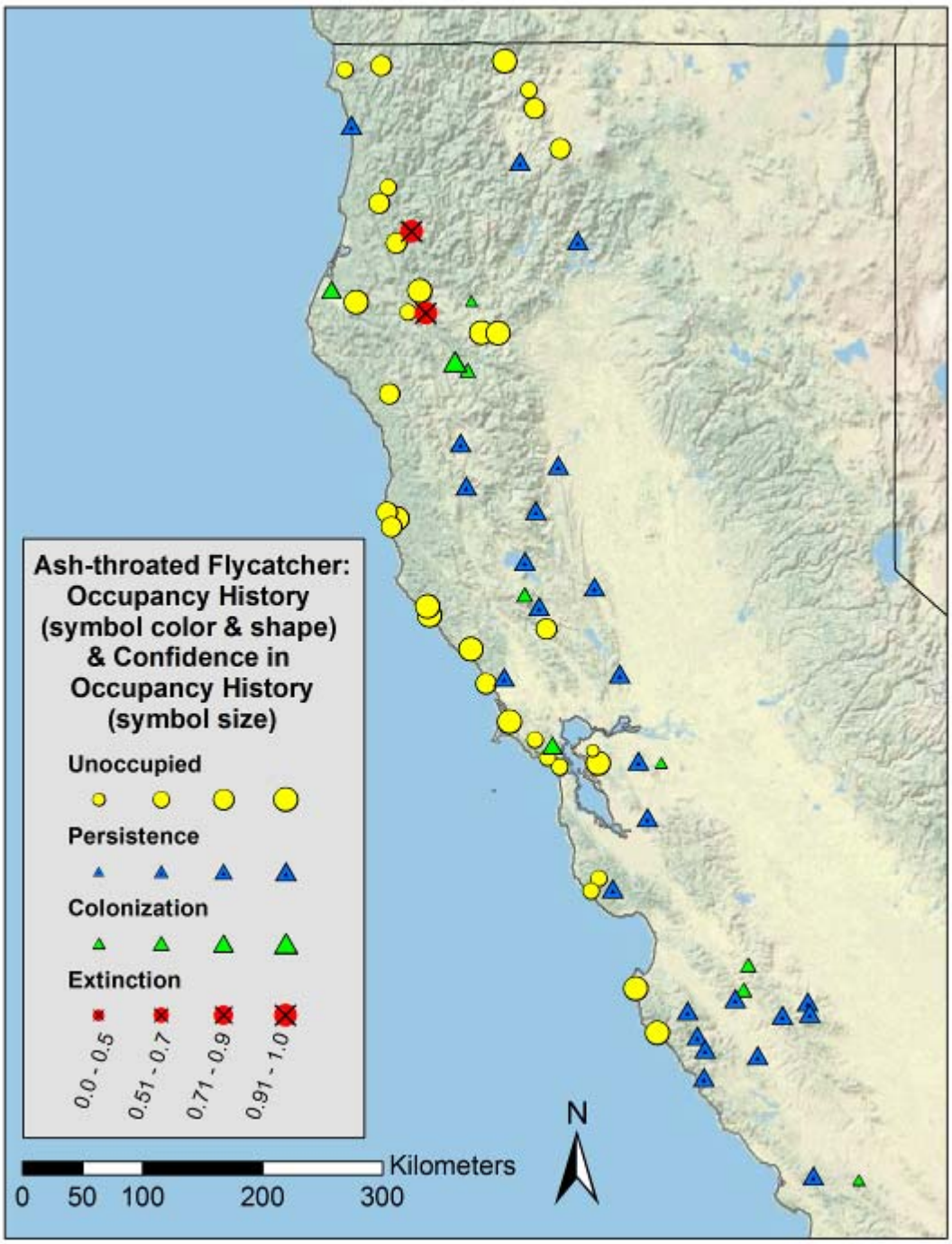

Willow Flycatcher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

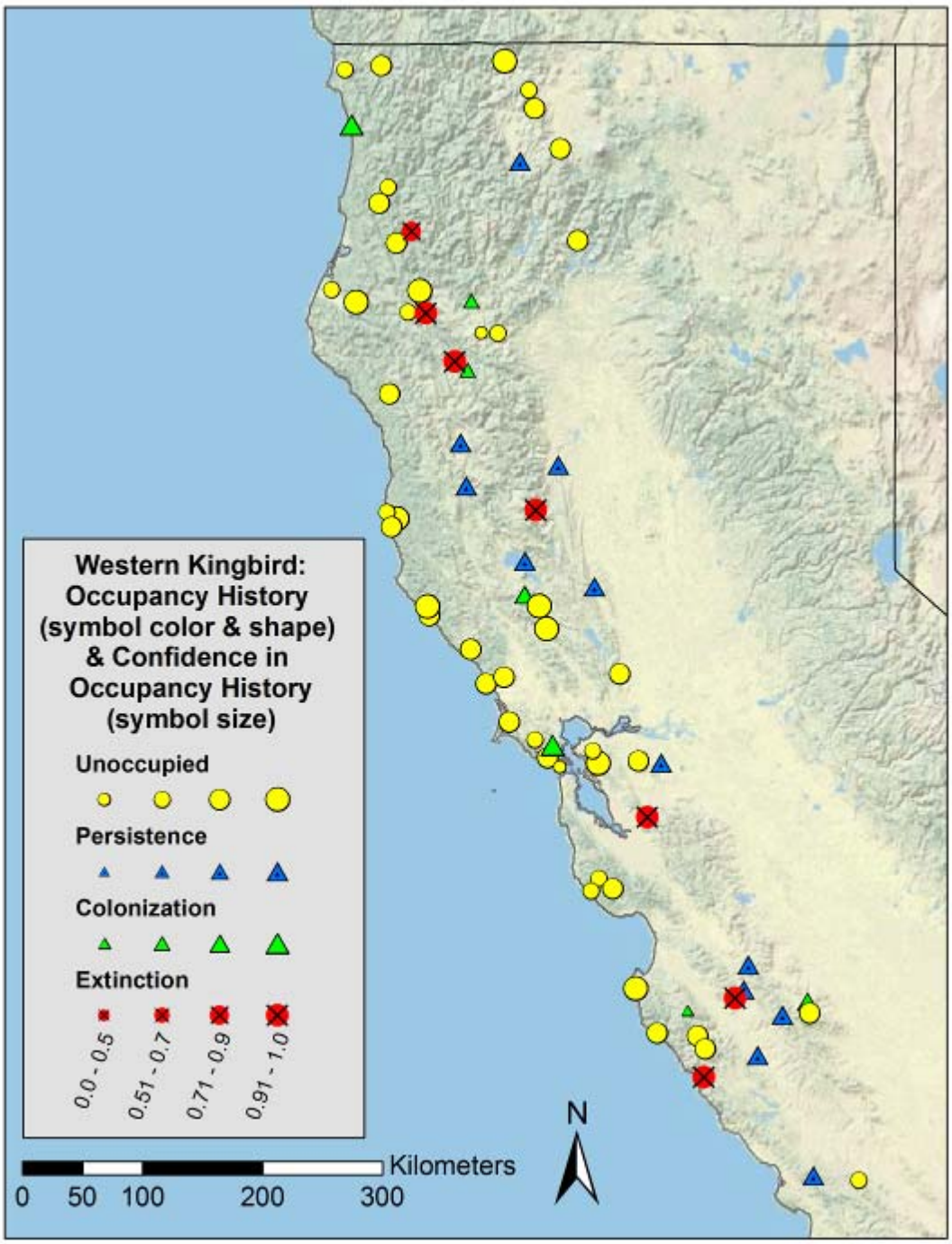

Hammond's Flycatcher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

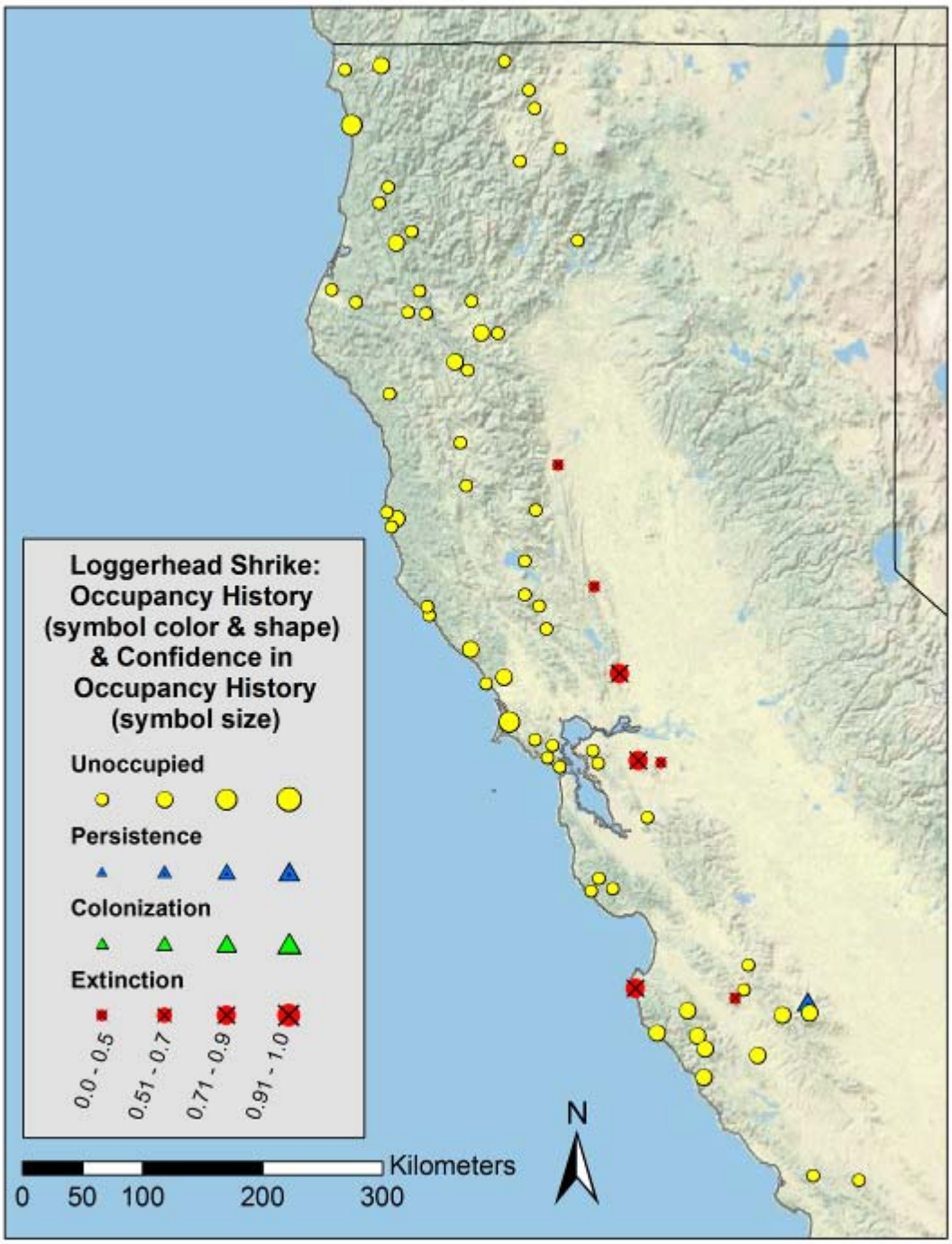

Dusky Flycatcher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

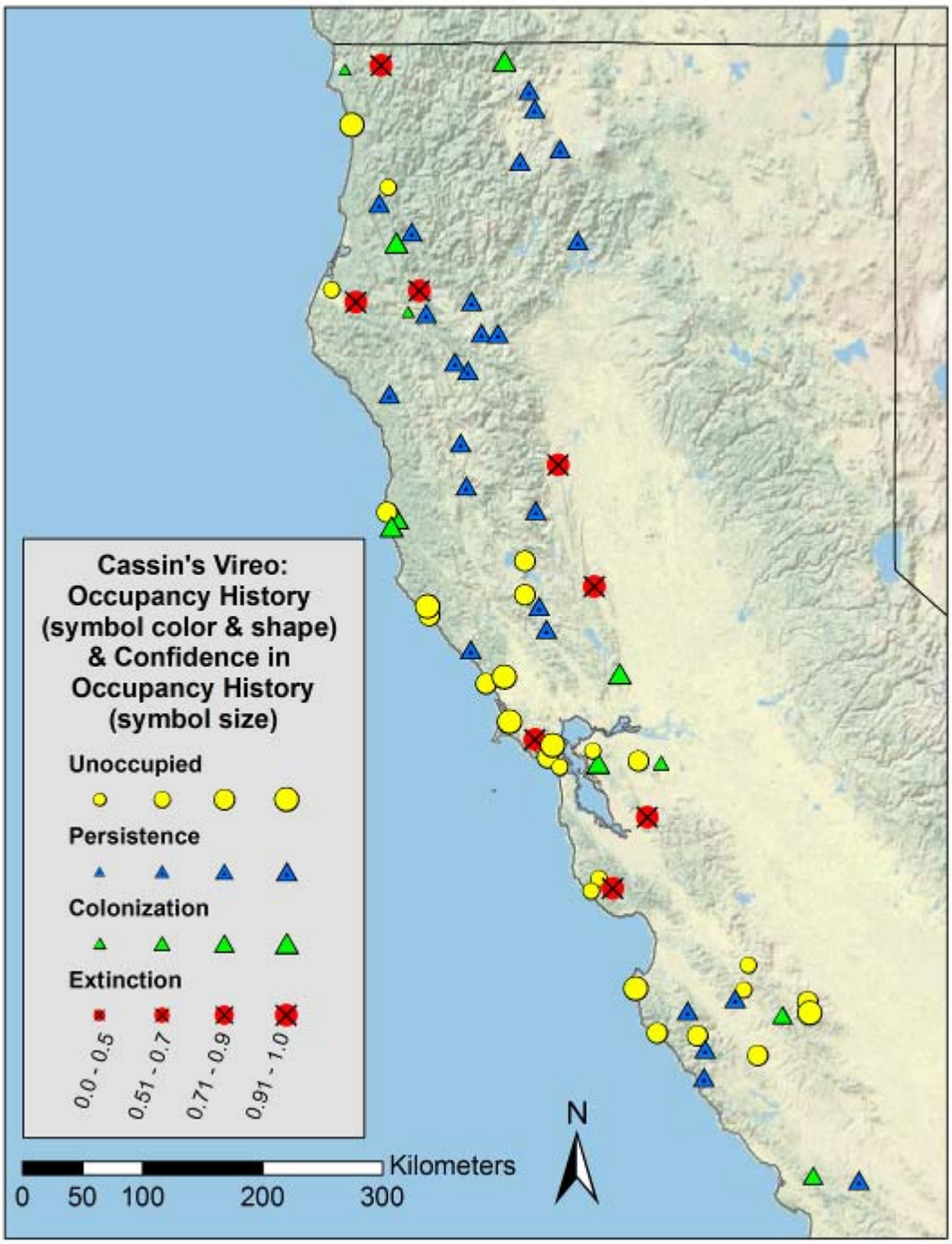

Pacific-slope Flycatcher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

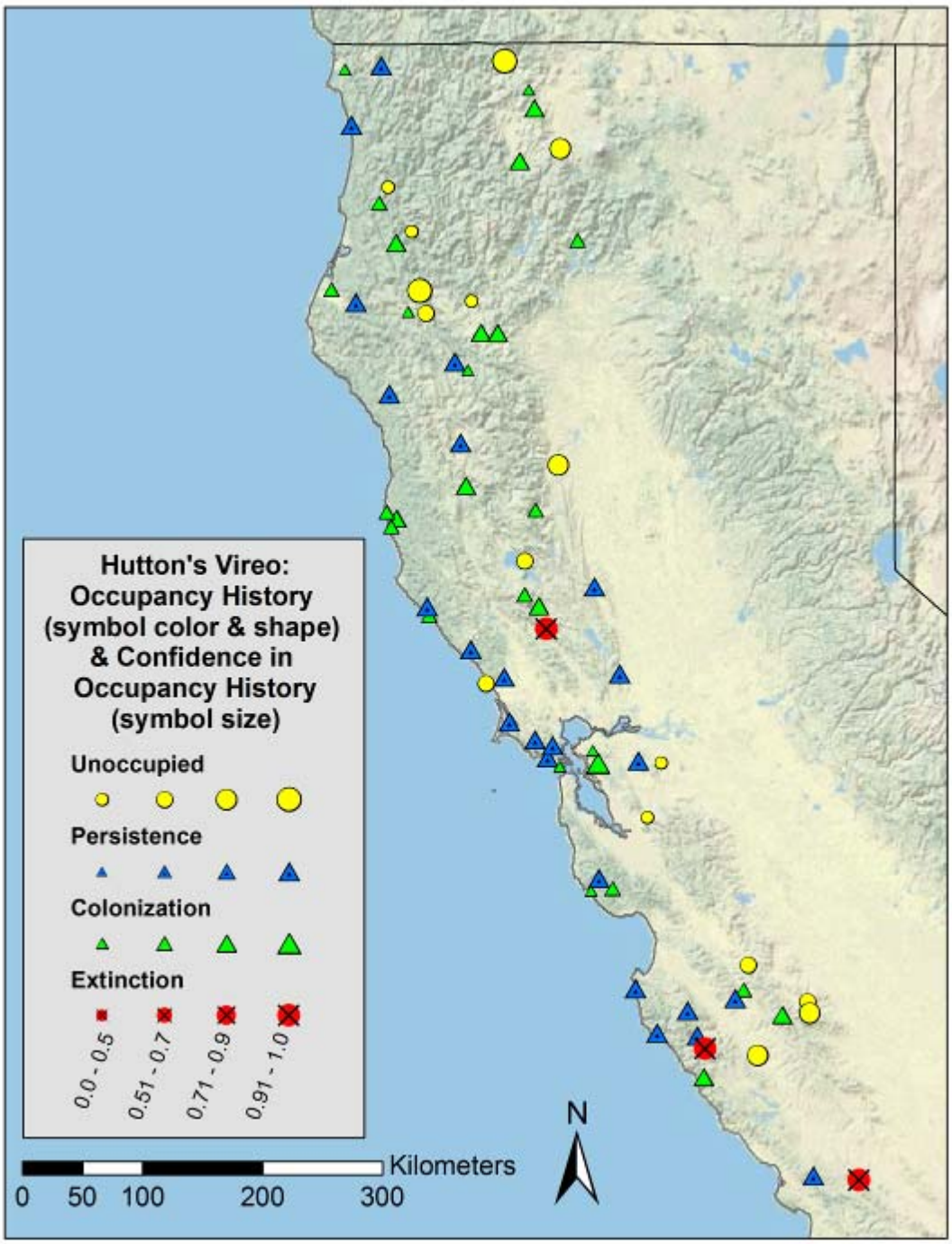

Black Phoebe:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

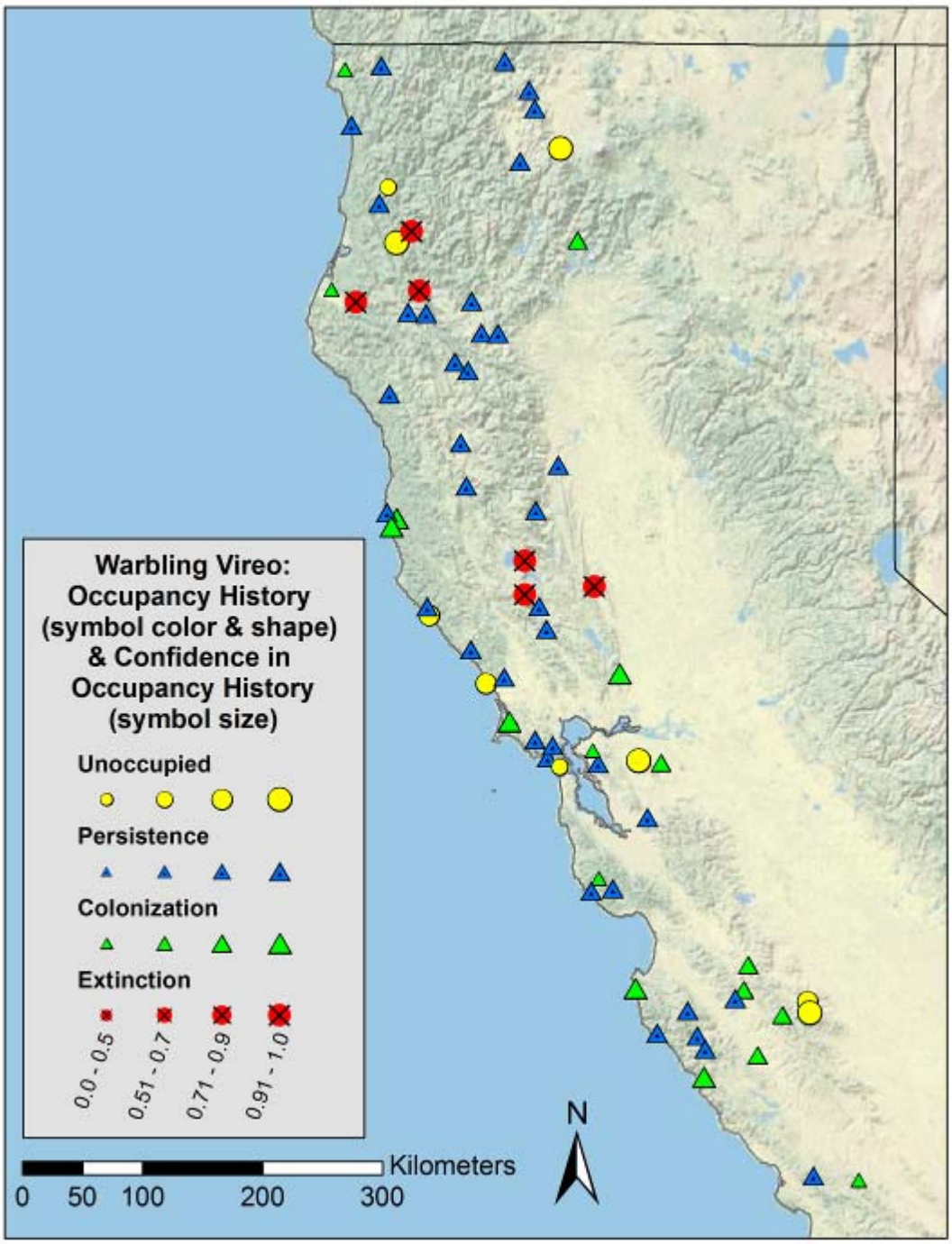

Ash-throated Flycatcher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

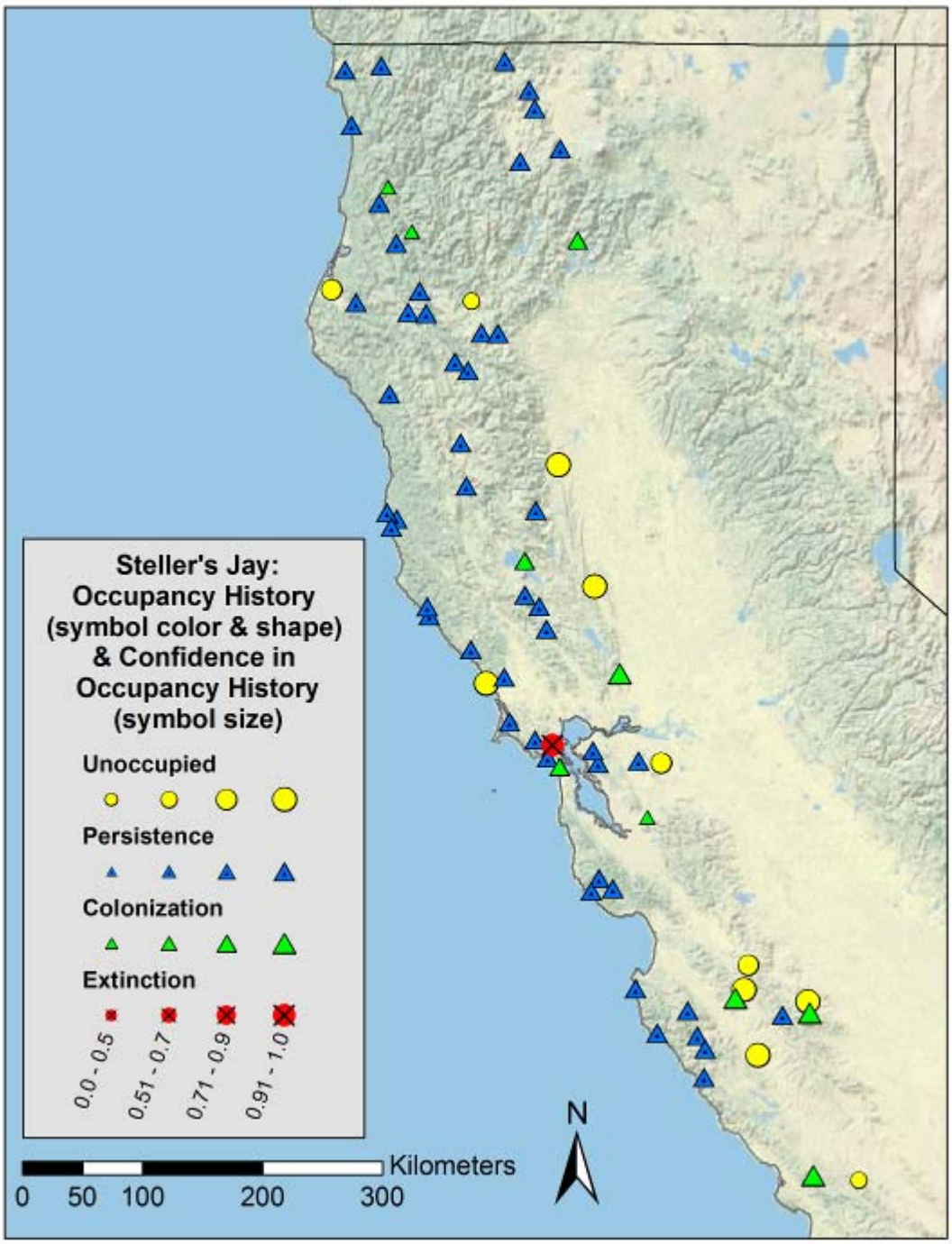

Western Kingbird:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

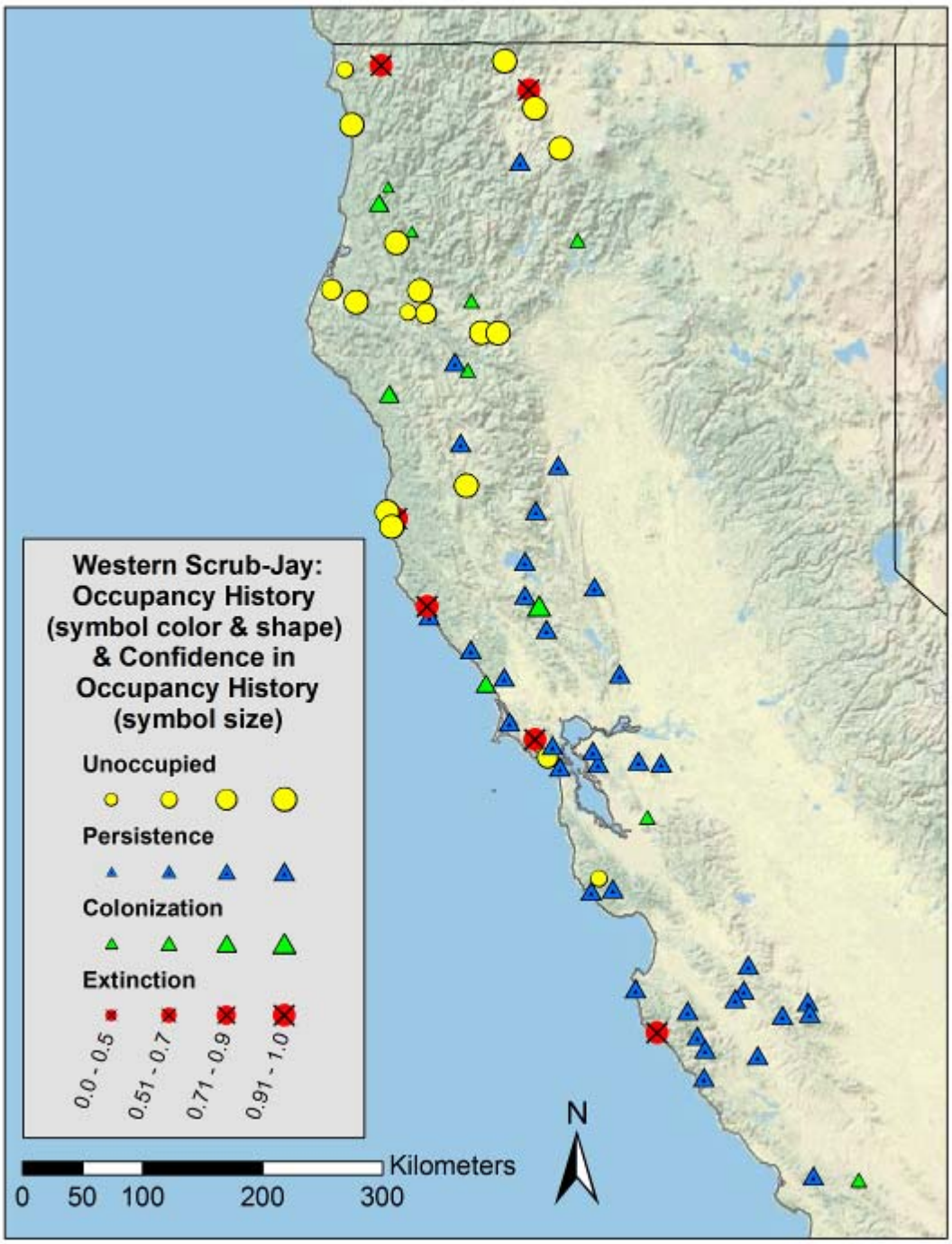

Loggerhead Shrike:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

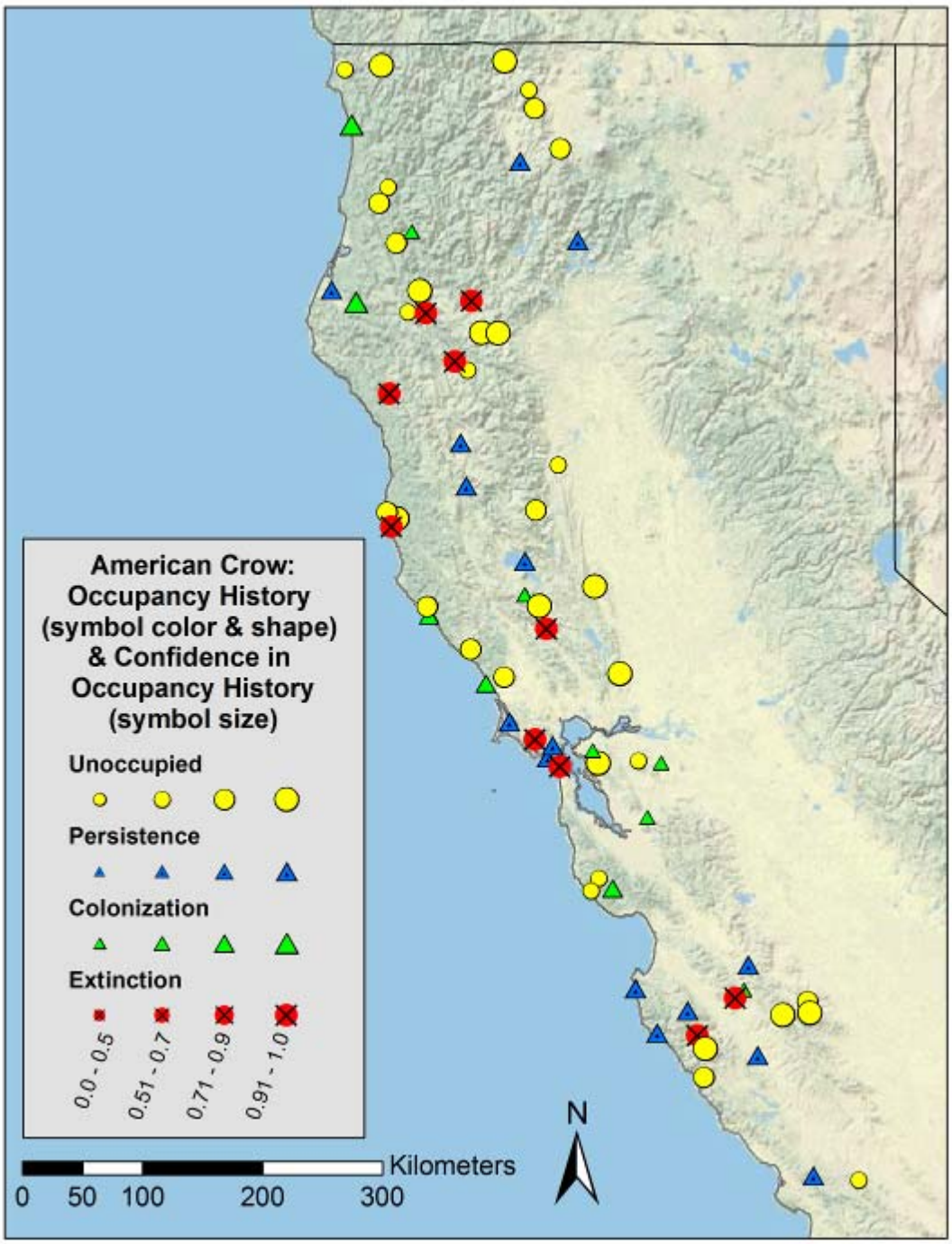

Cassin's Vireo:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

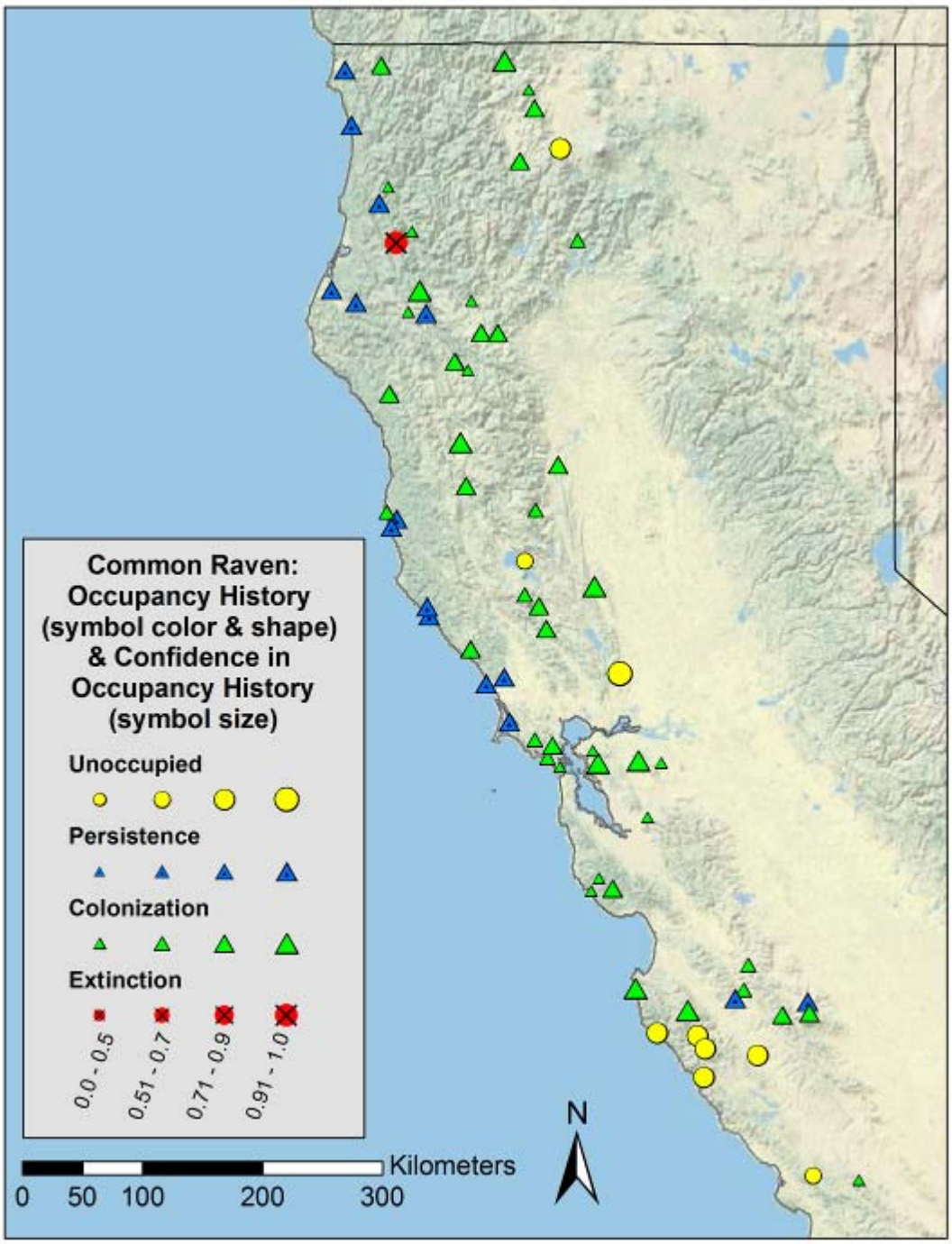

Hutton's Vireo:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

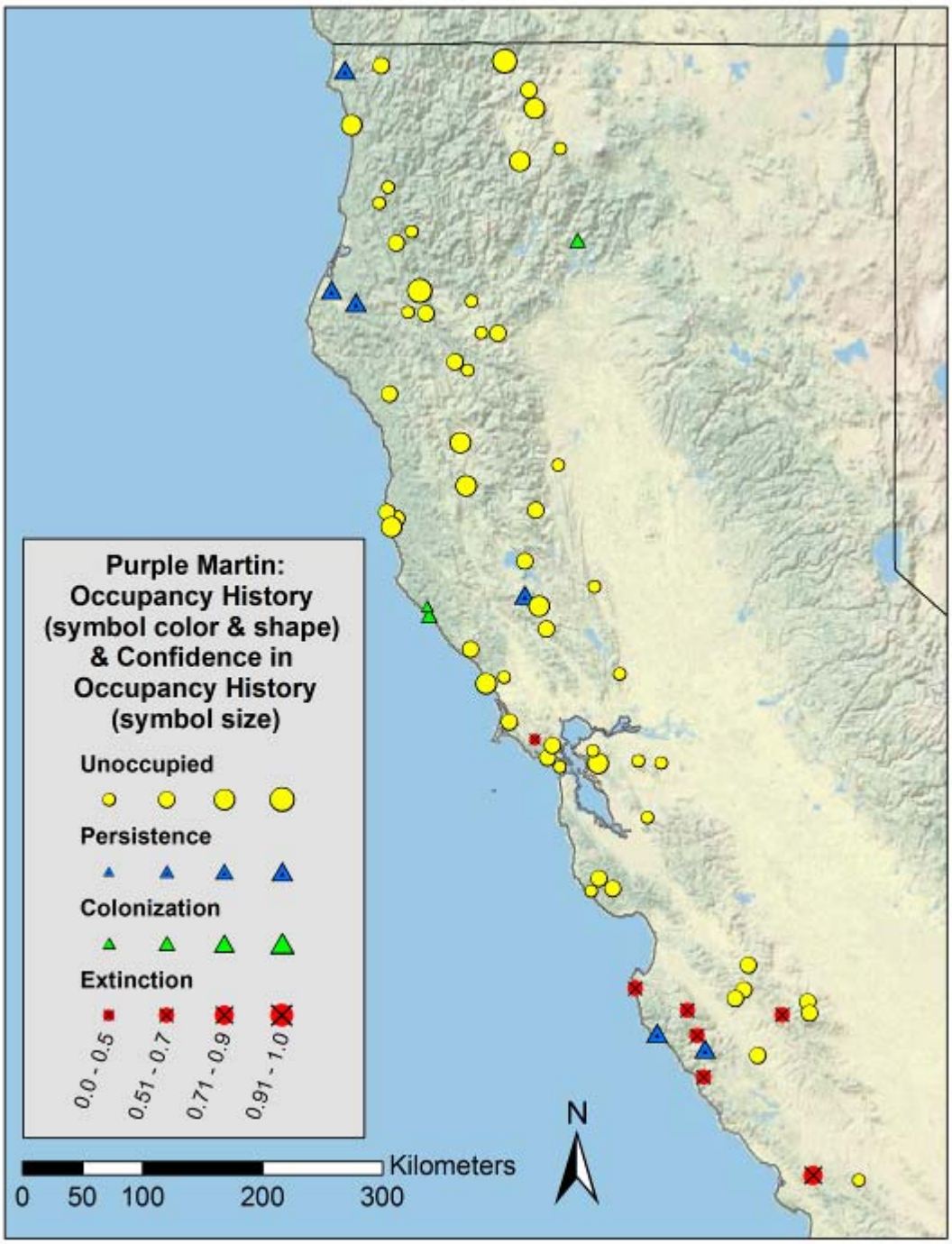

Warbling Vireo:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

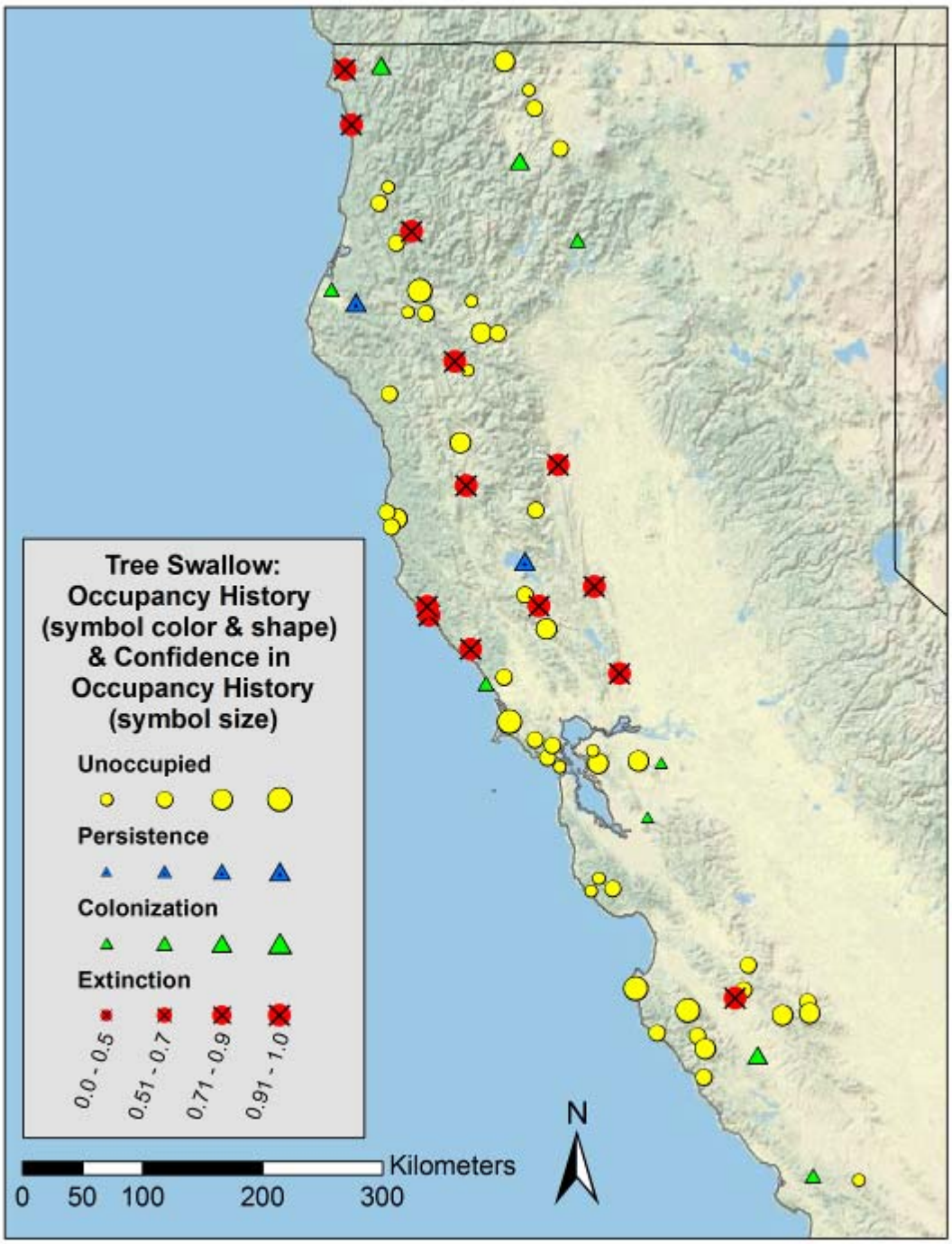

Steller's Jay:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

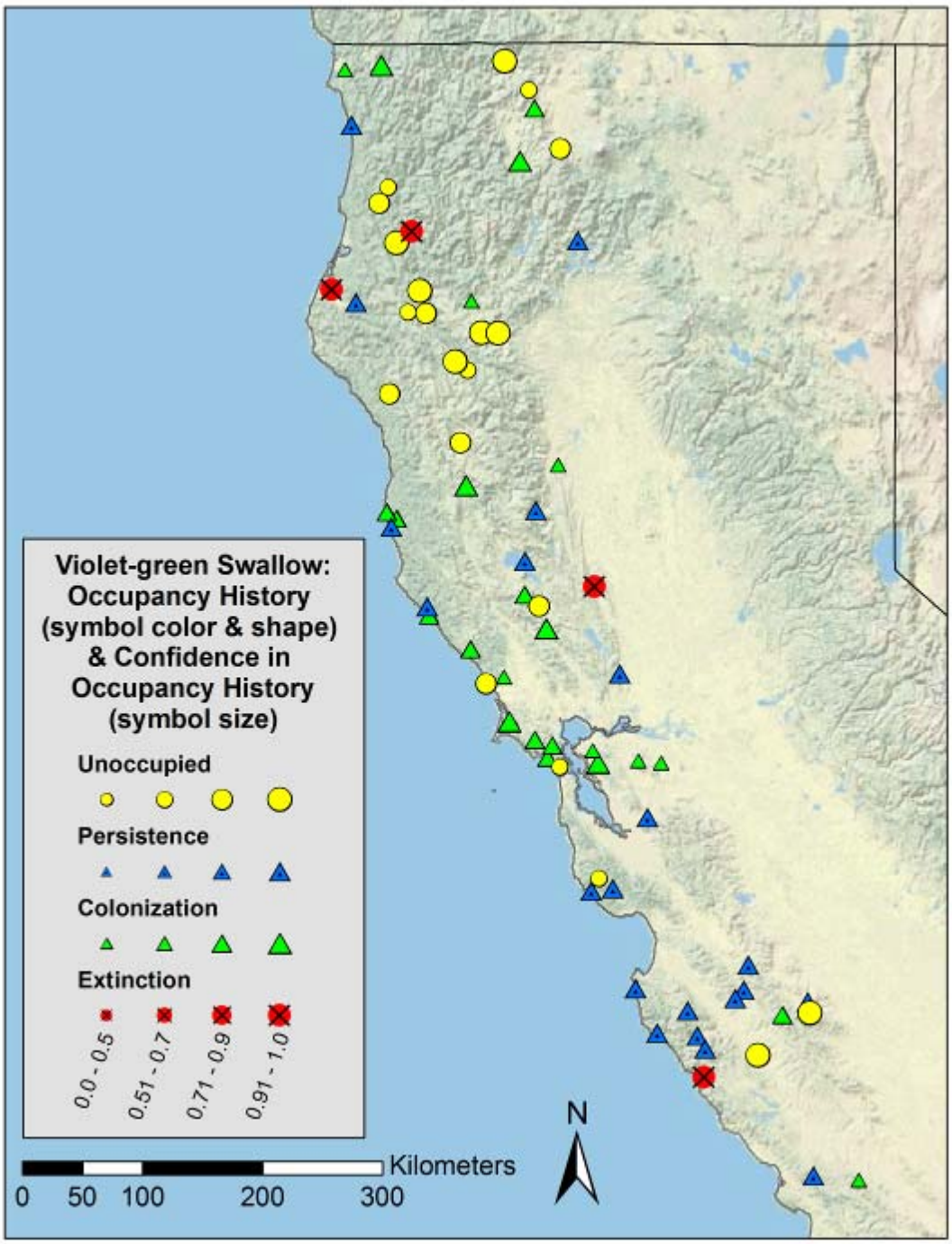

Western Scrub-Jay:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

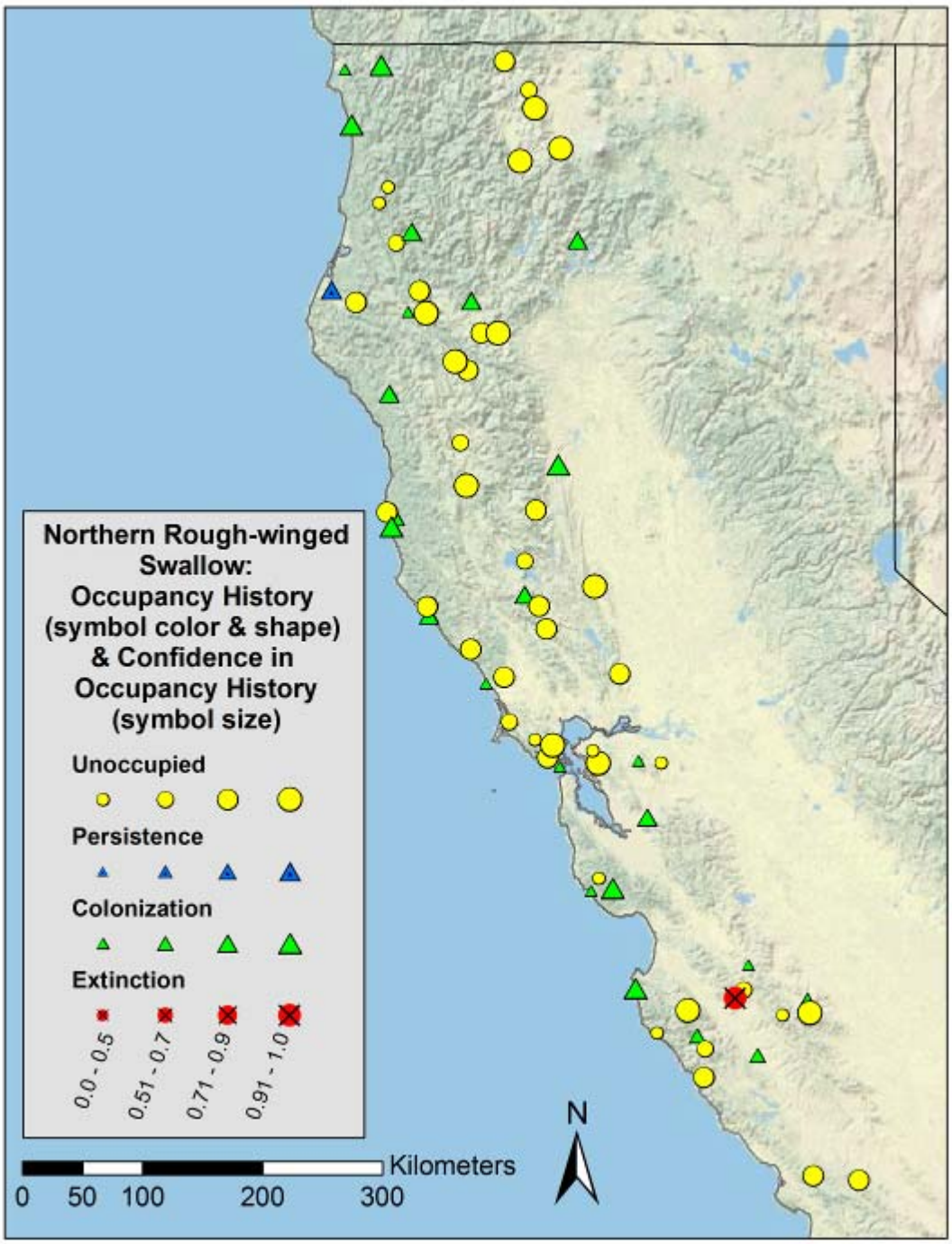

American Crow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

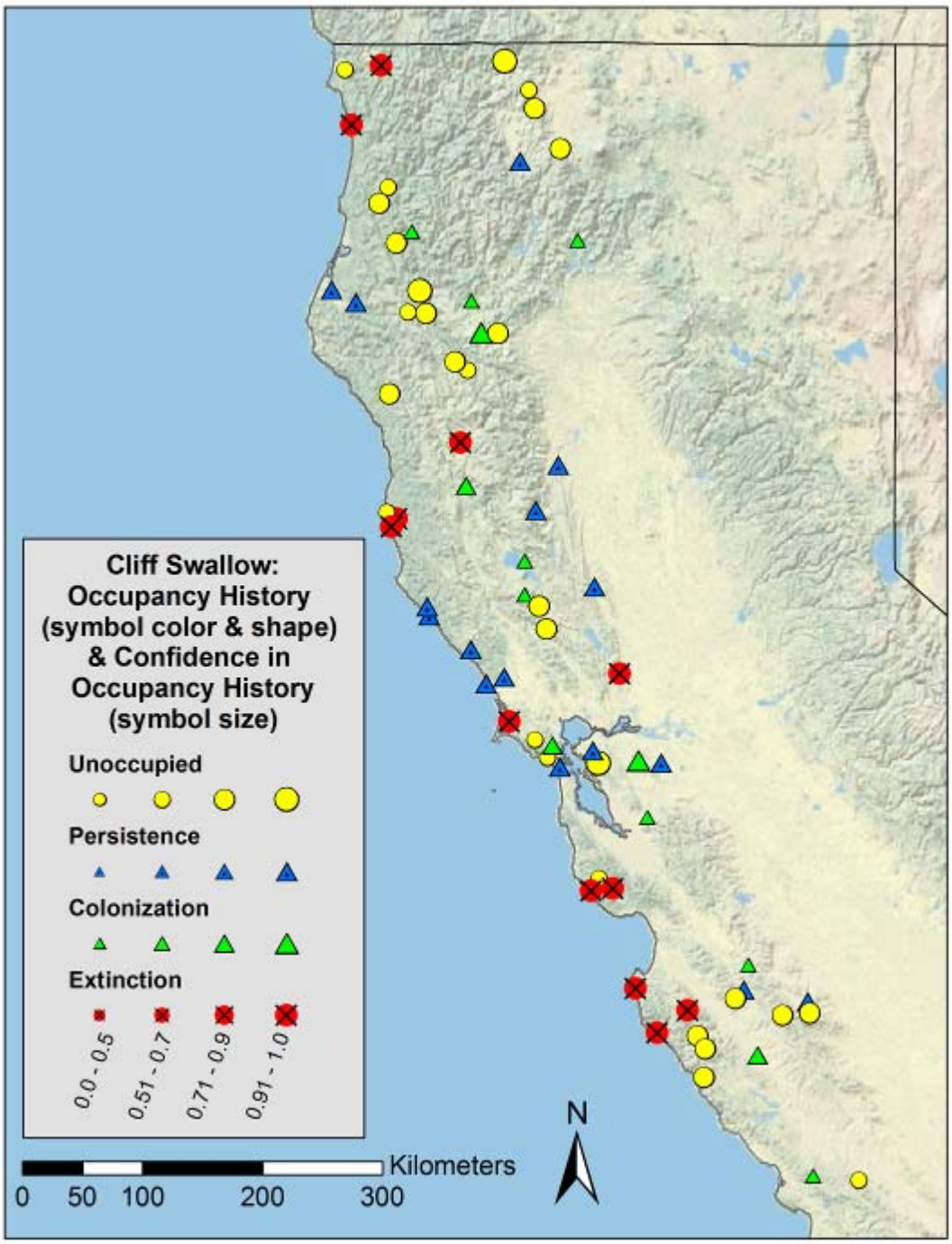

Common Raven:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

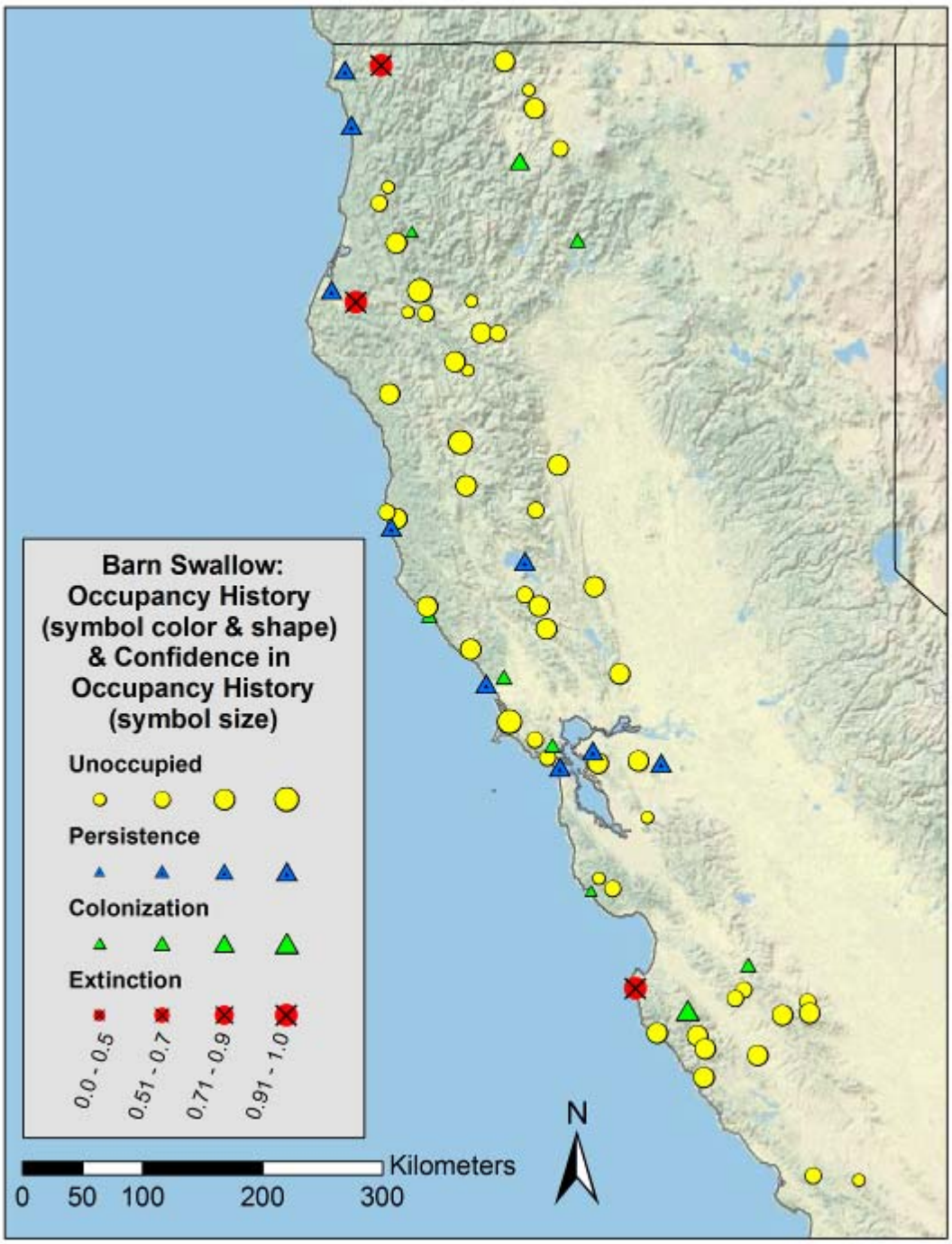

Purple Martin:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

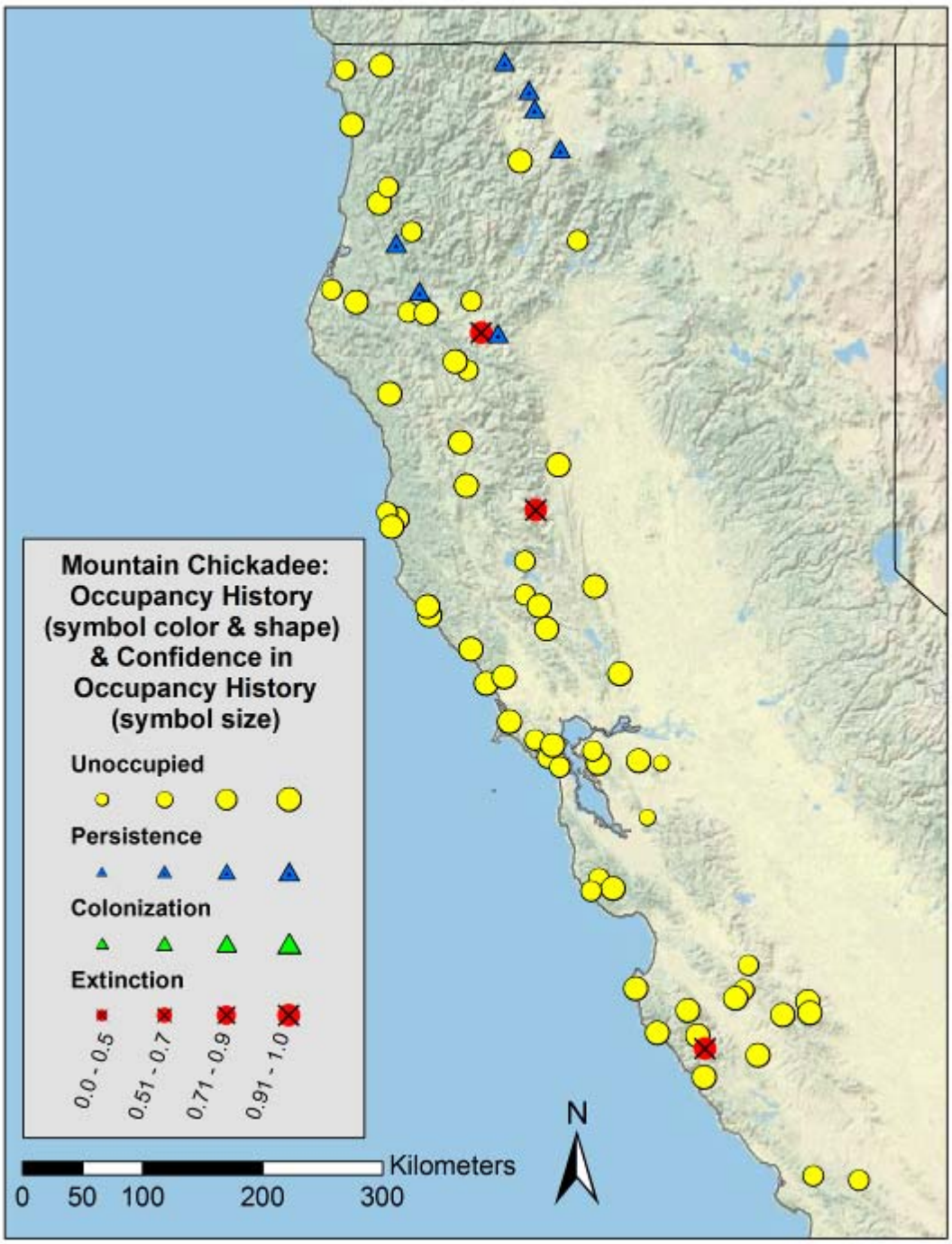

Tree Swallow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

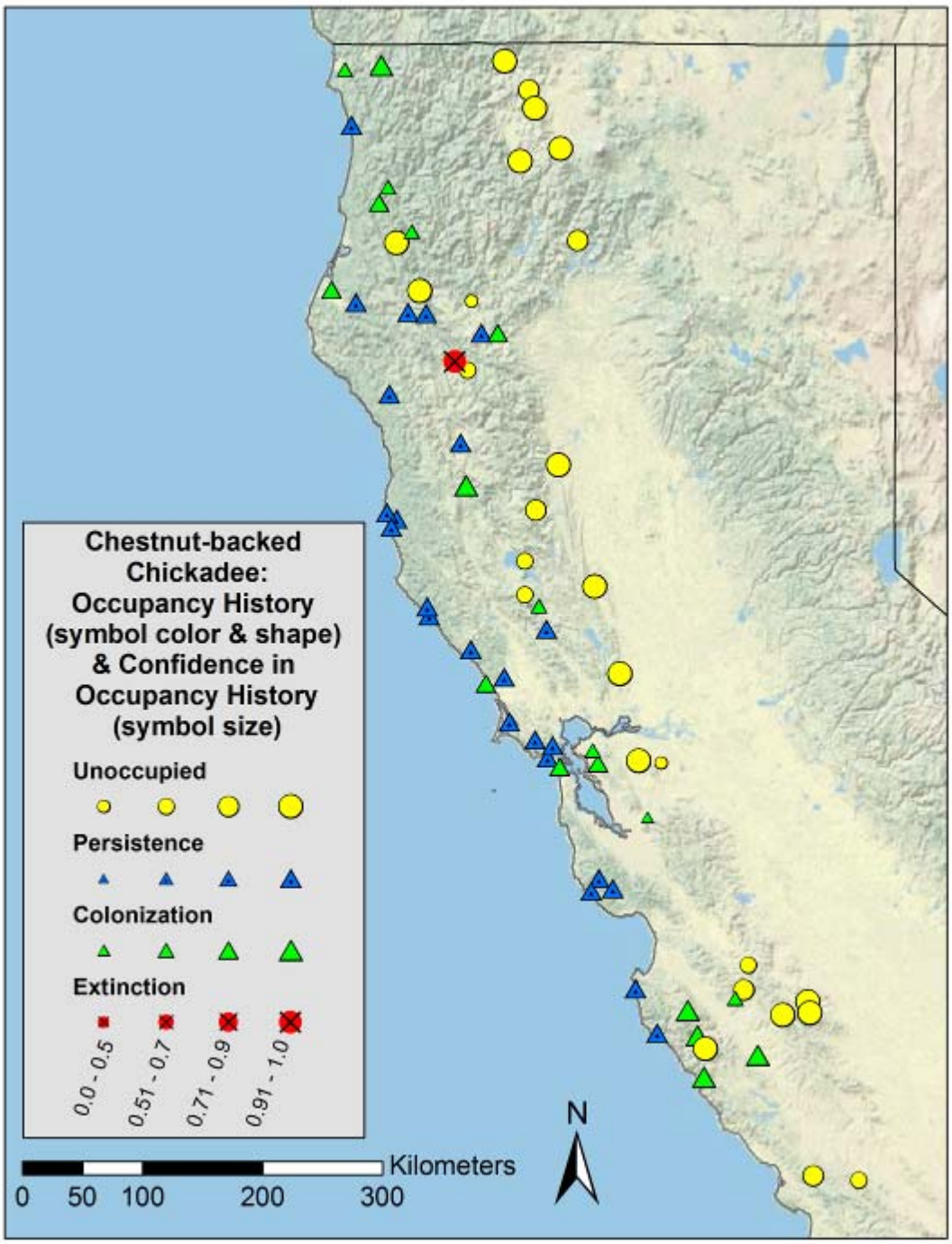

Violet-green Swallow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

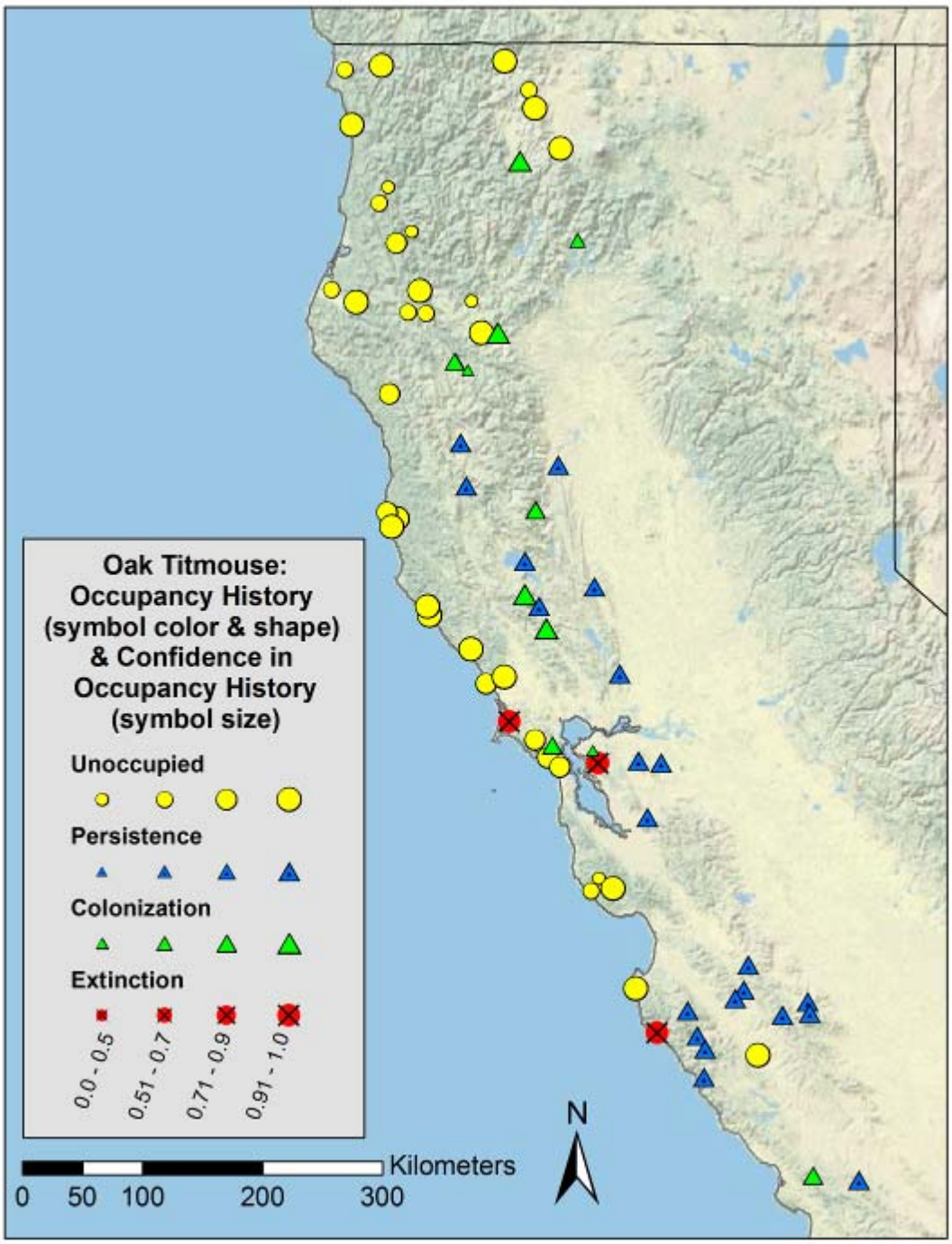

Northern Rough-winged Swallow: Occupancy History (symbol color & shape) & Confidence in Occupancy History (symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

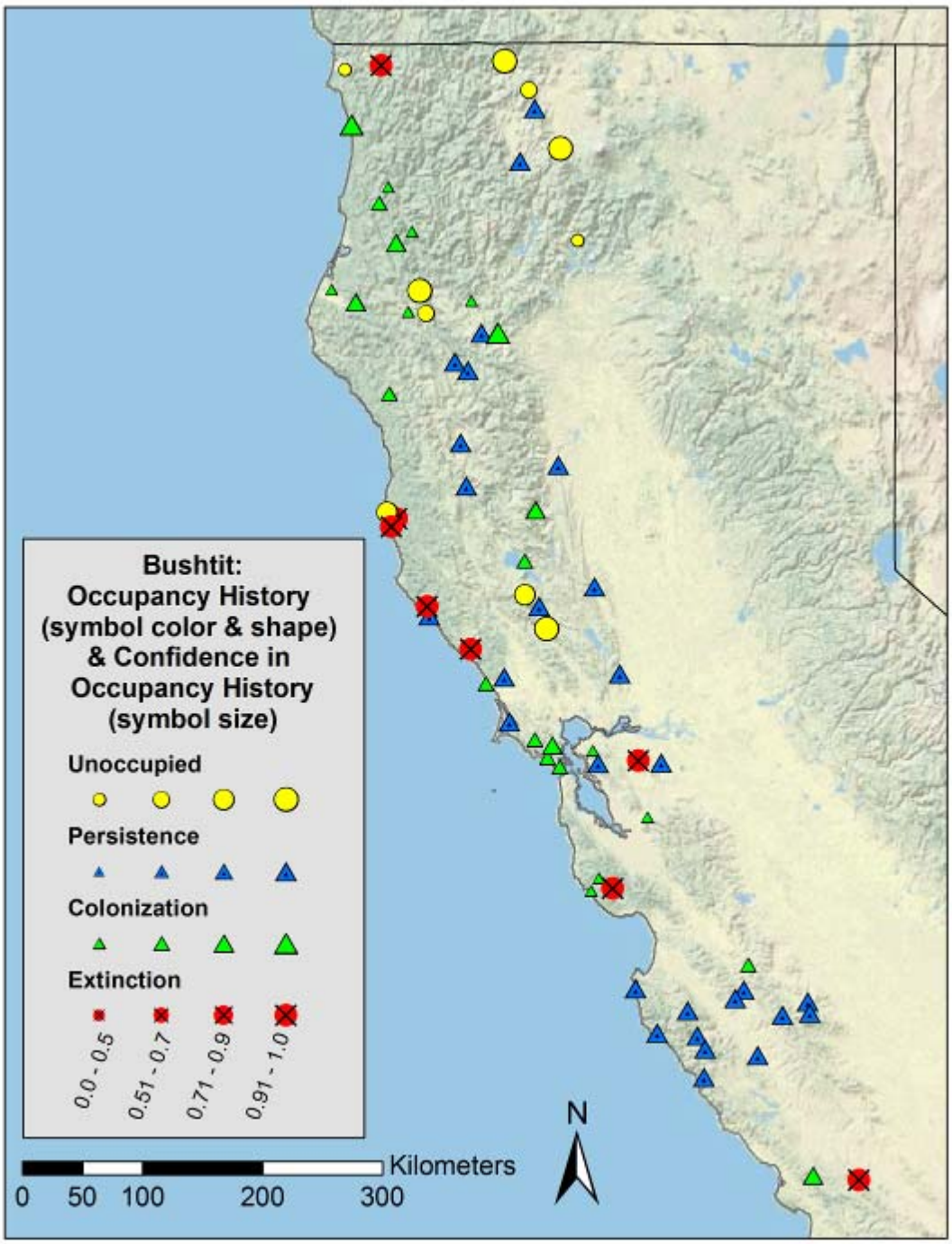

Cliff Swallow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

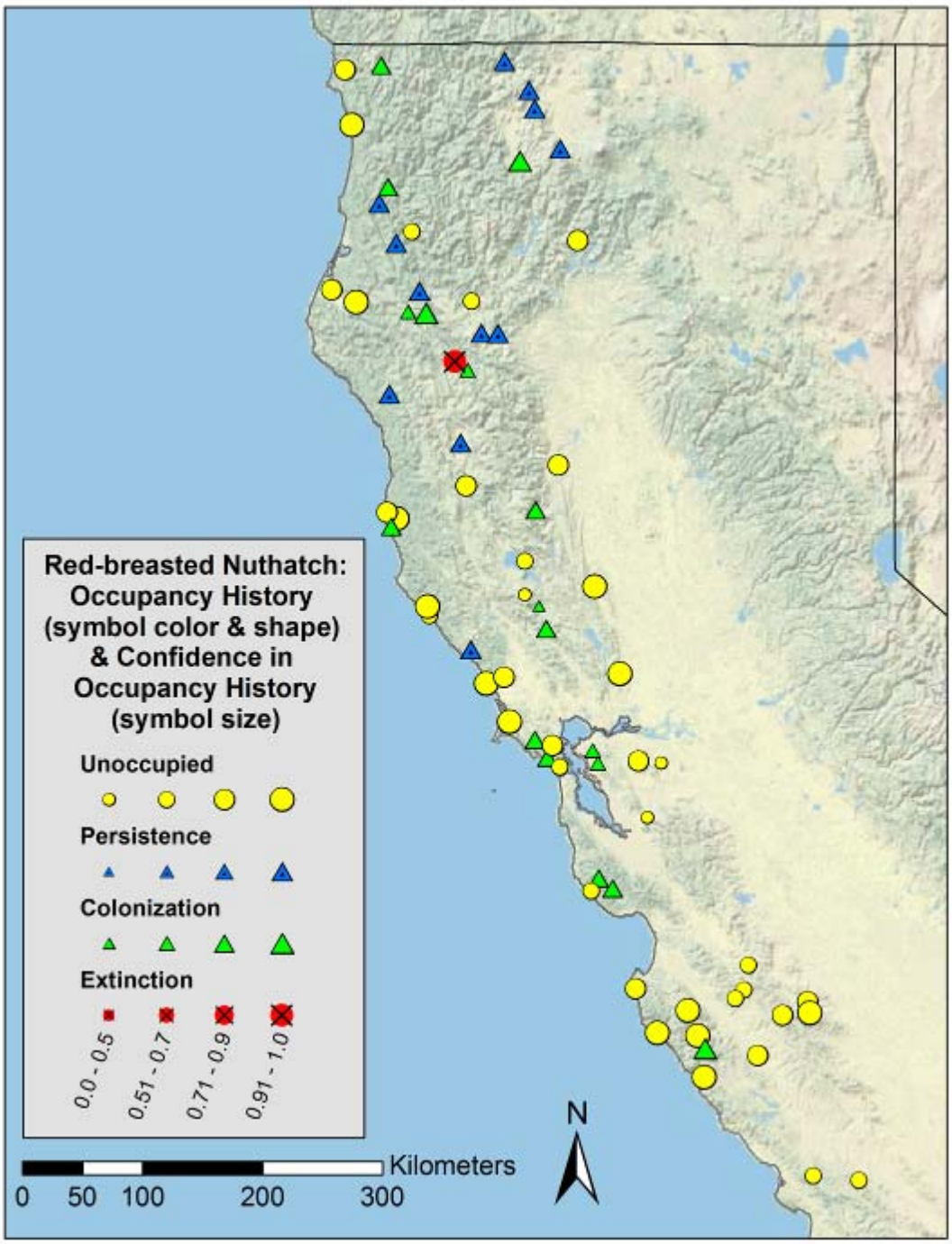

Barn Swallow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

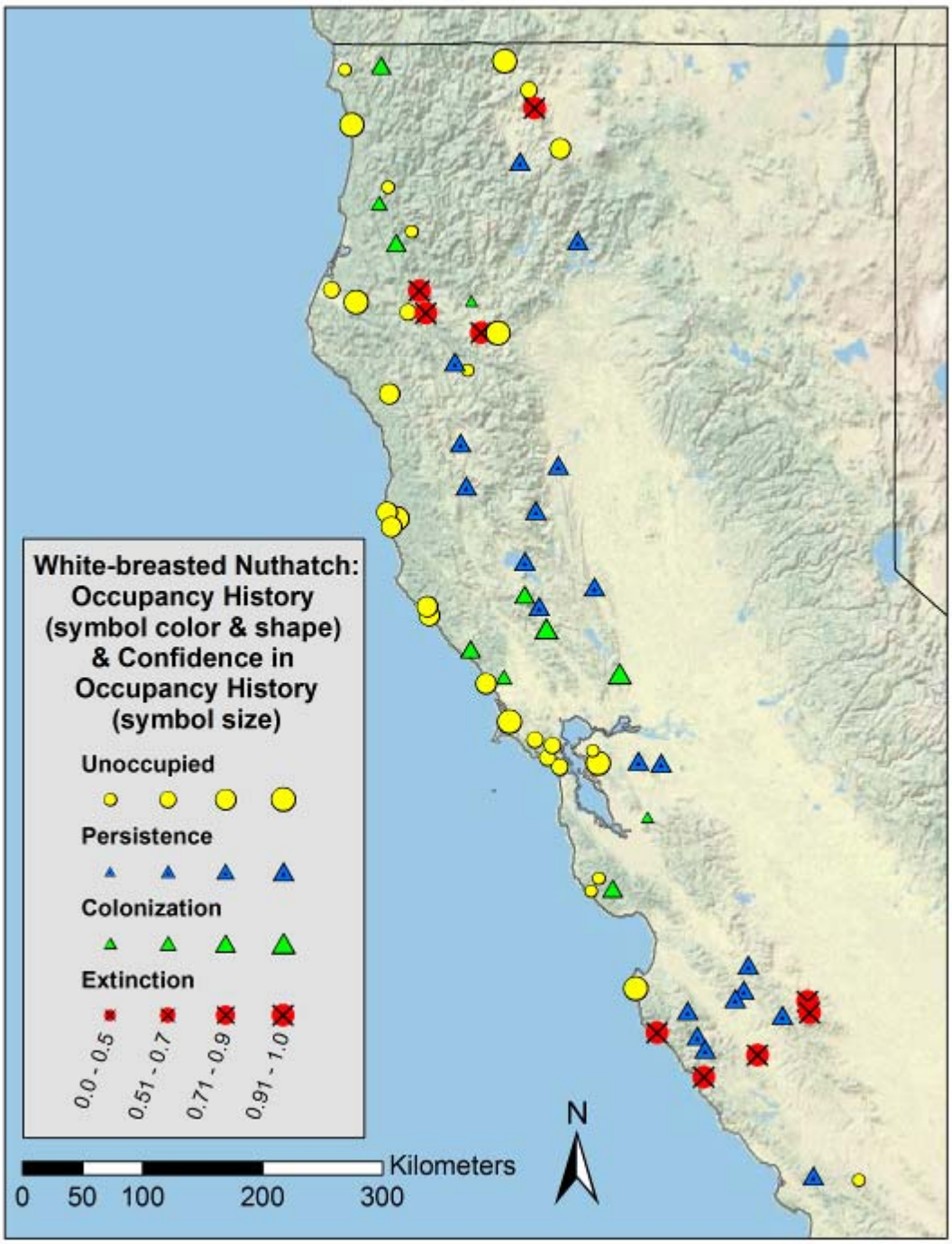

Mountain Chickadee:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

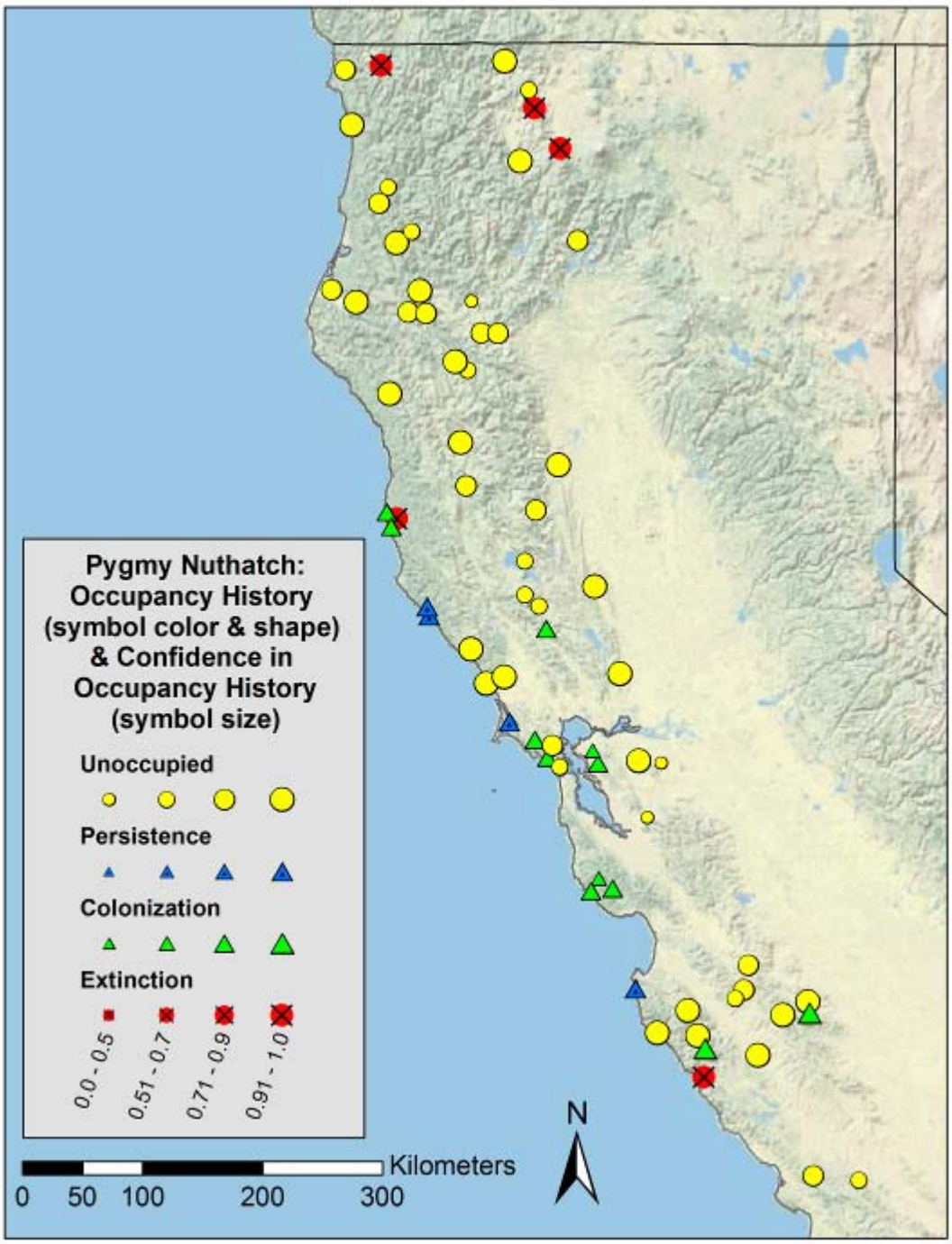

Chestnut-backed Chickadee: Occupancy History (symbol color & shape) & Confidence in Occupancy History (symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

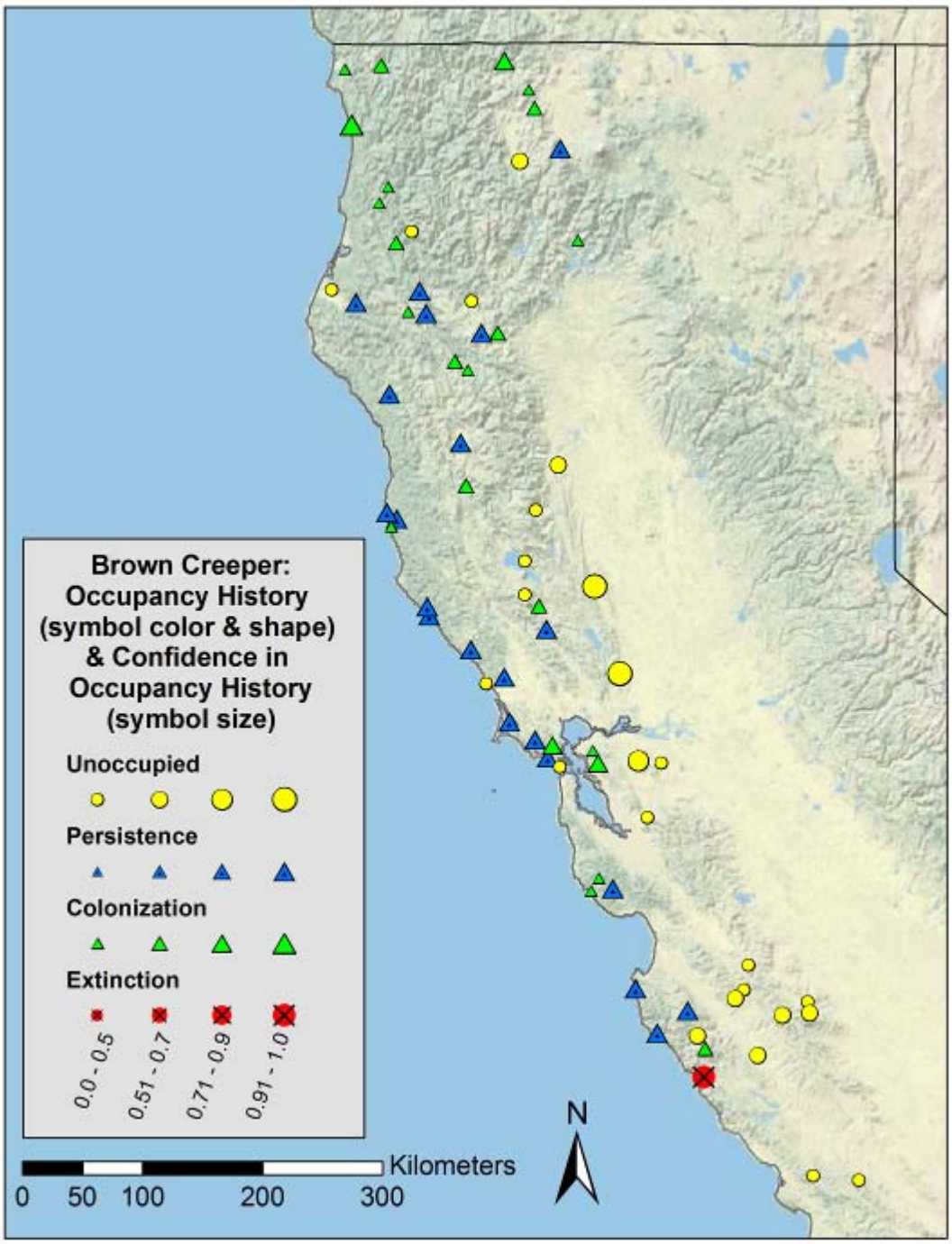

Oak Titmouse:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

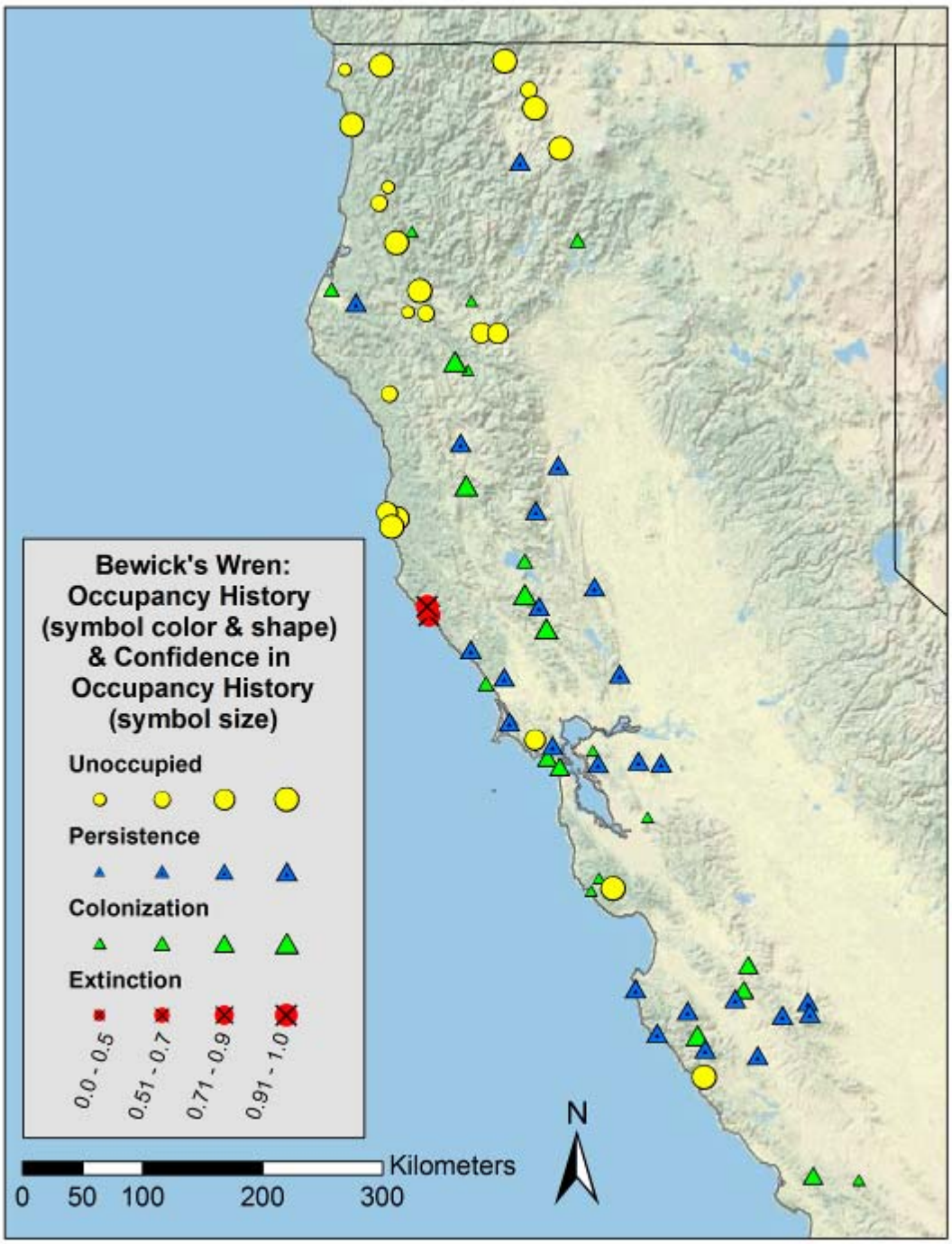

Bushtit:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

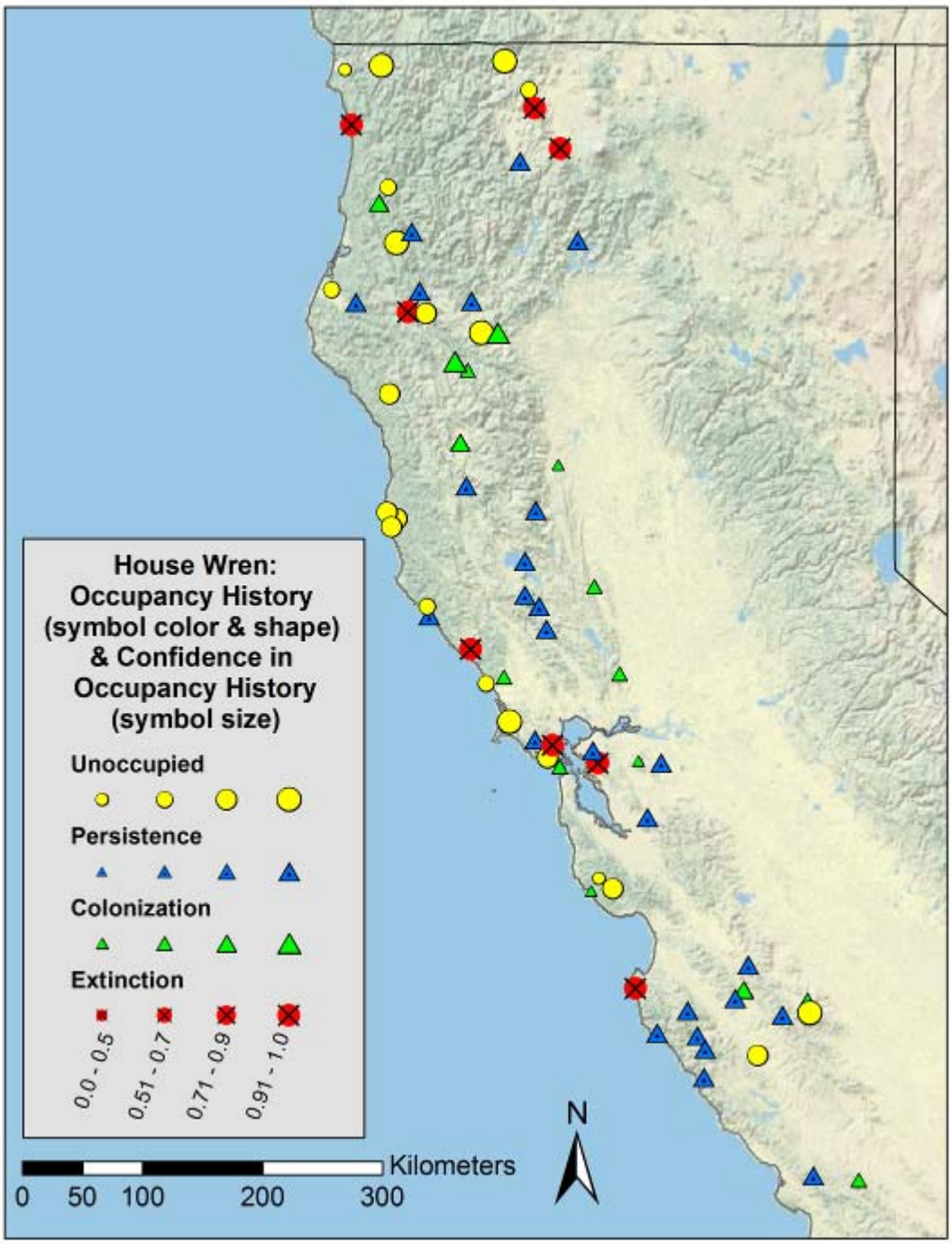

Red-breasted Nuthatch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

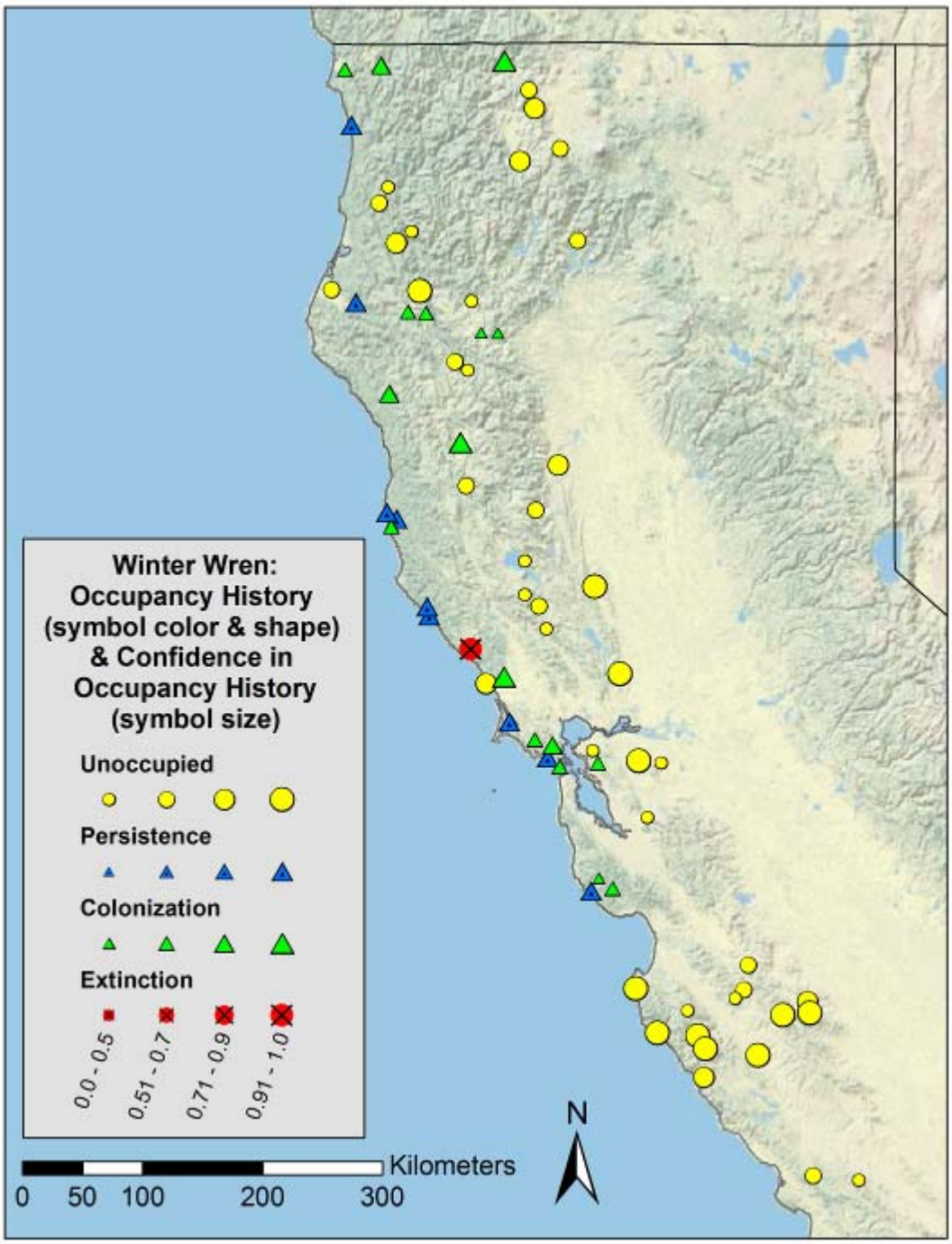

White-breasted Nuthatch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

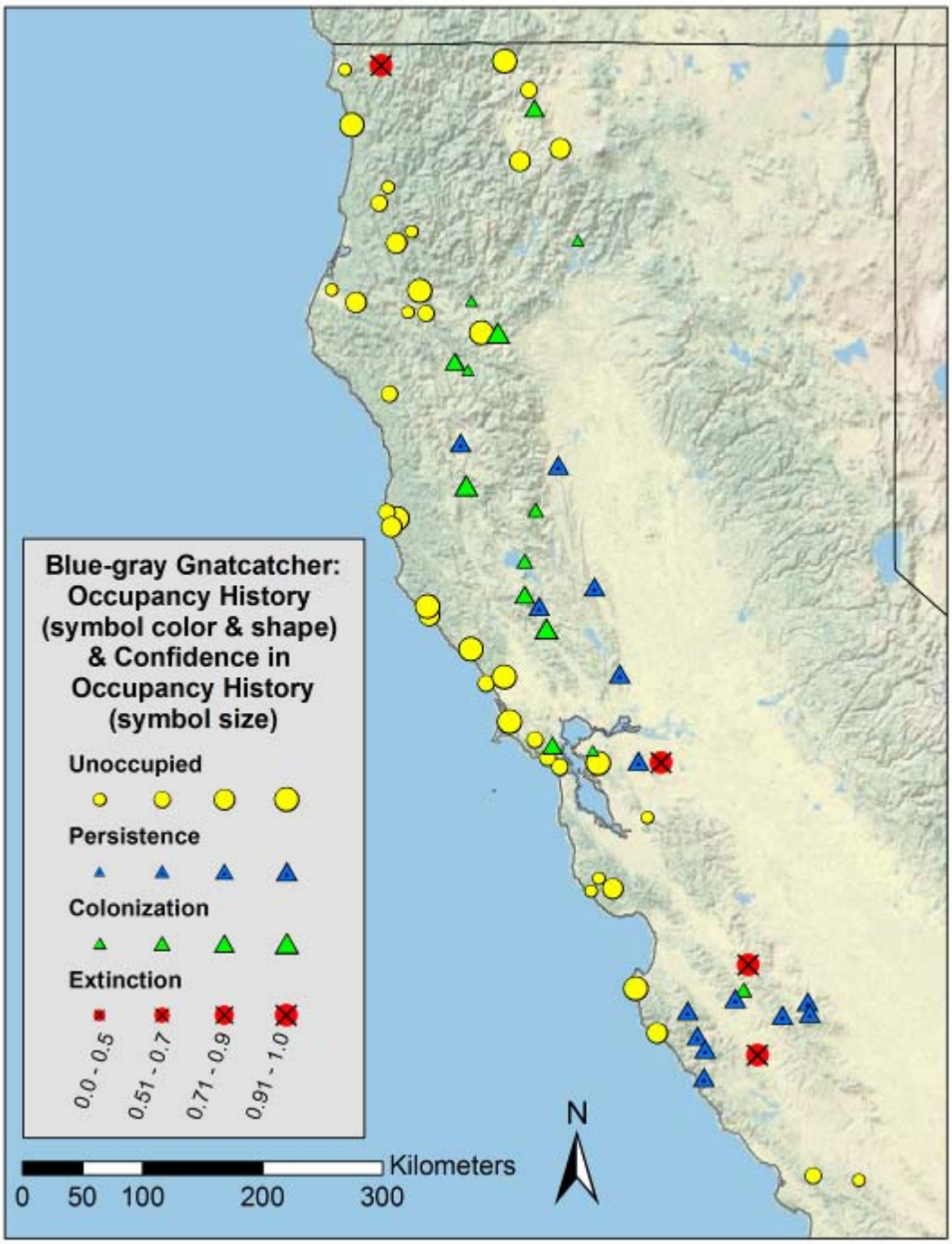

Pygmy Nuthatch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

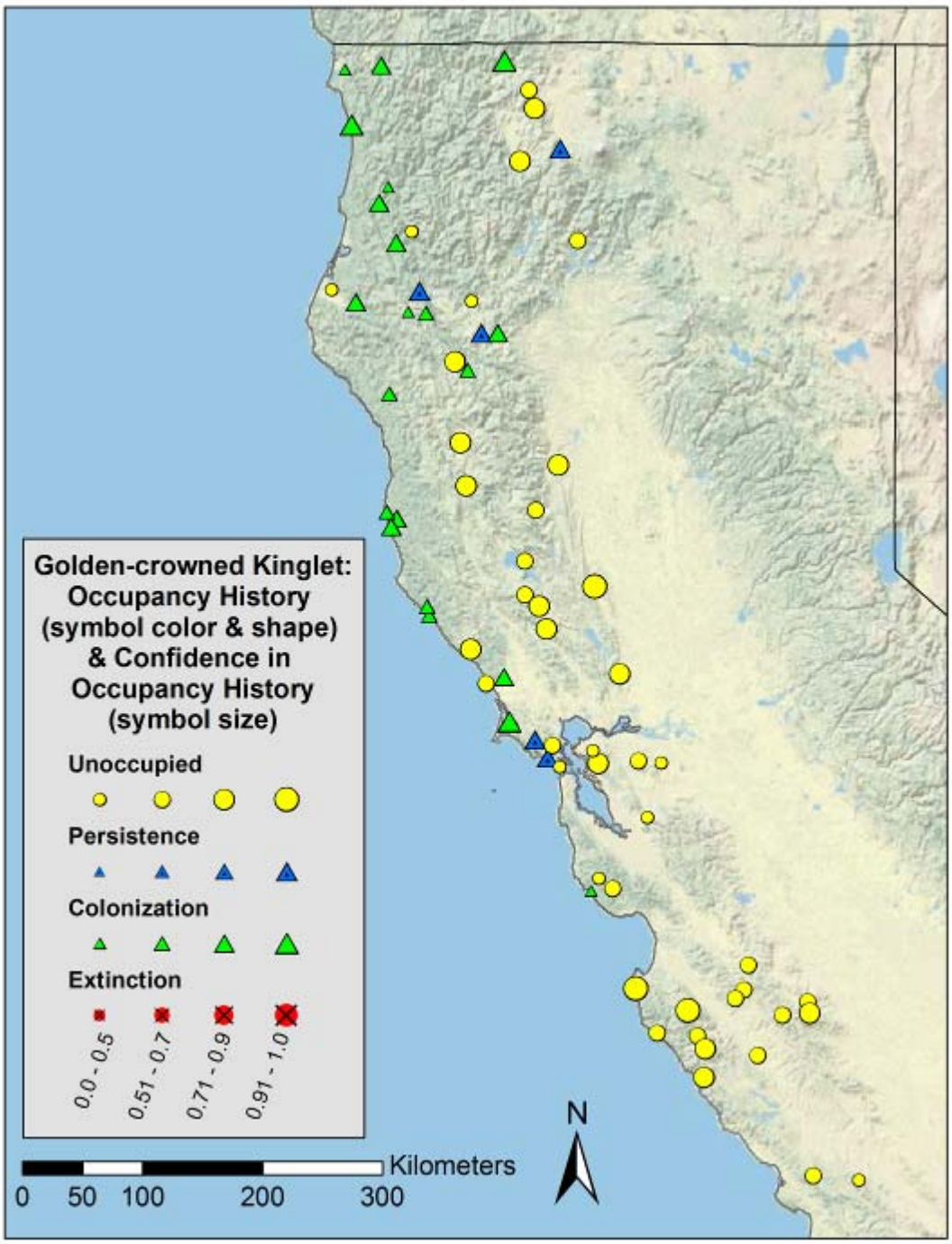

Brown Creeper:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

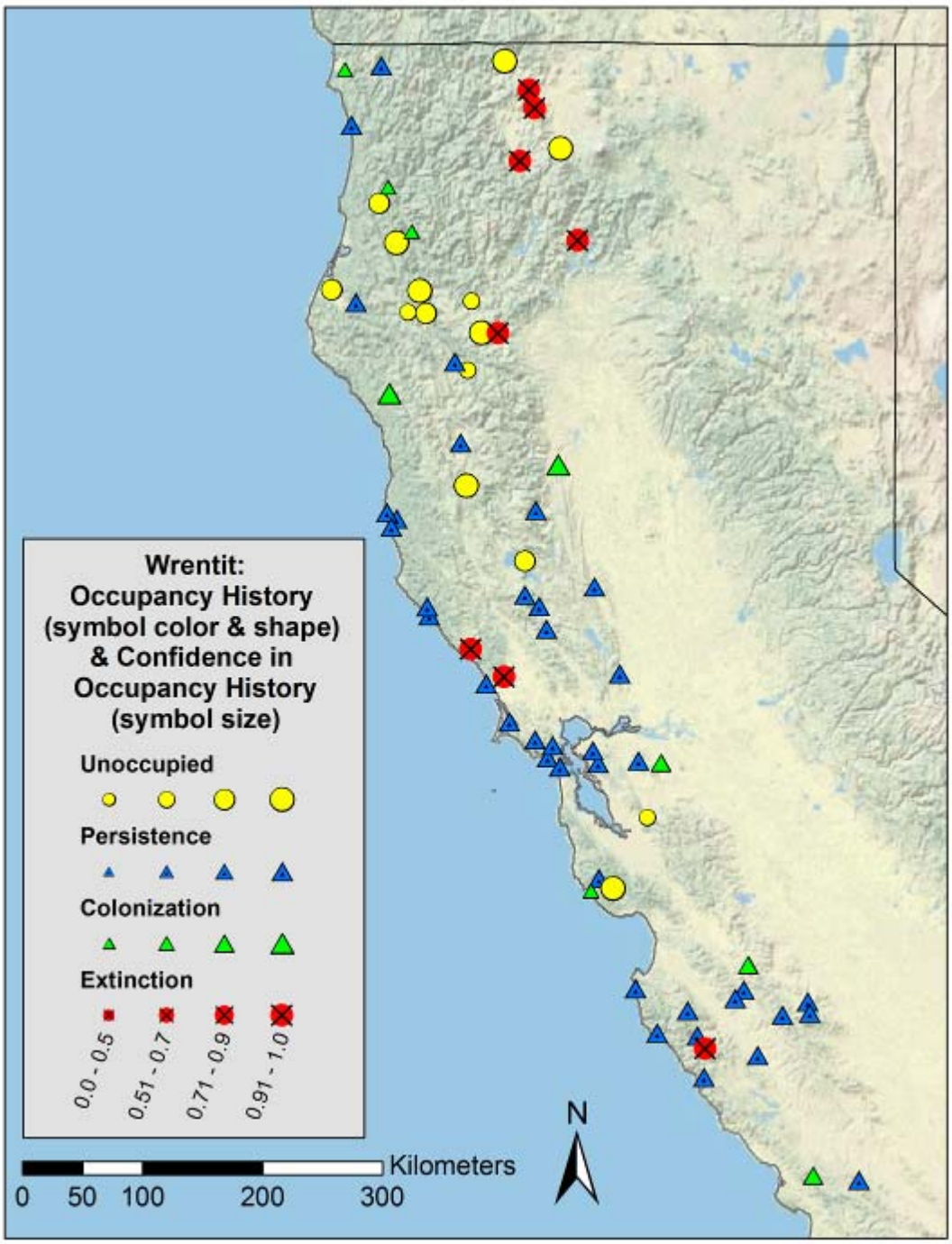

Bewick's Wren:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

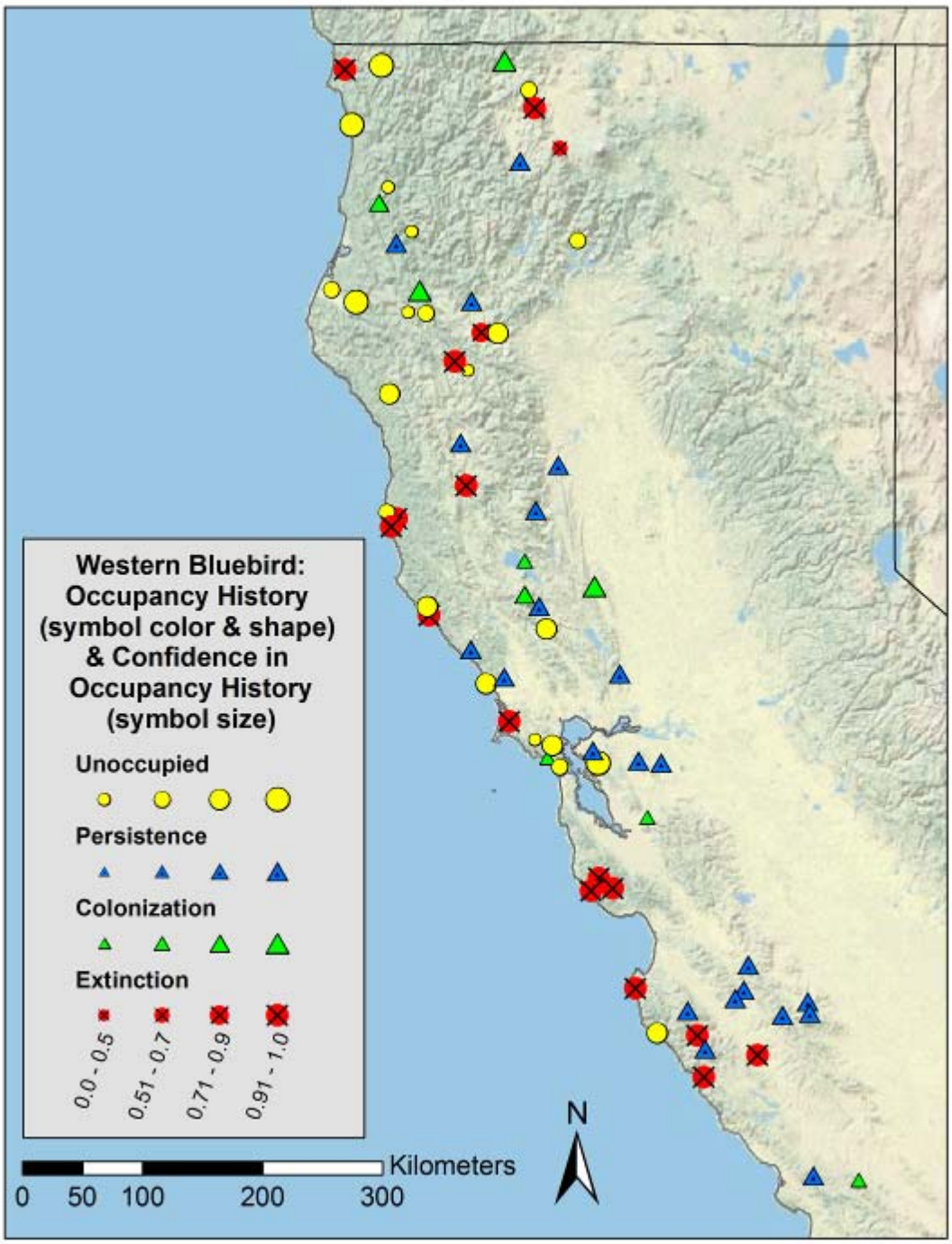

House Wren:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

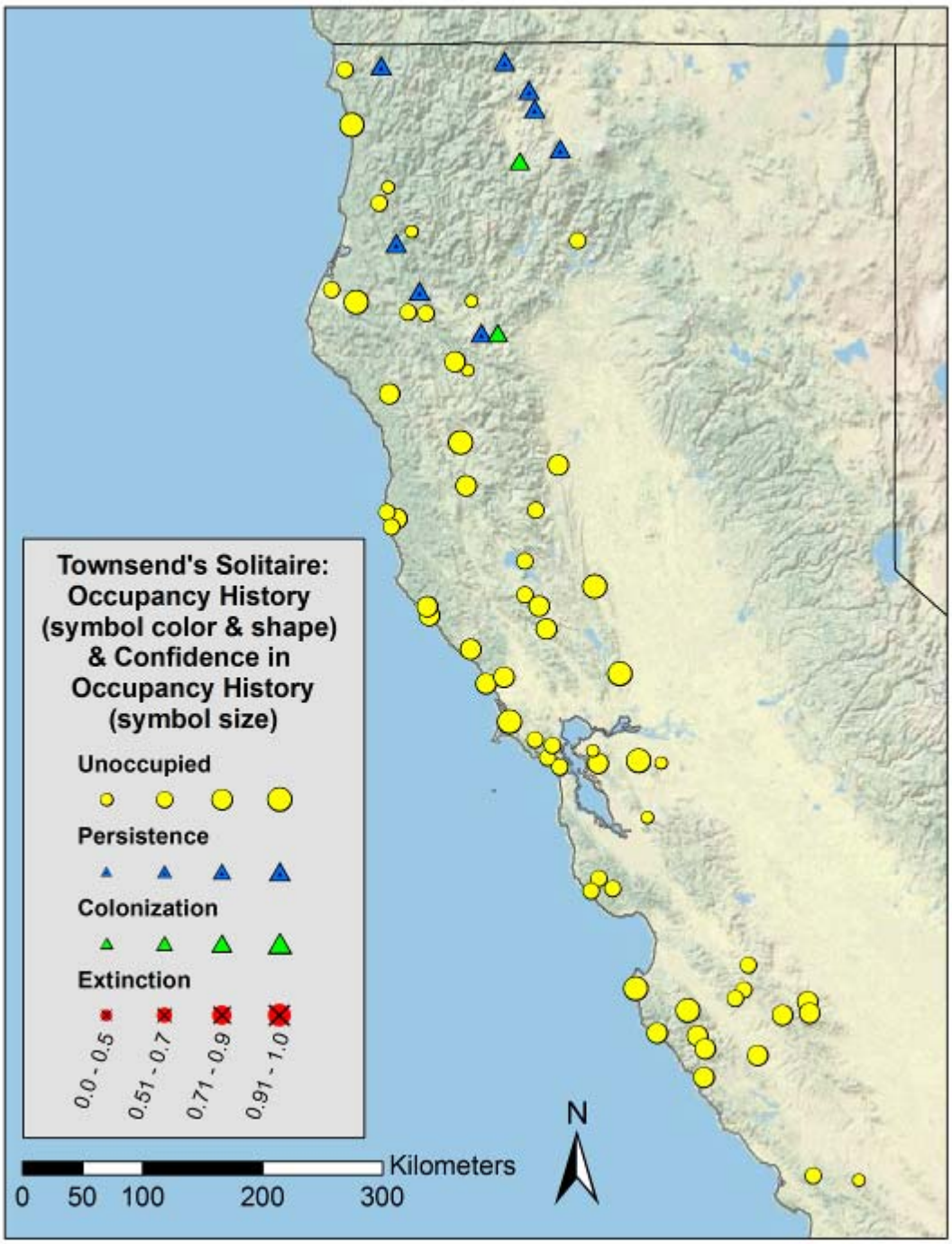

Winter Wren:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

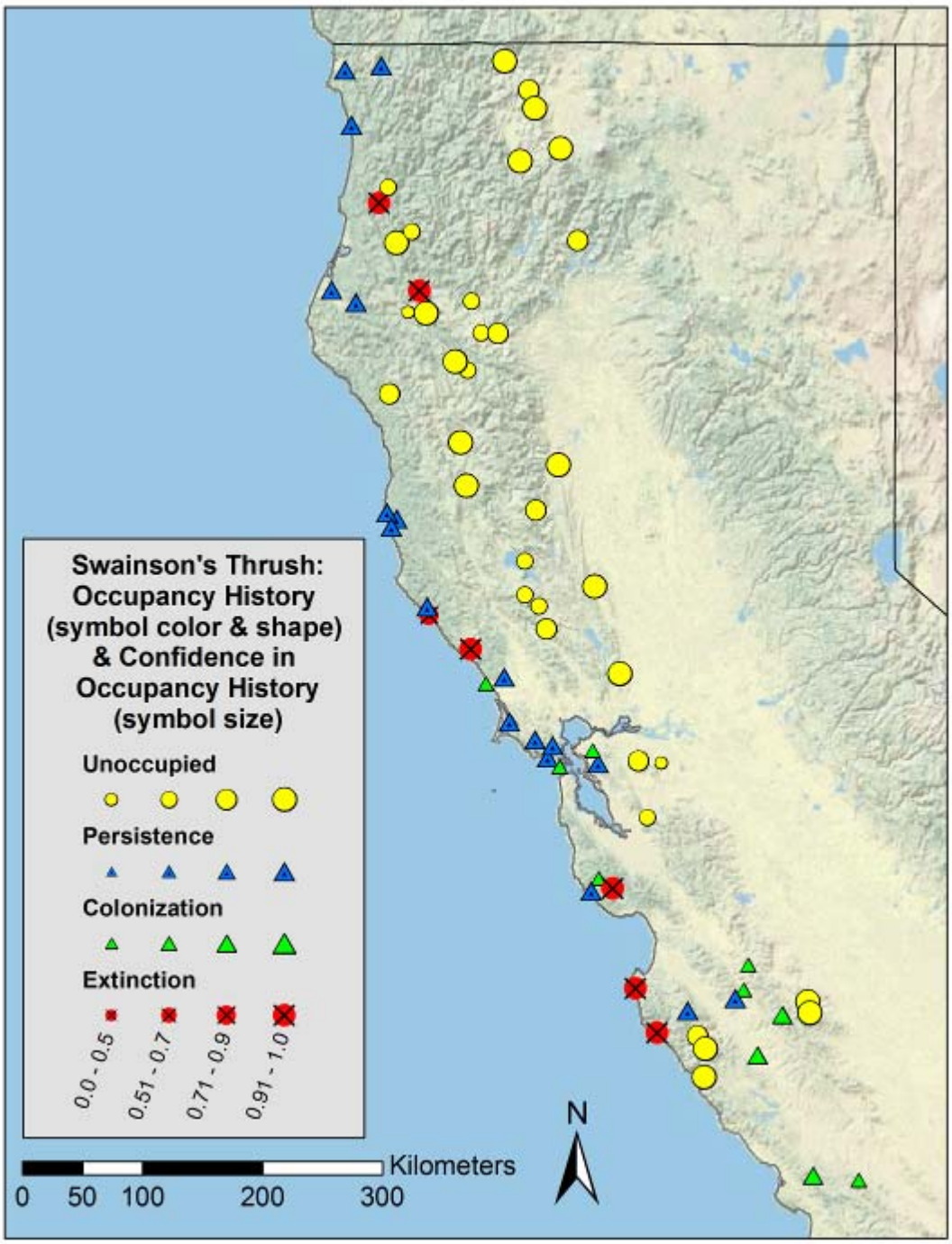

Blue-gray Gnatcatcher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

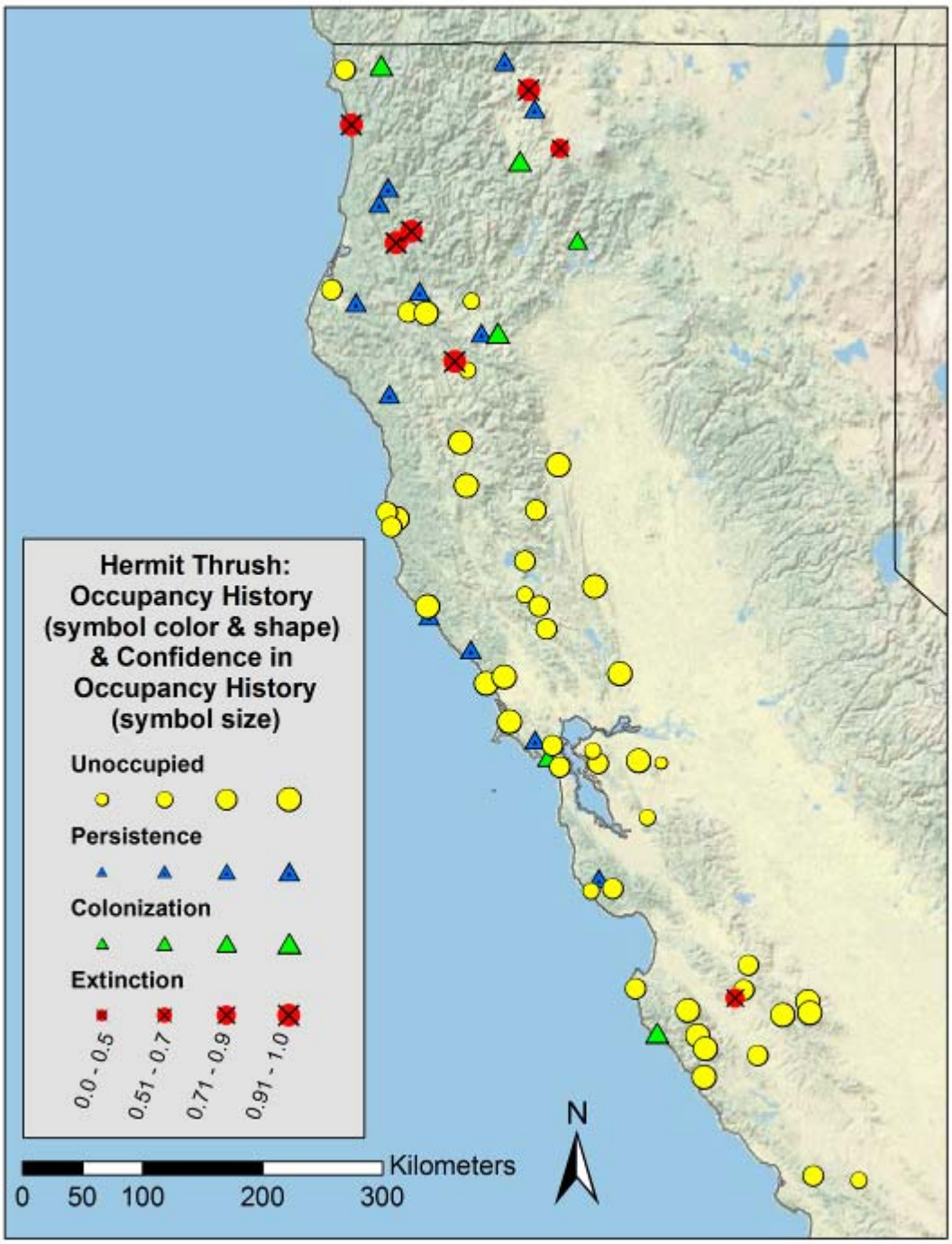

Golden-crowned Kinglet:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

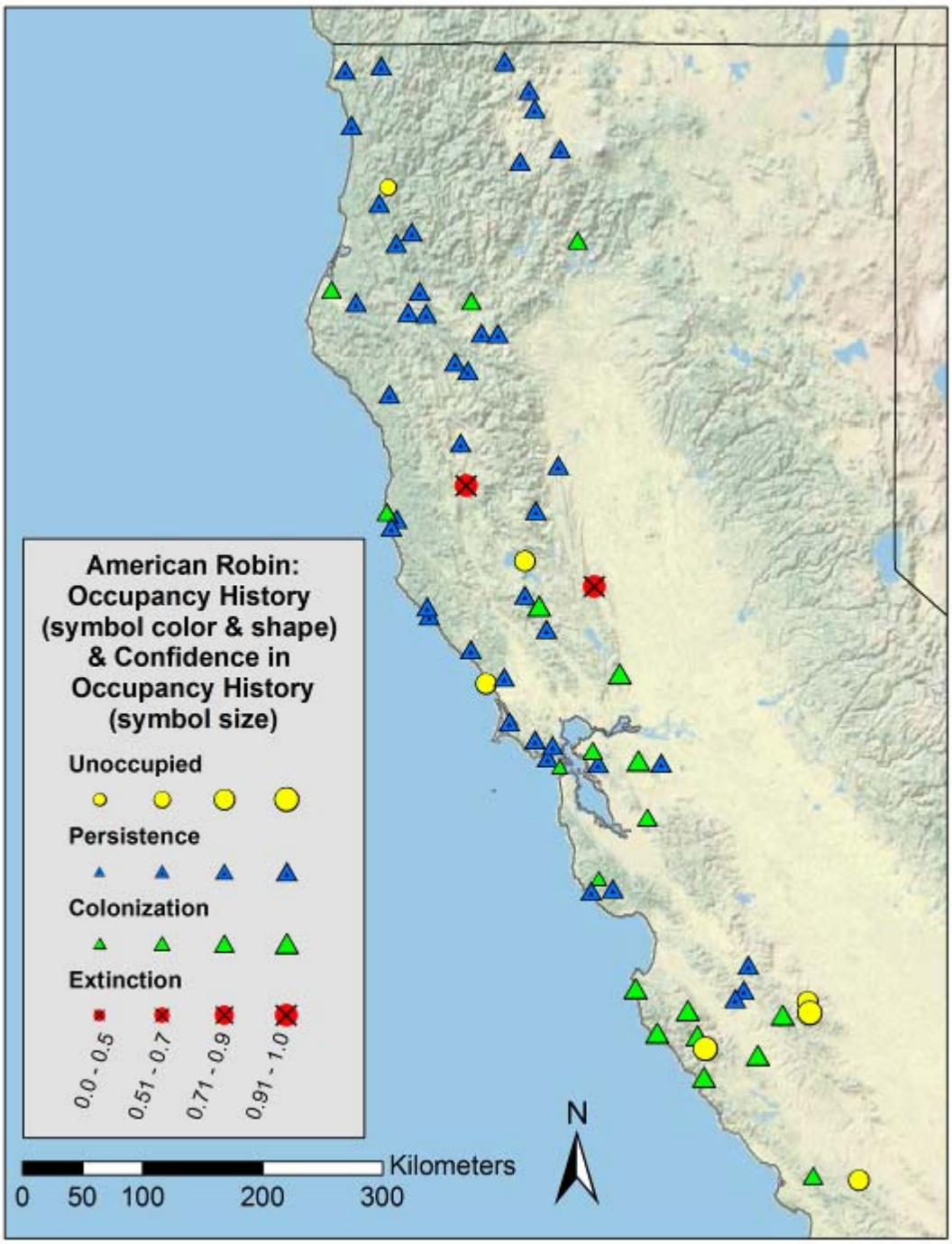

Wrentit:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

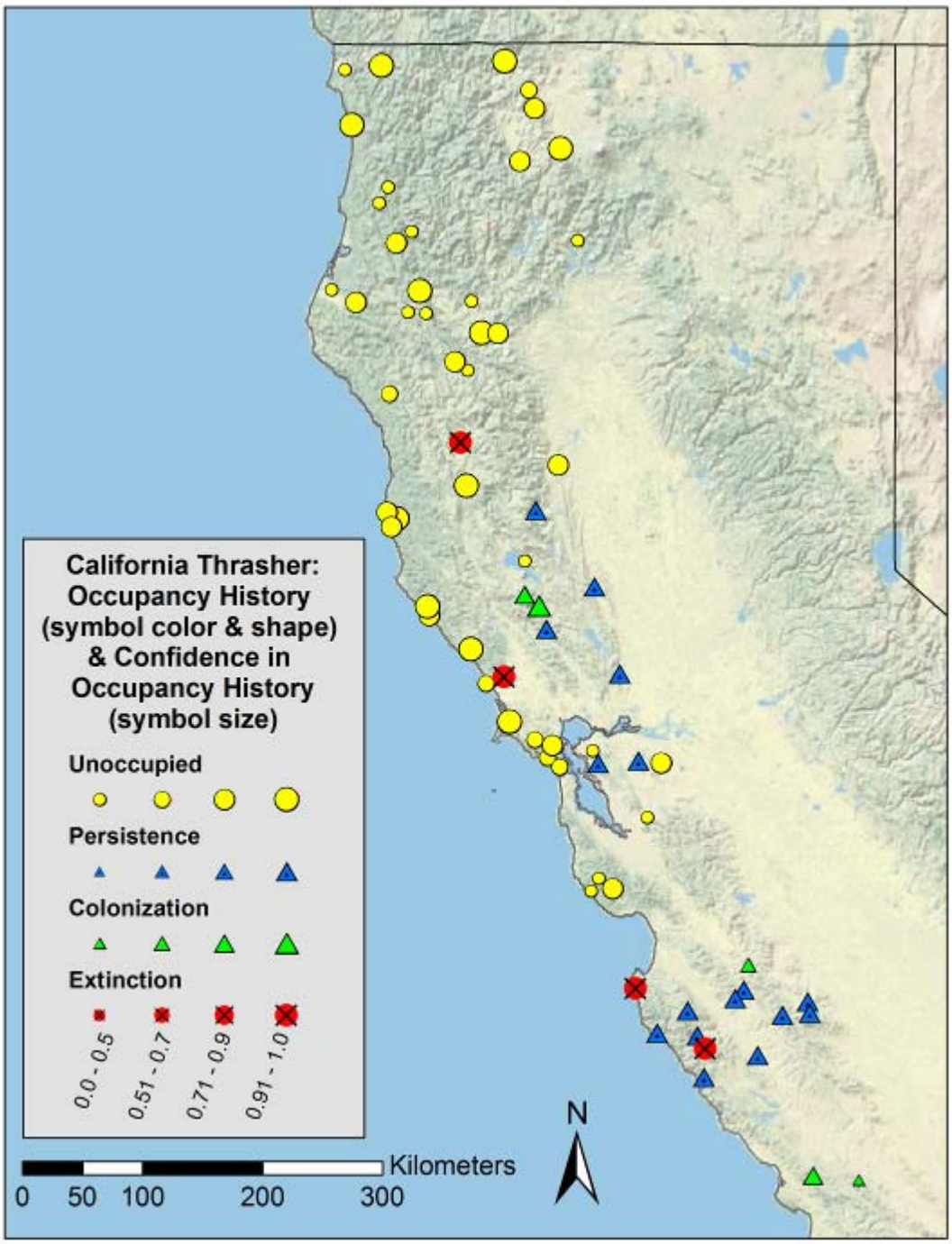

Western Bluebird:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

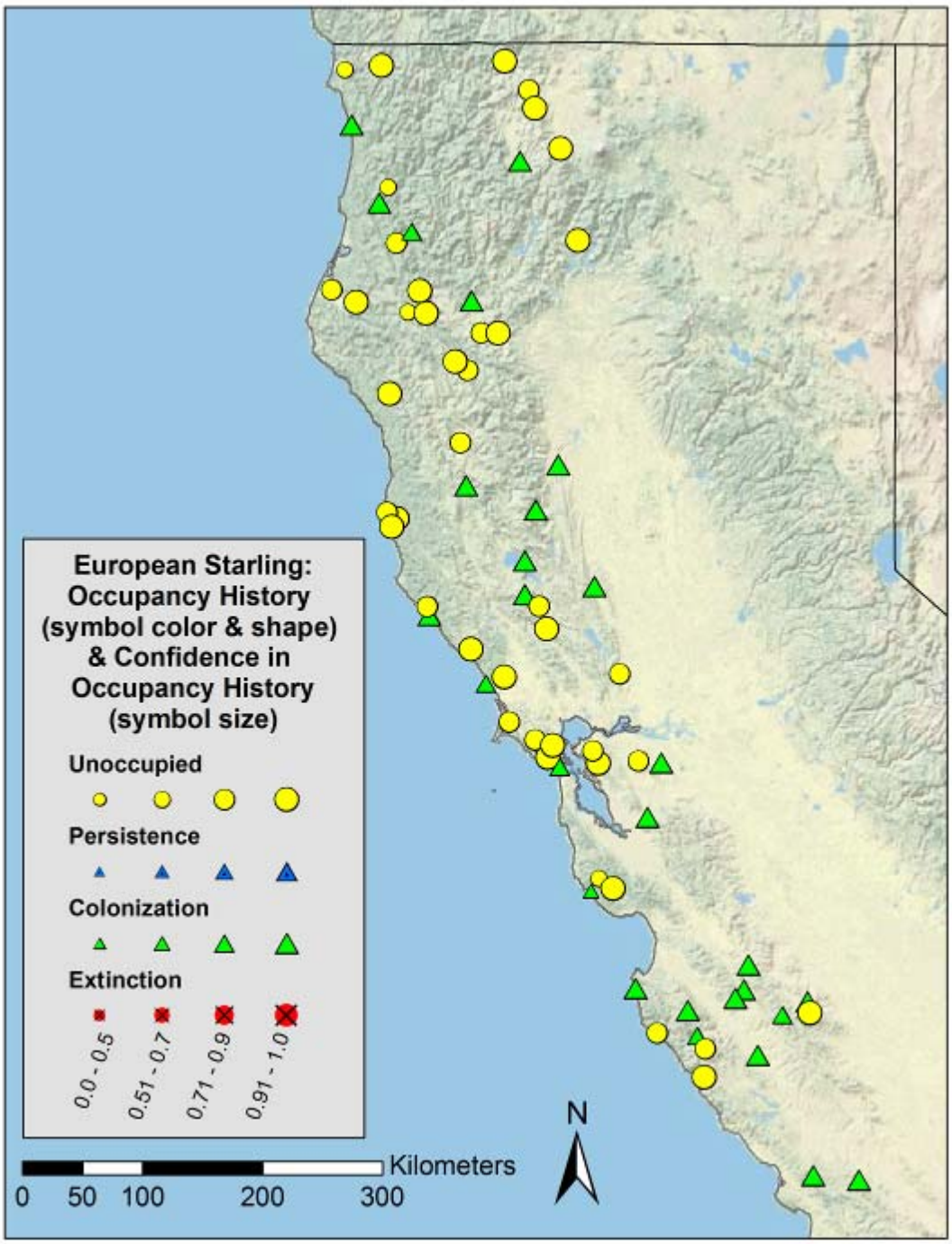

Townsend's Solitaire:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

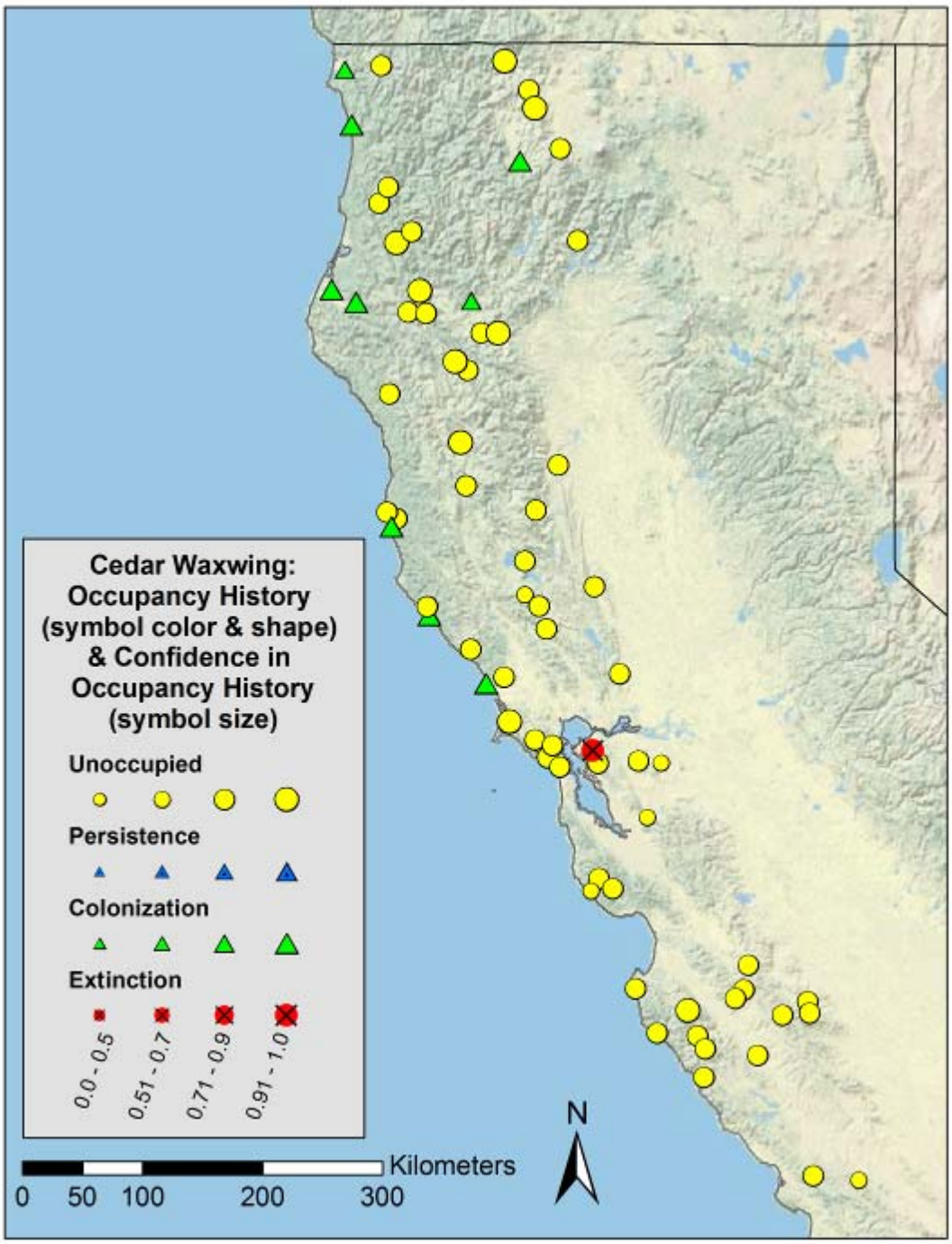

Swainson's Thrush:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

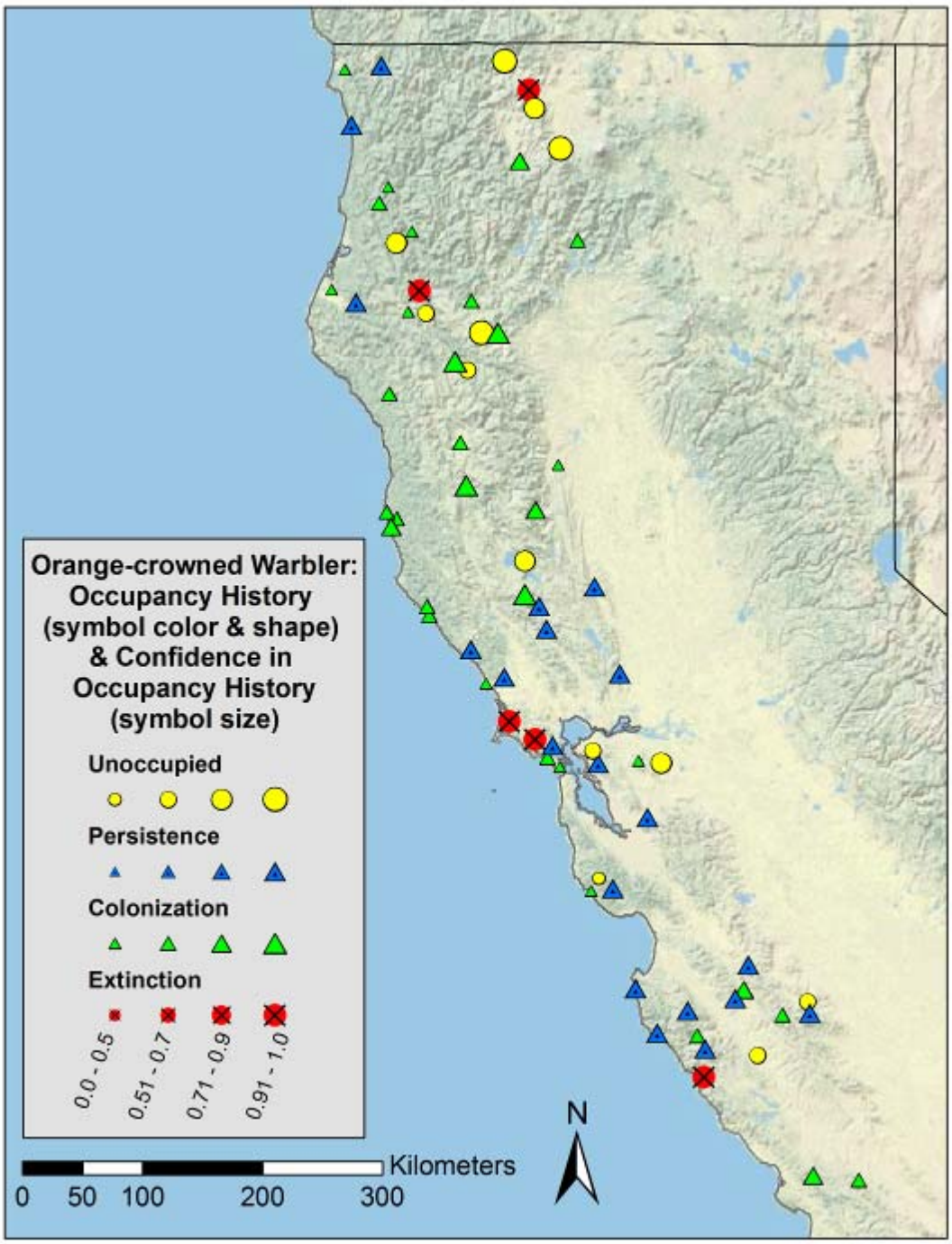

Hermit Thrush:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

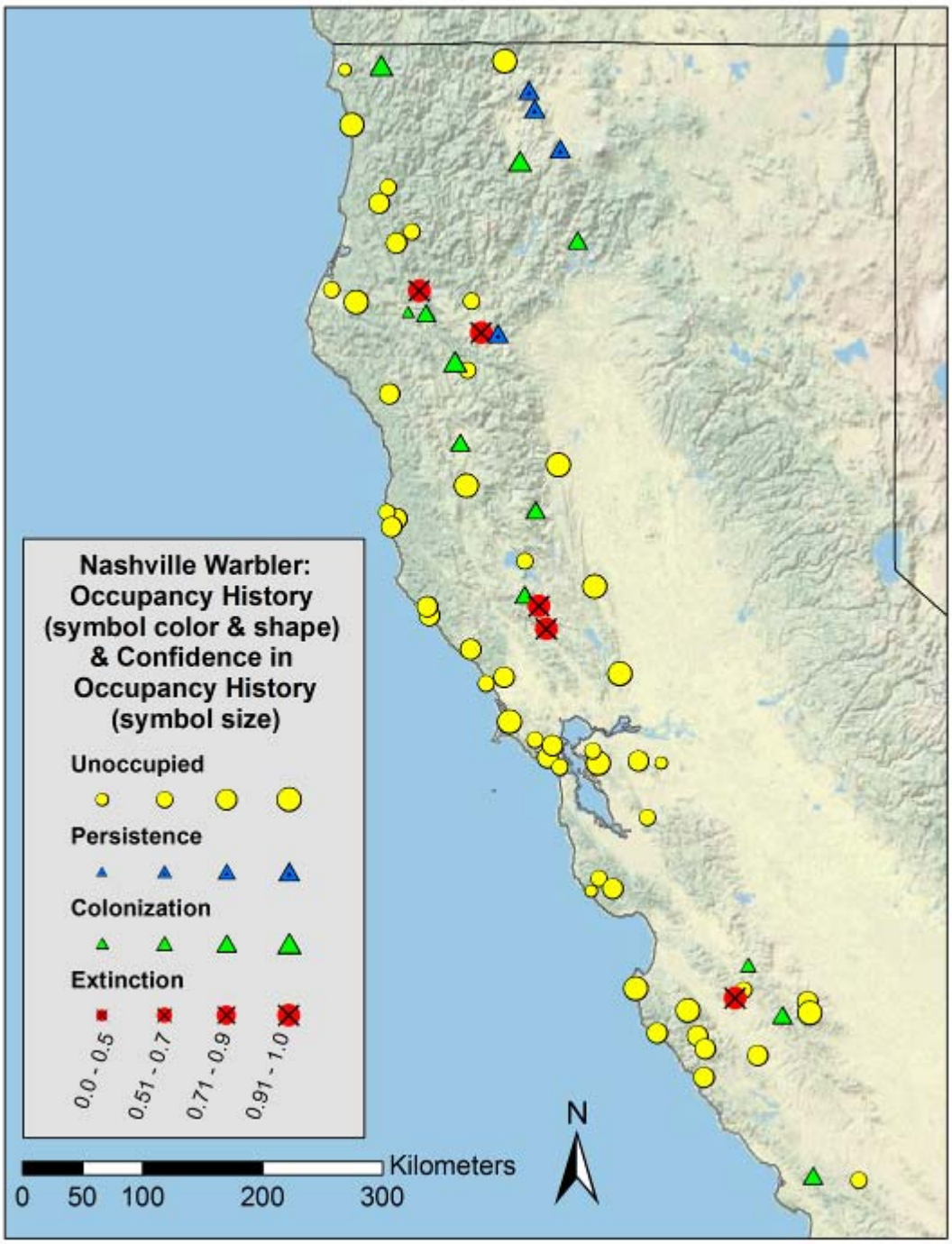

American Robin:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

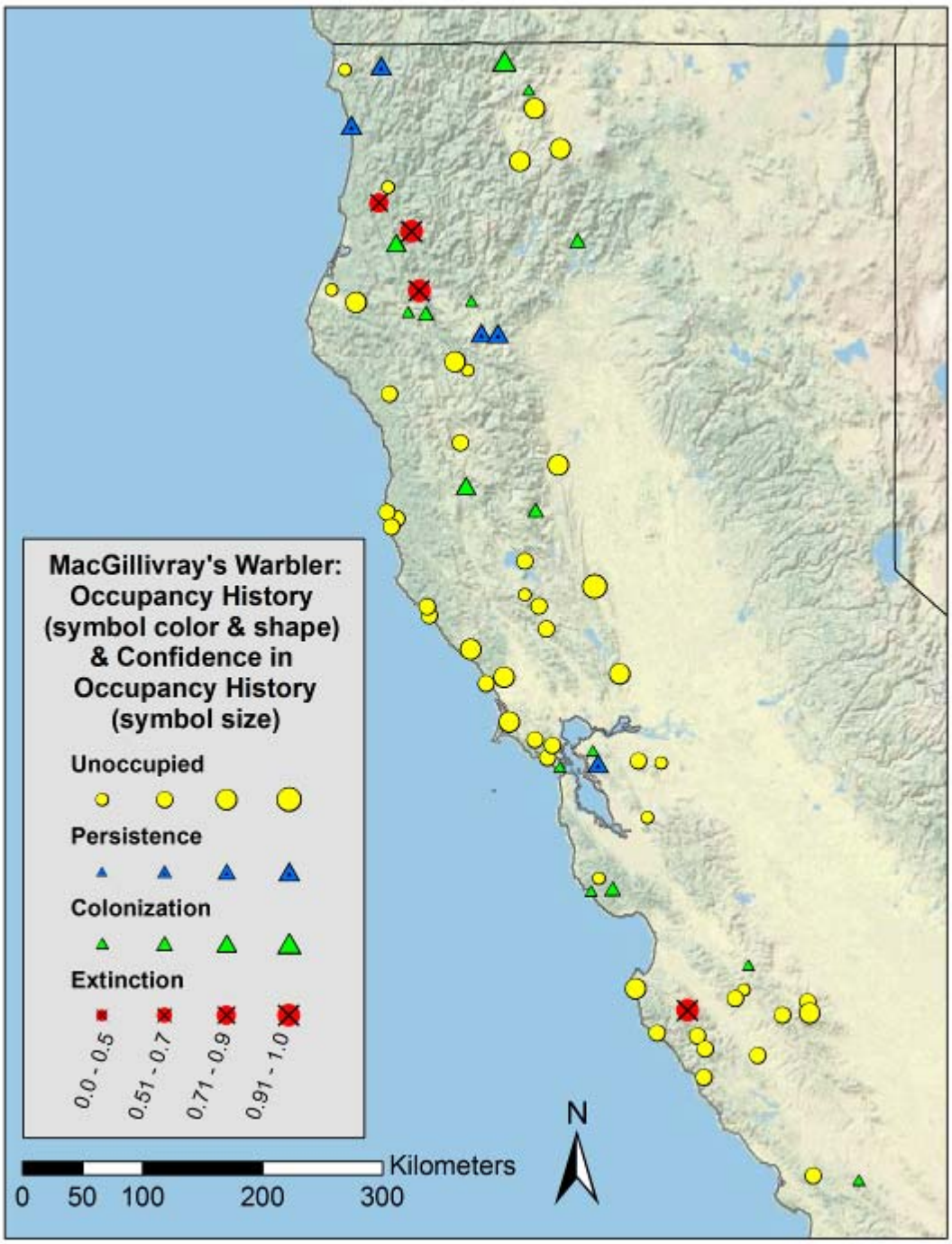

California Thrasher:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

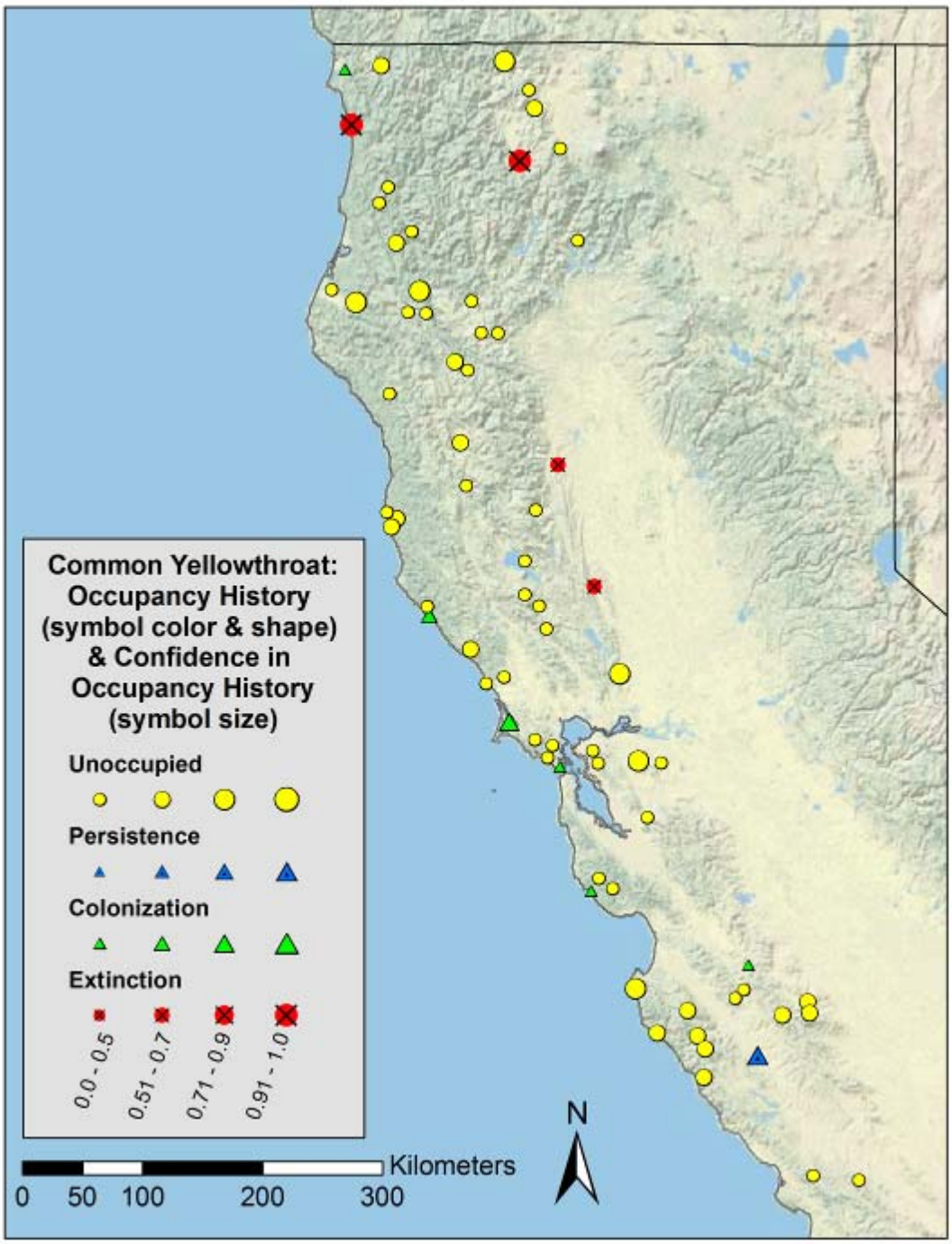

European Starling:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

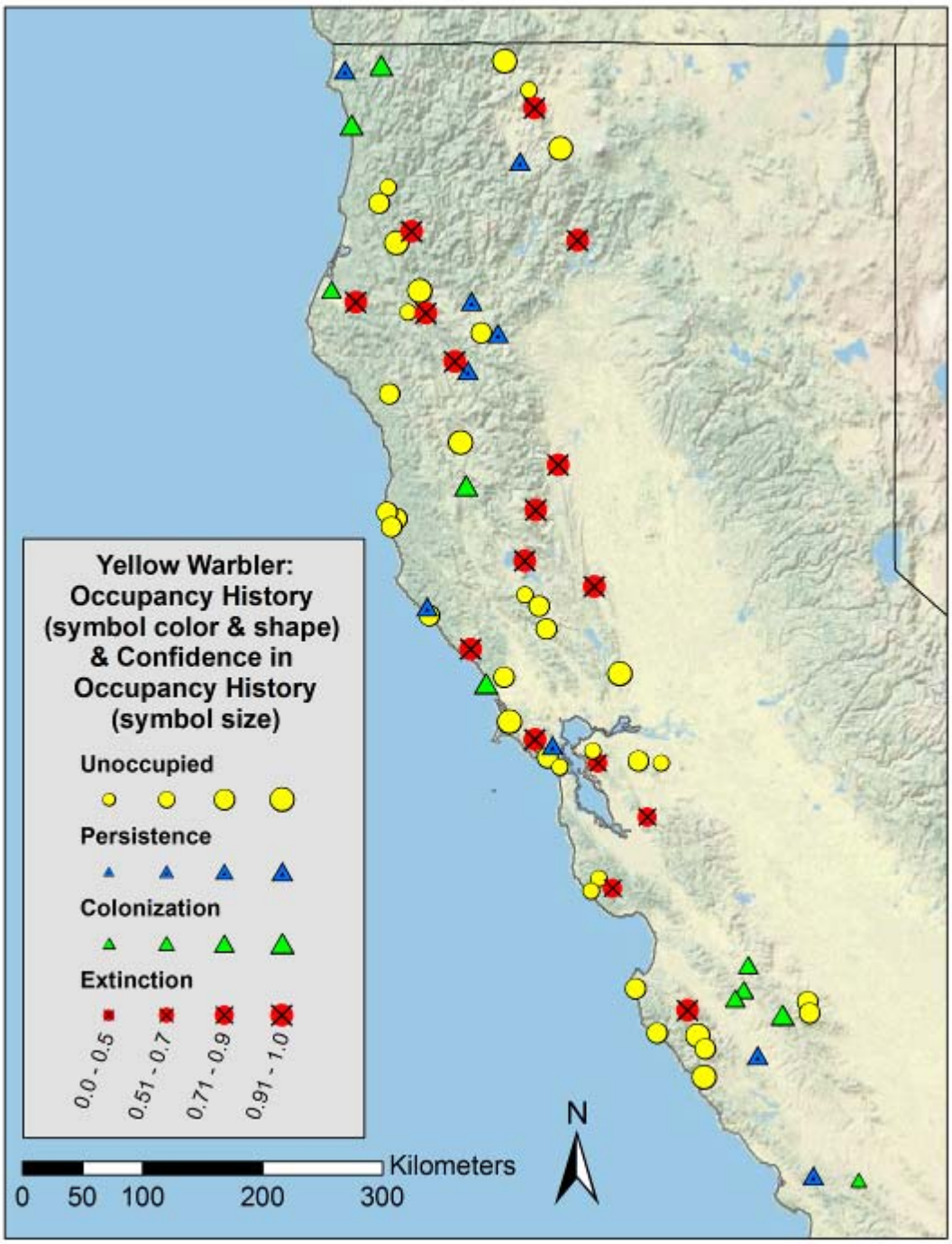

Cedar Waxwing:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

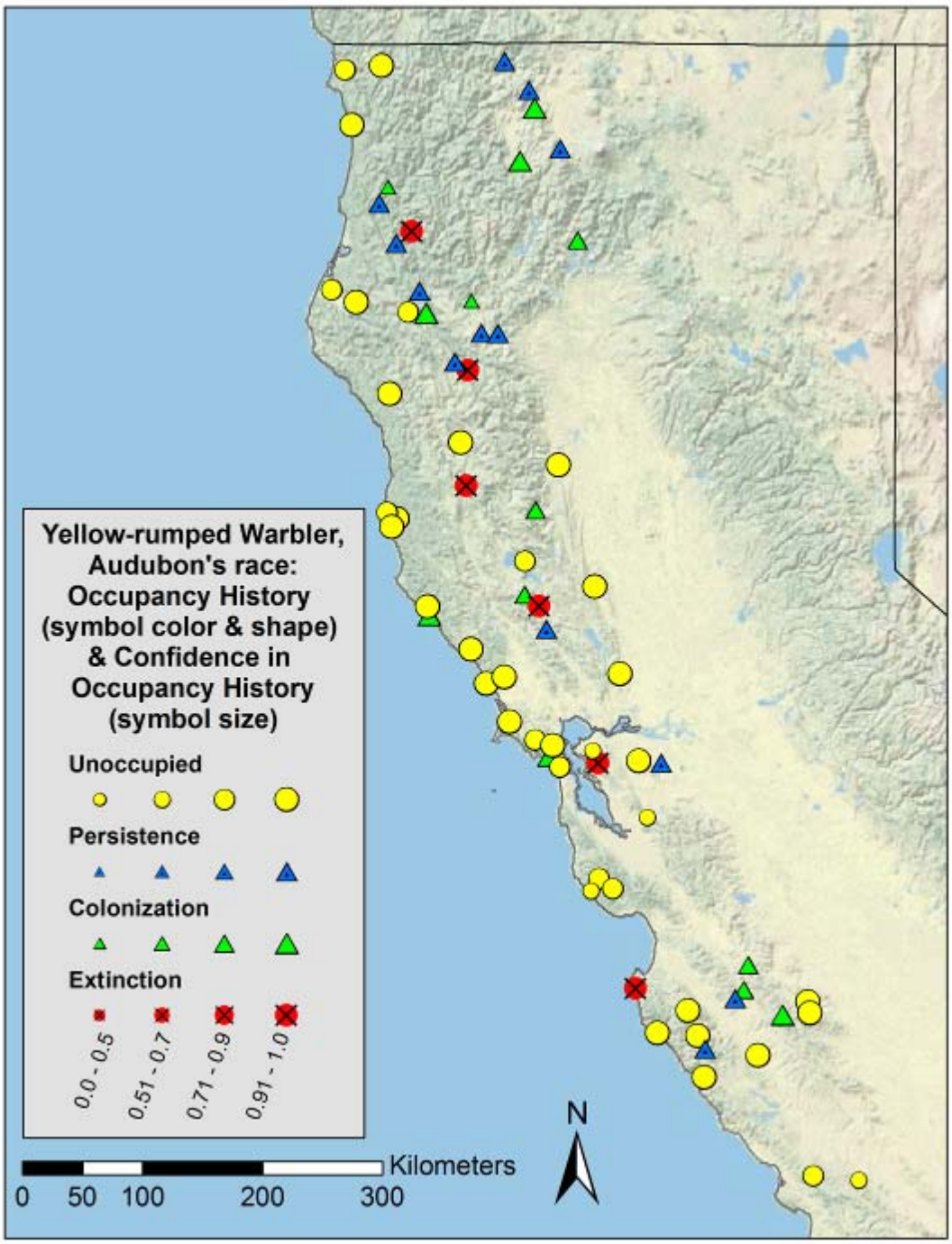

Orange-crowned Warbler:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

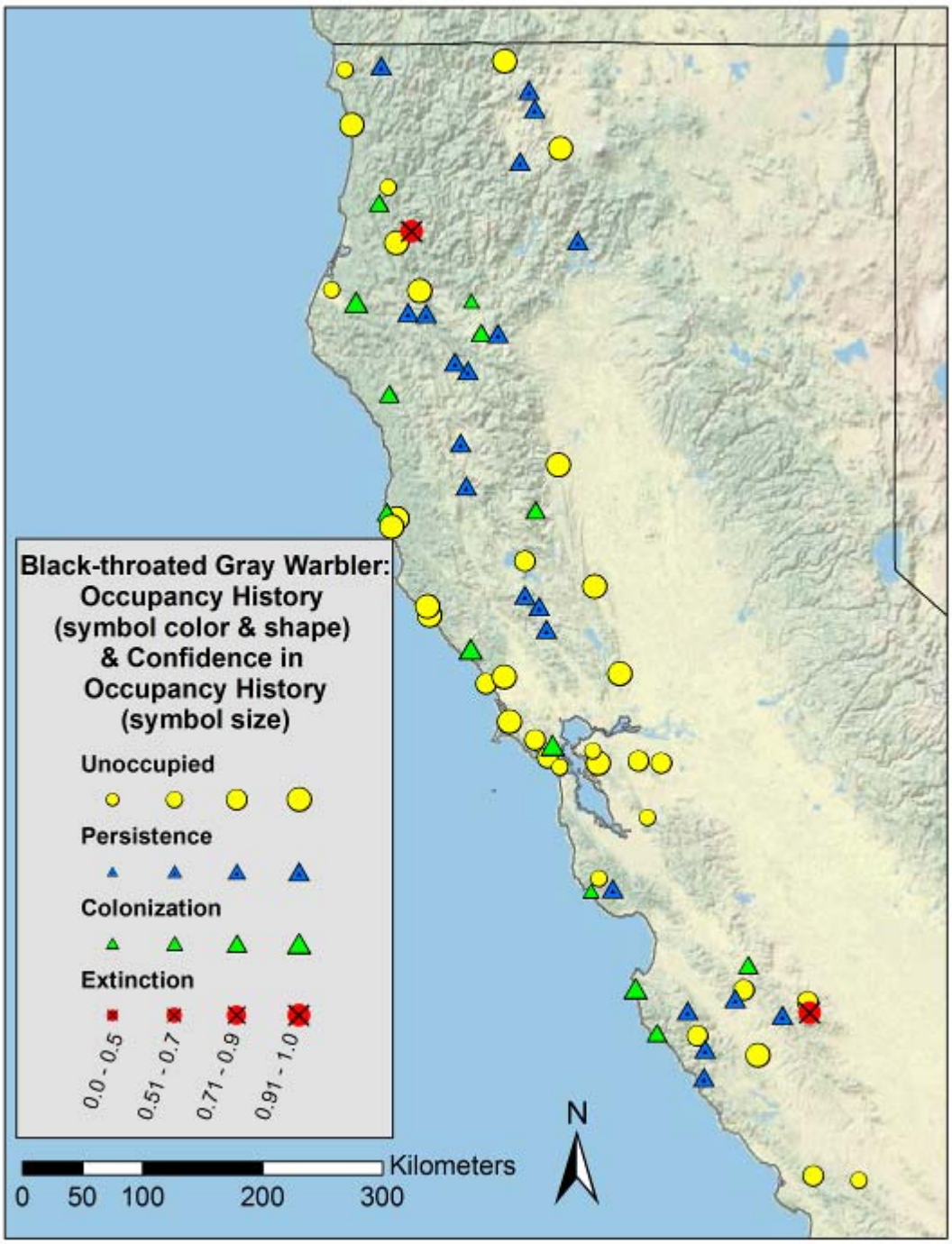

Nashville Warbler:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

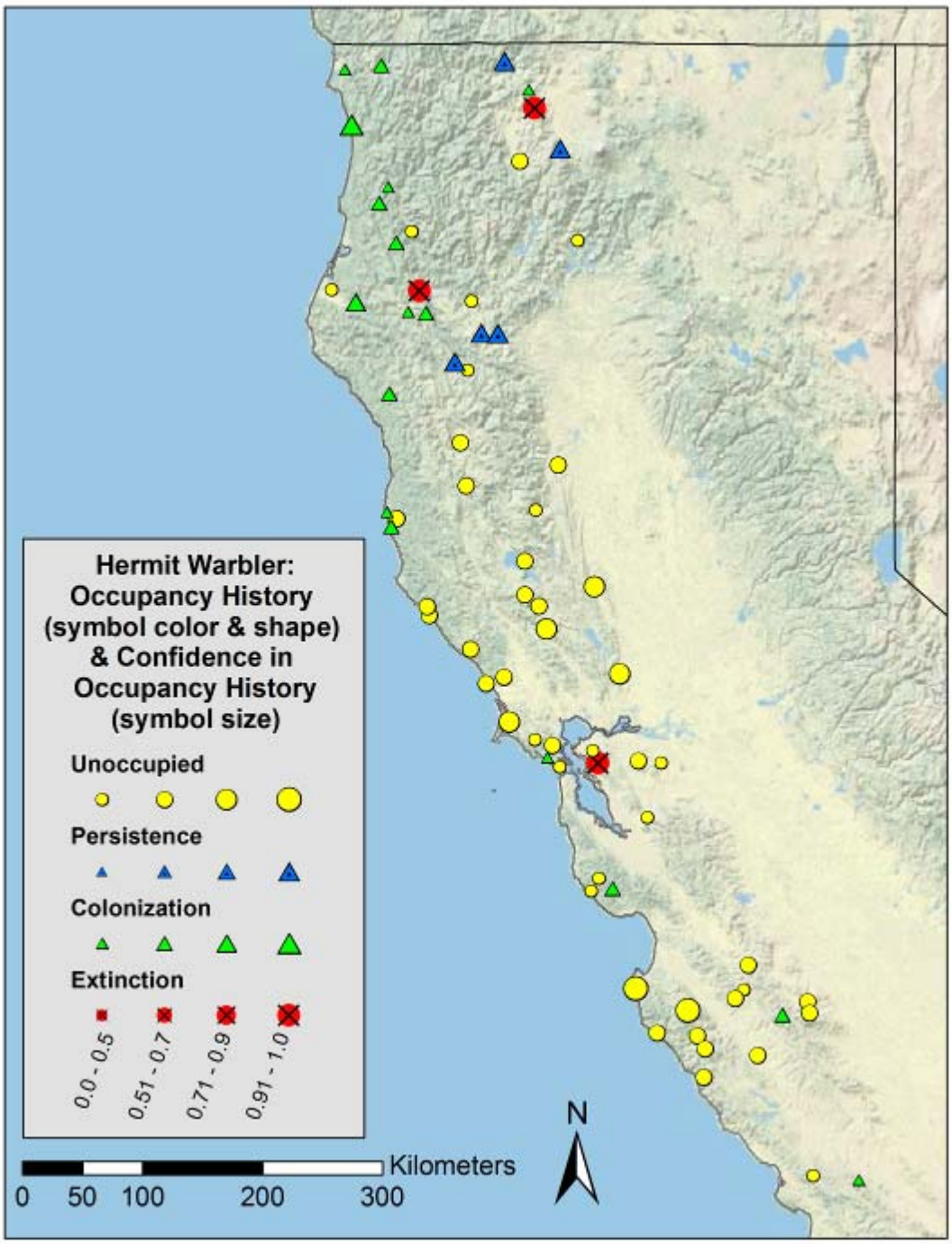

MacGillivray's Warbler:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

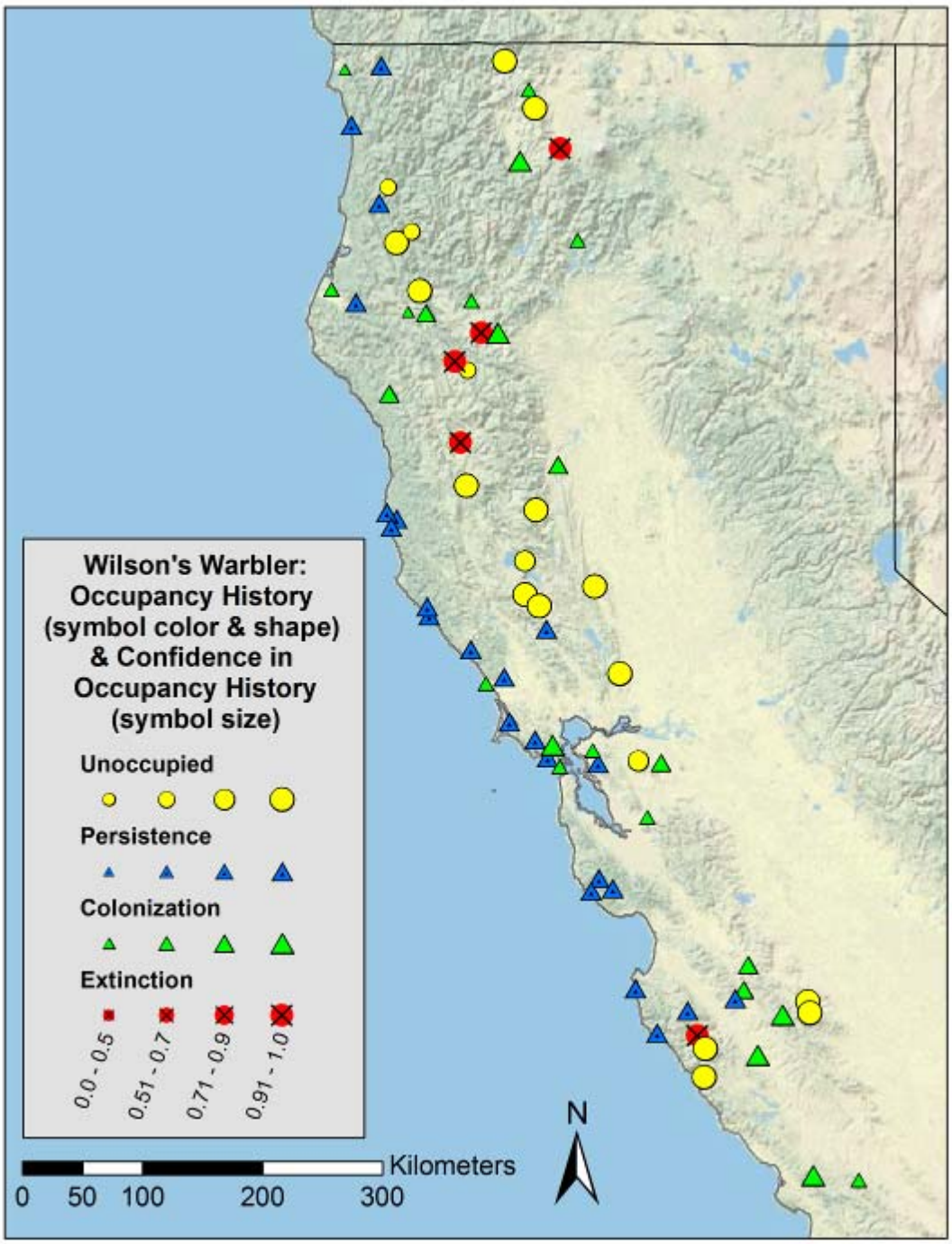

Common Yellowthroat:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

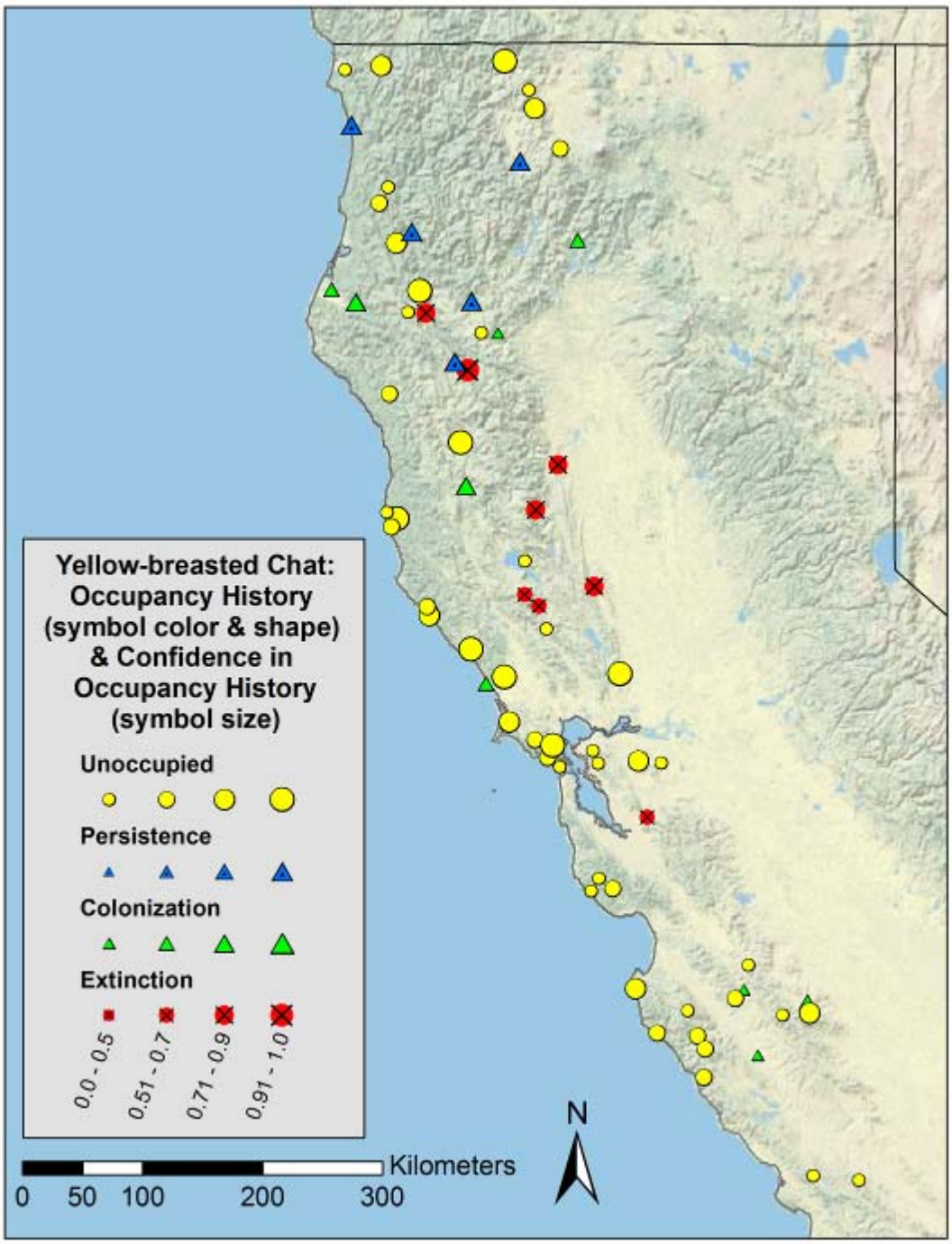

Yellow Warbler:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

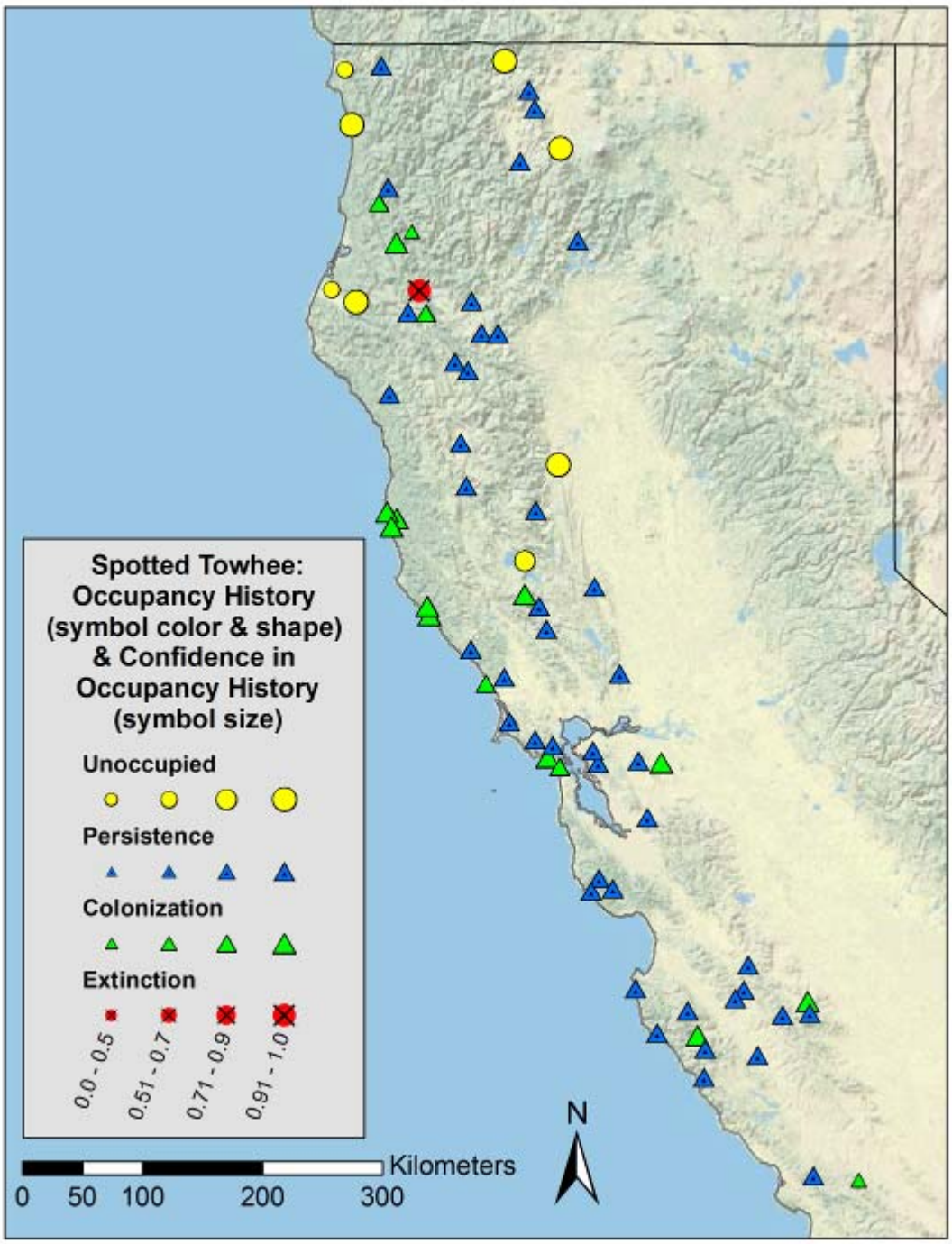

Yellow-rumped Warbler, Audubon's race: Occupancy History (symbol color & shape) & Confidence in Occupancy History (symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

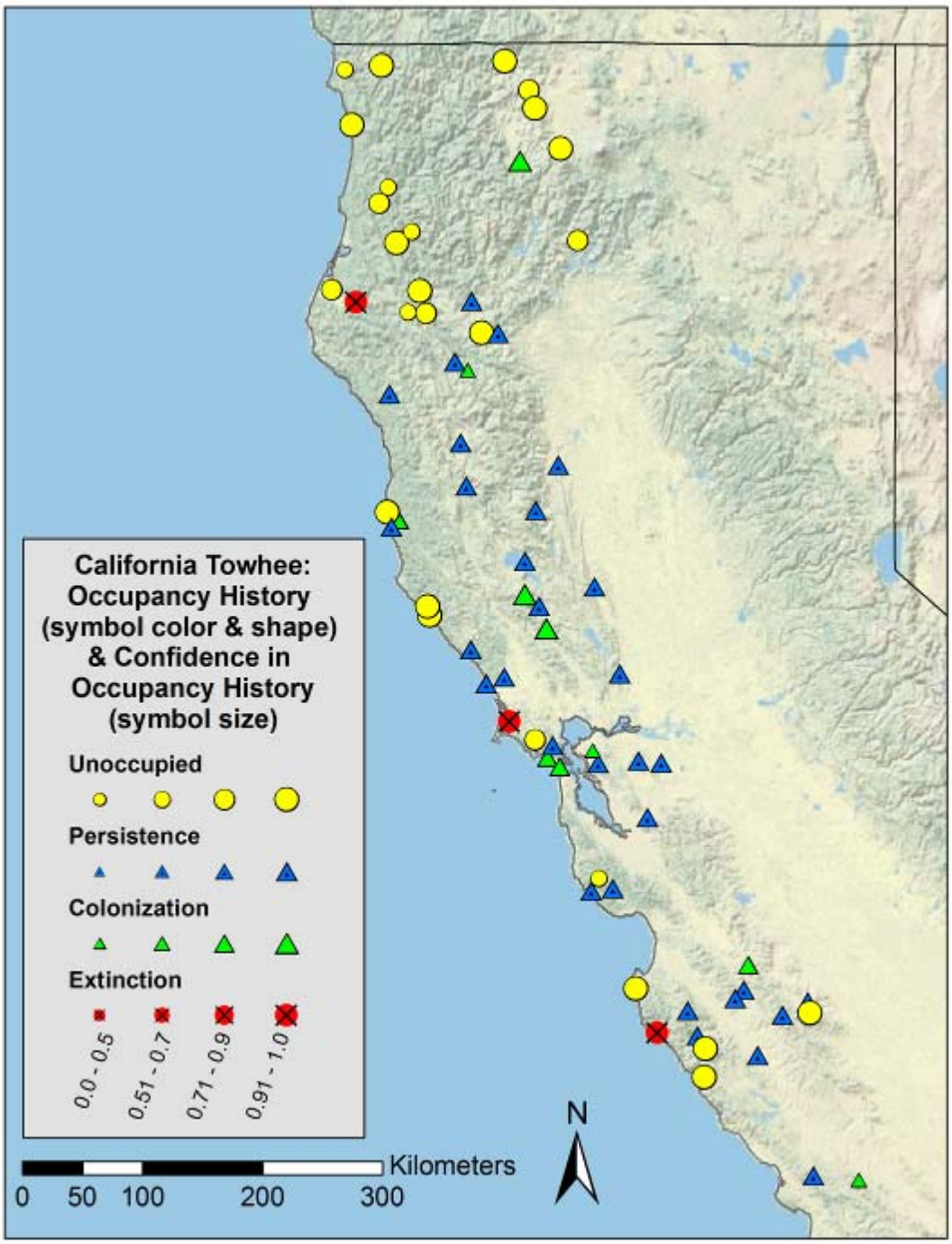

Black-throated Gray Warbler:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

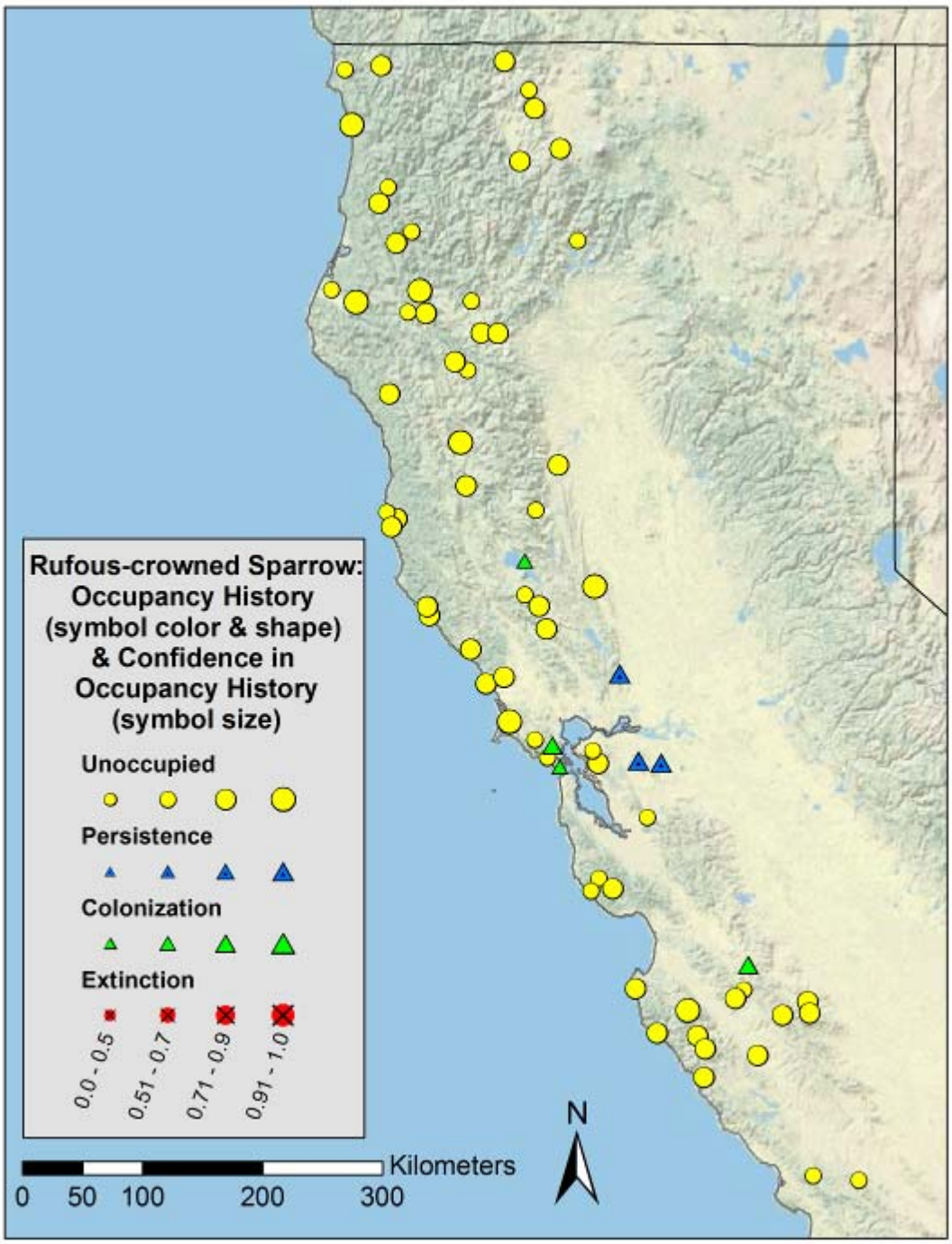

Hermit Warbler:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

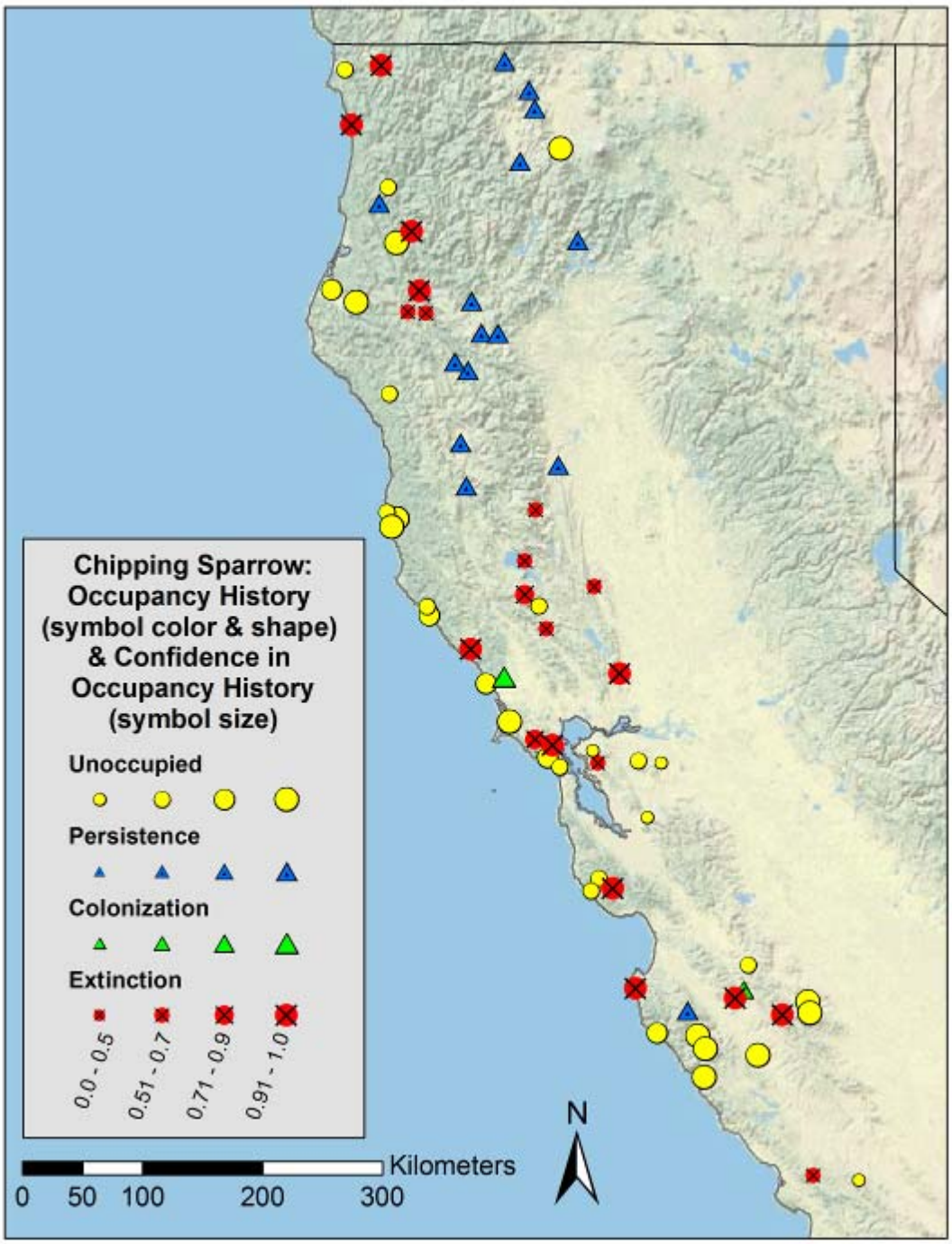

Wilson's Warbler:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

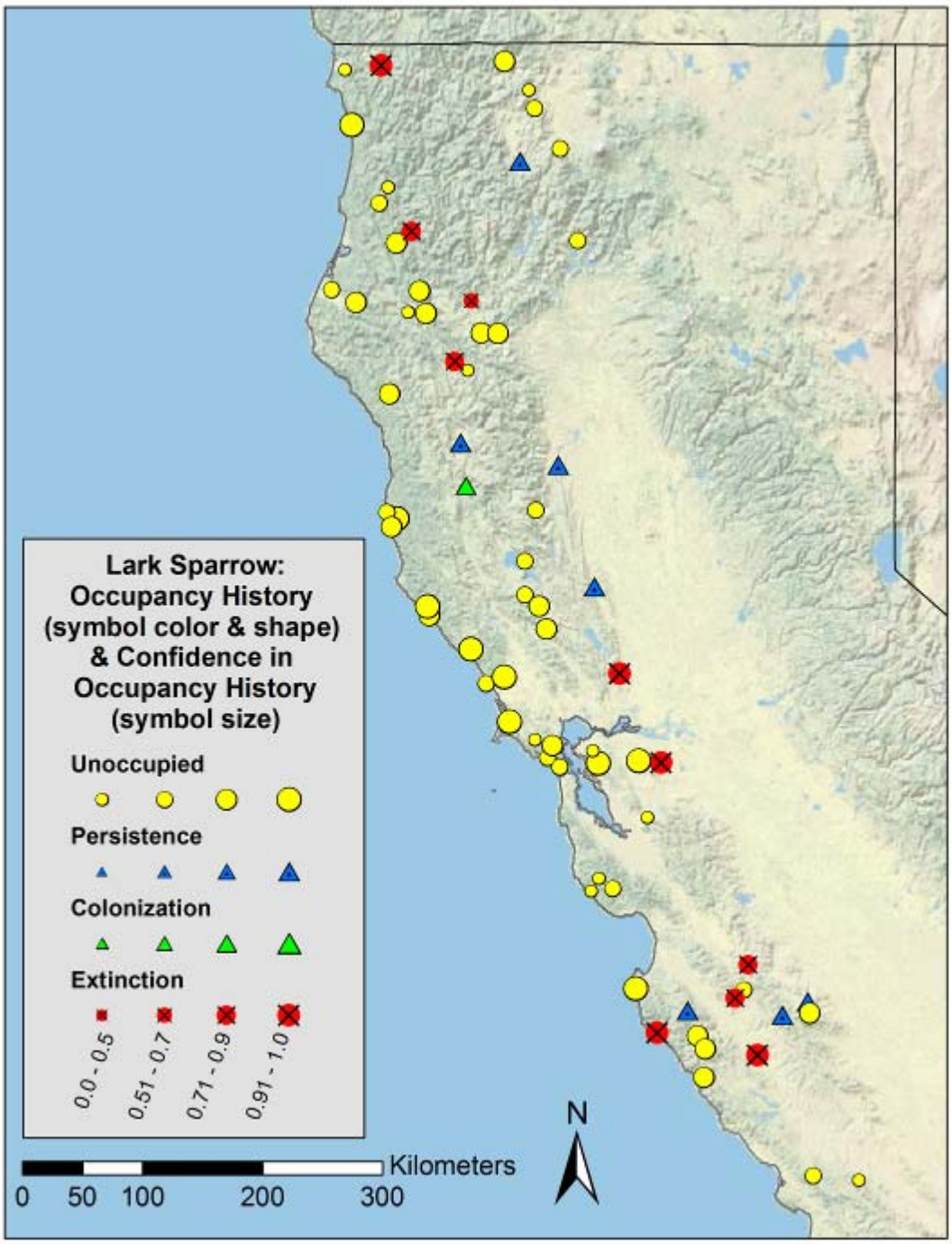

Yellow-breasted Chat:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

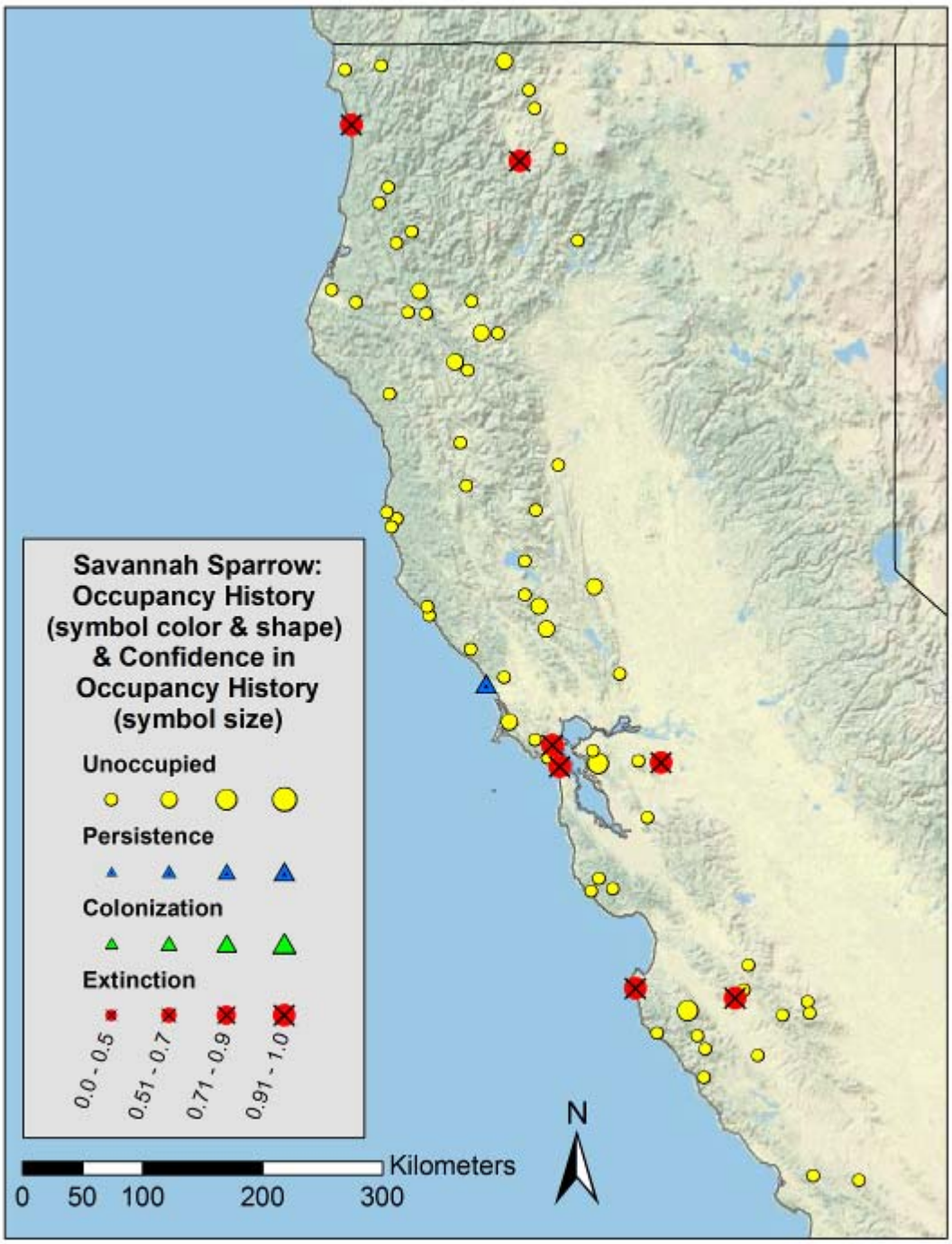

Spotted Towhee:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

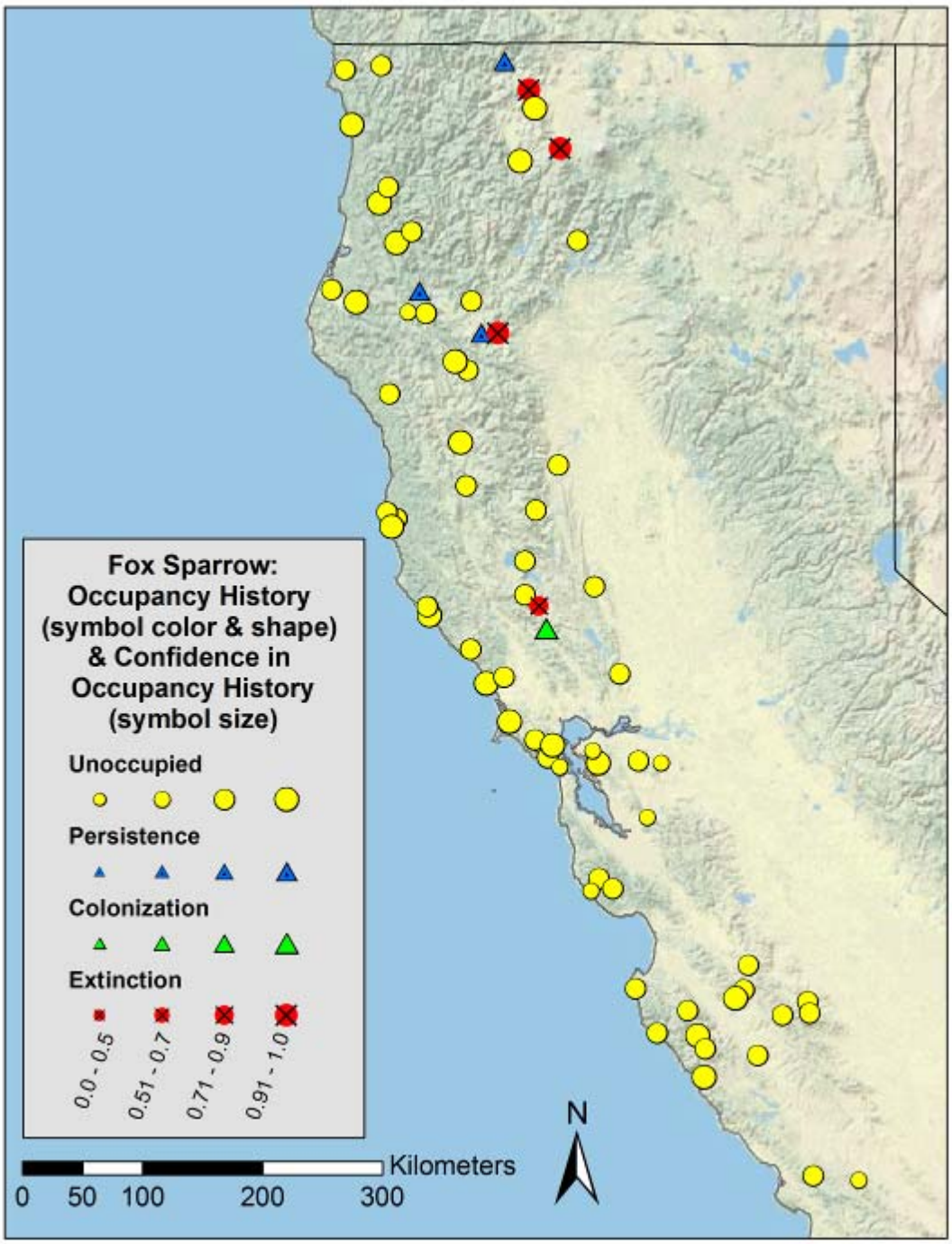

California Towhee:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0
50
100
200
300
N

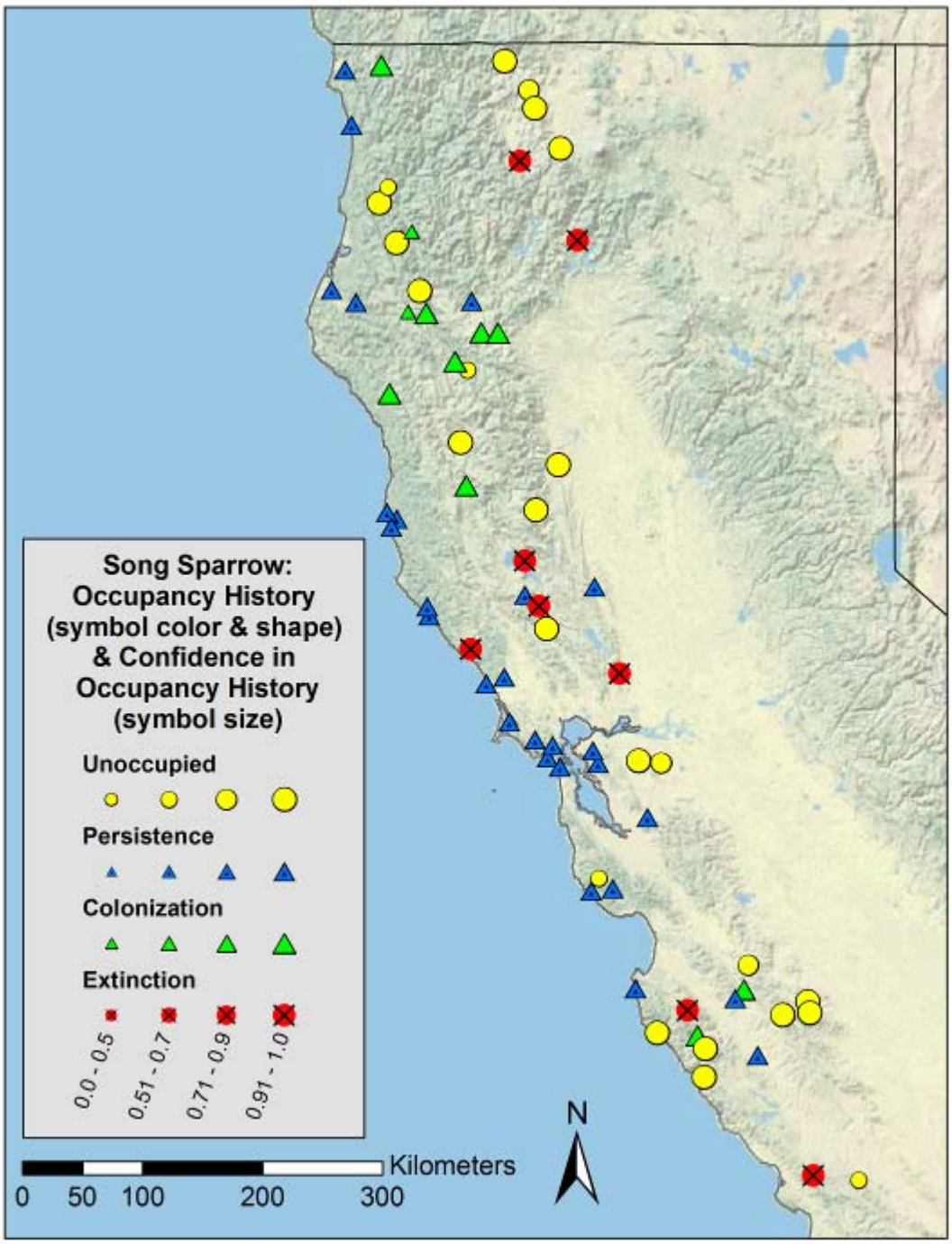

Rufous-crowned Sparrow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

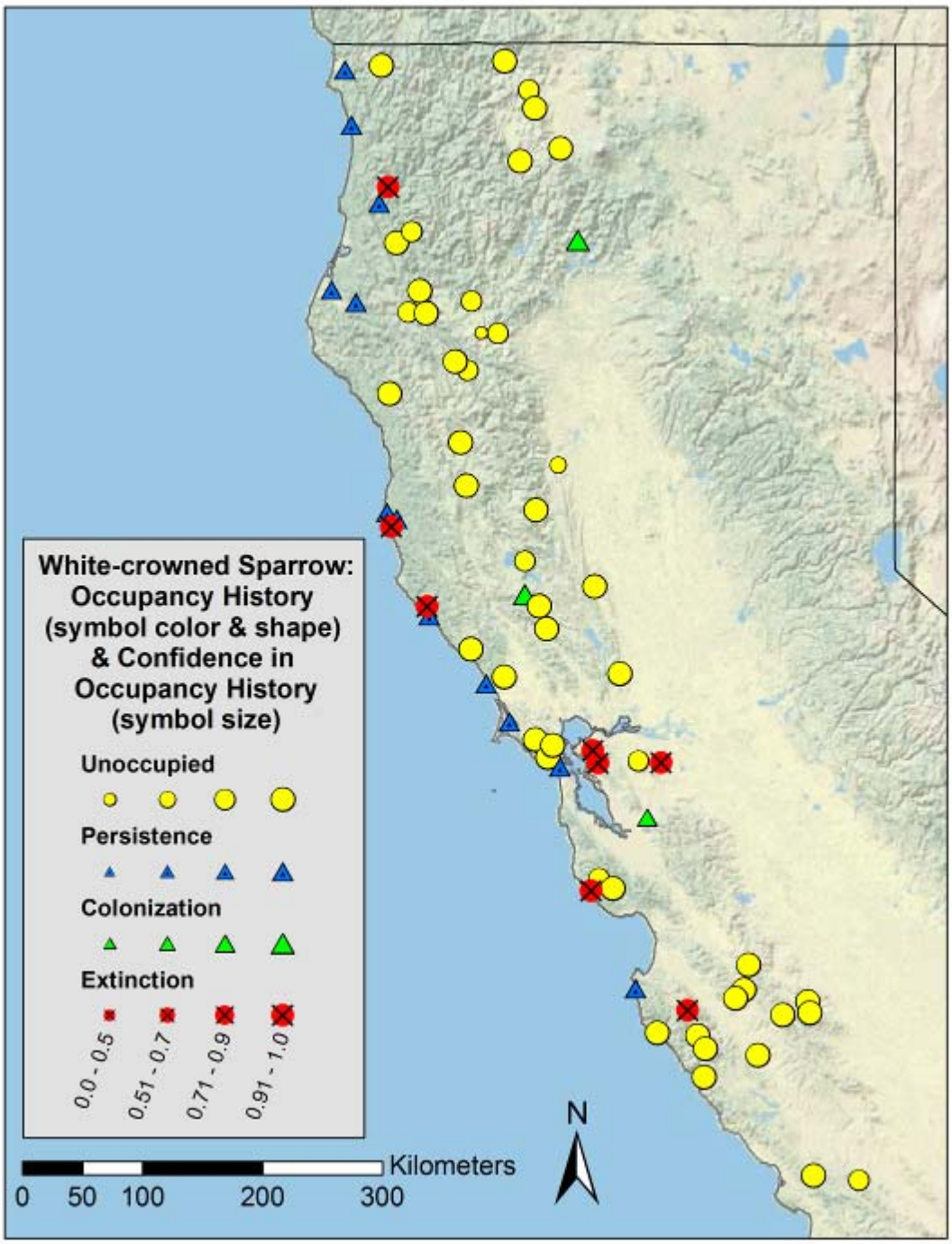

Chipping Sparrow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

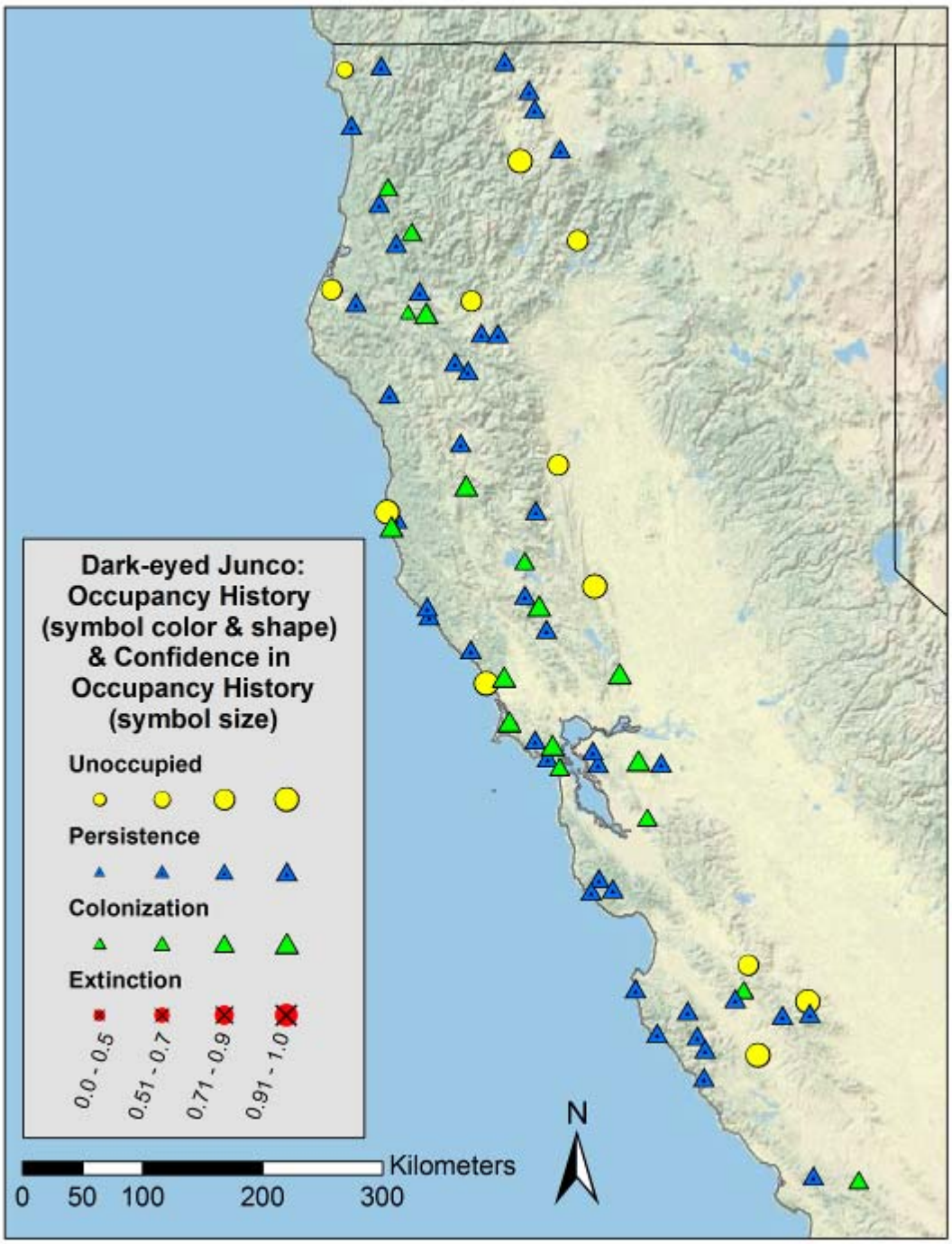

Lark Sparrow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

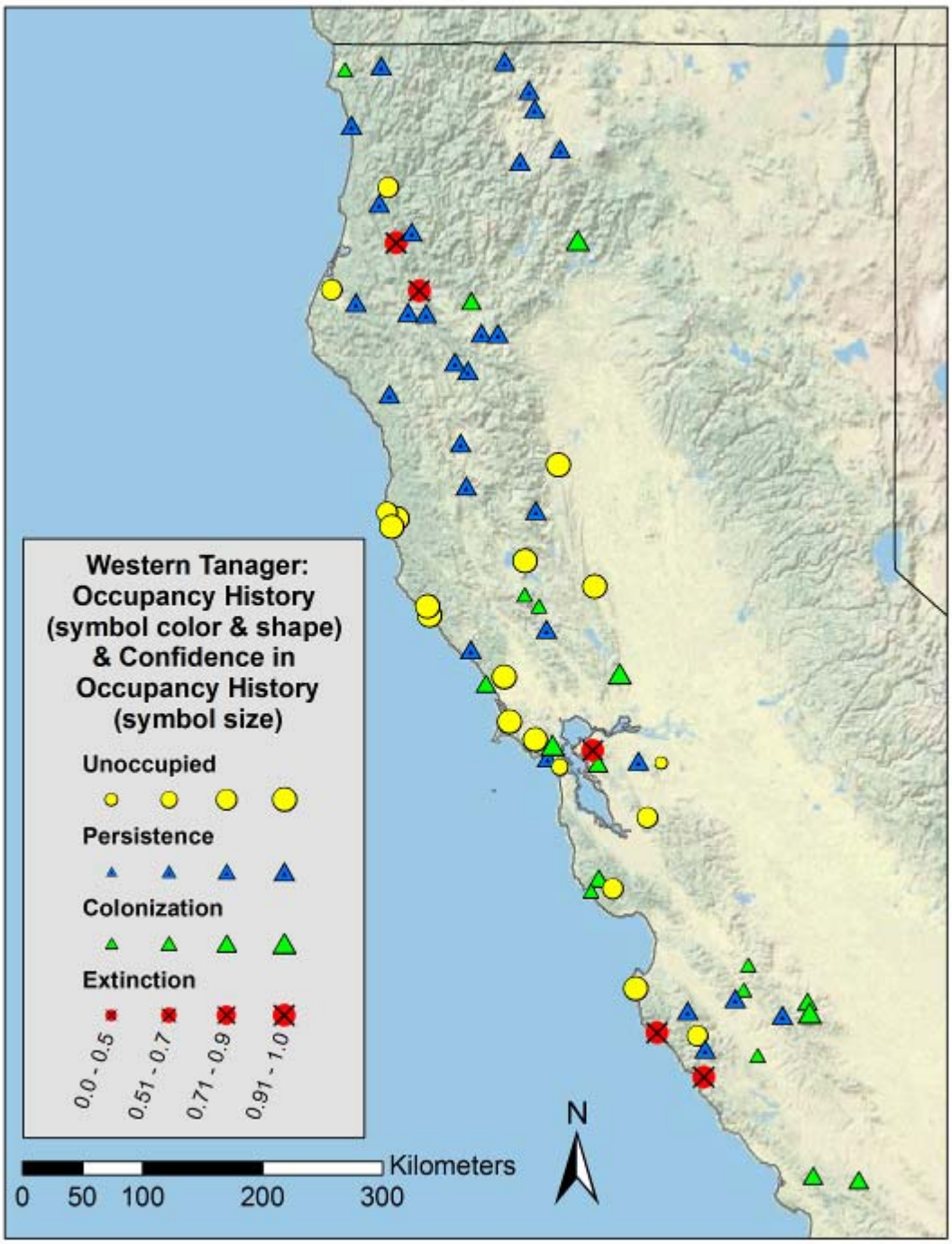

Savannah Sparrow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

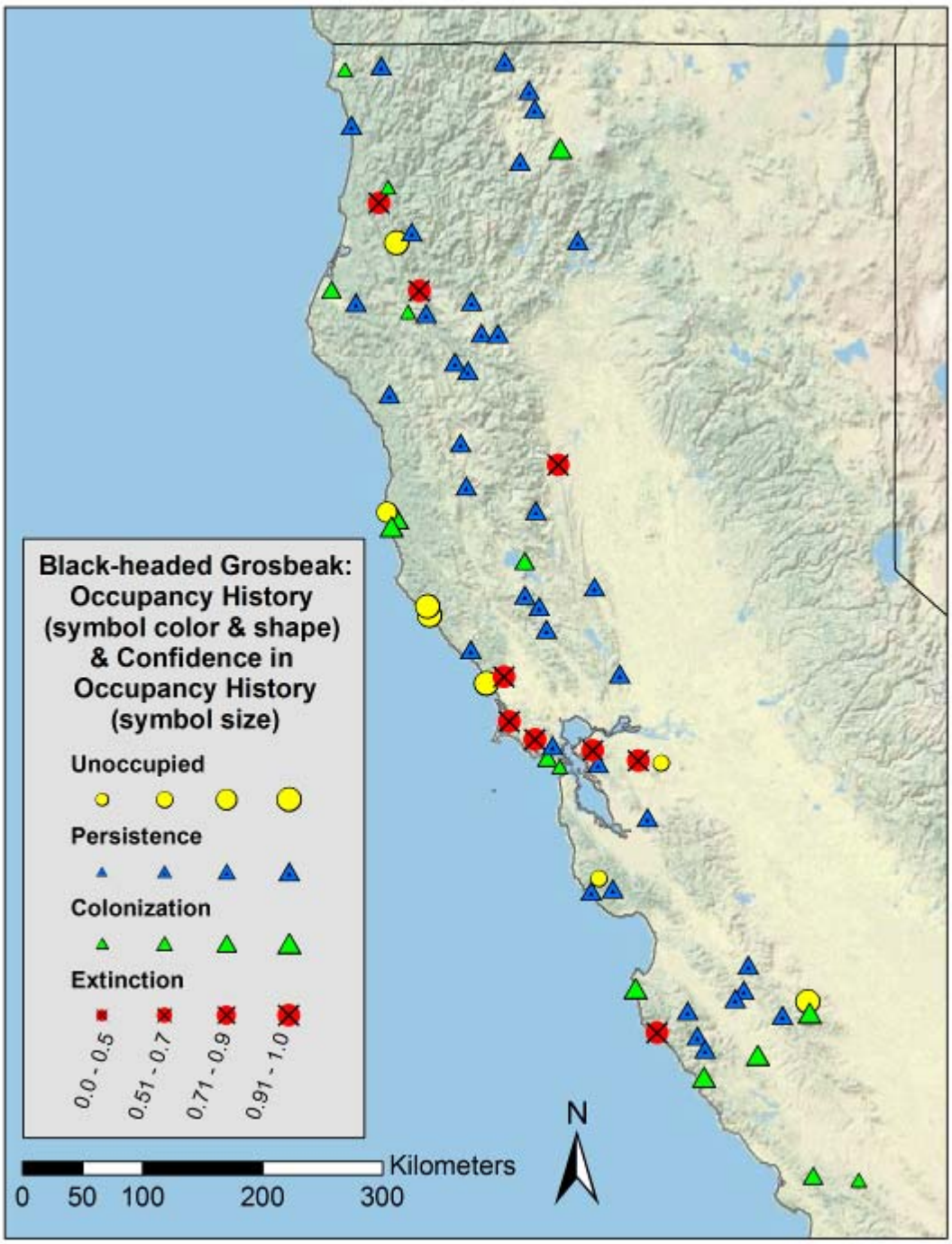

Fox Sparrow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

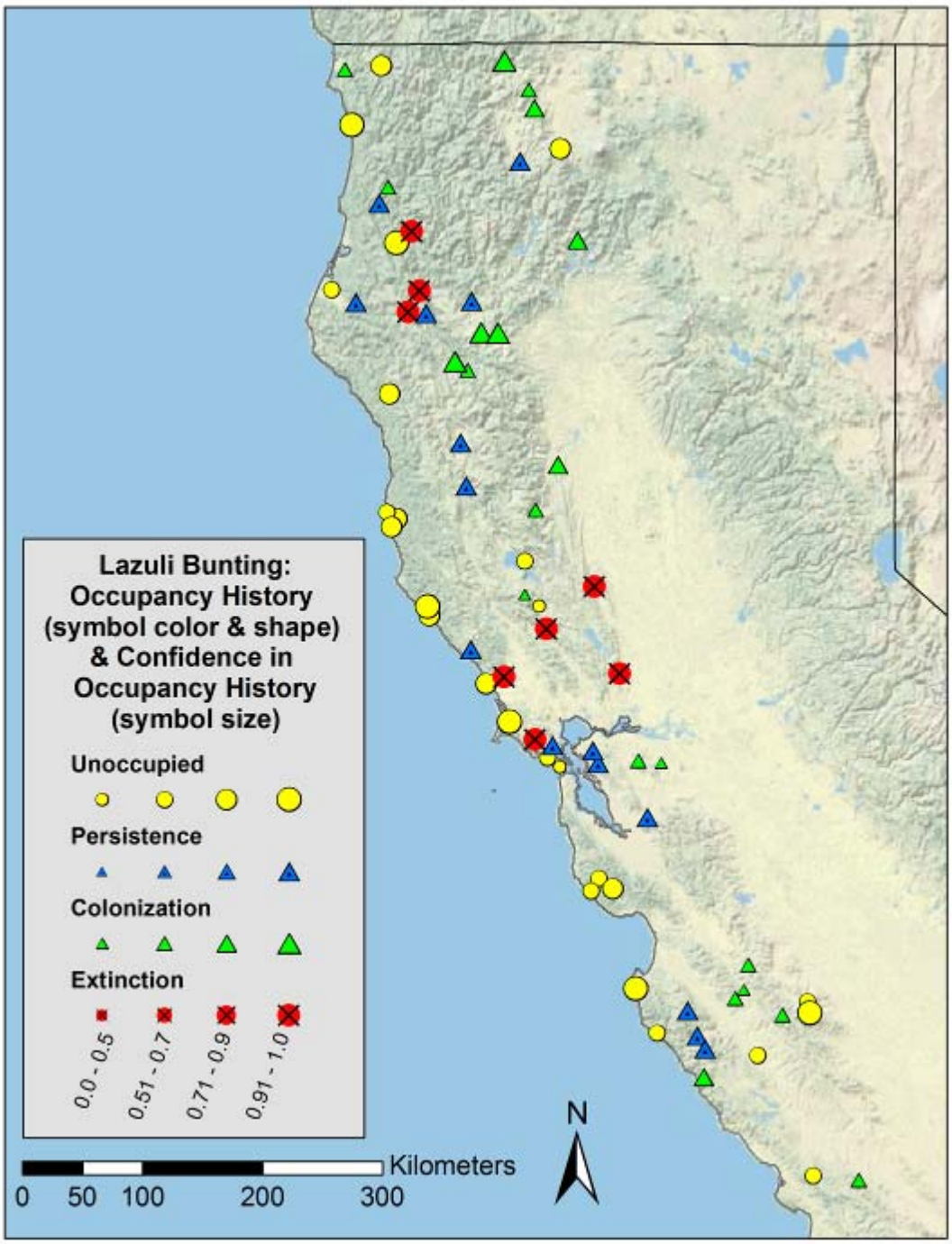

Song Sparrow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

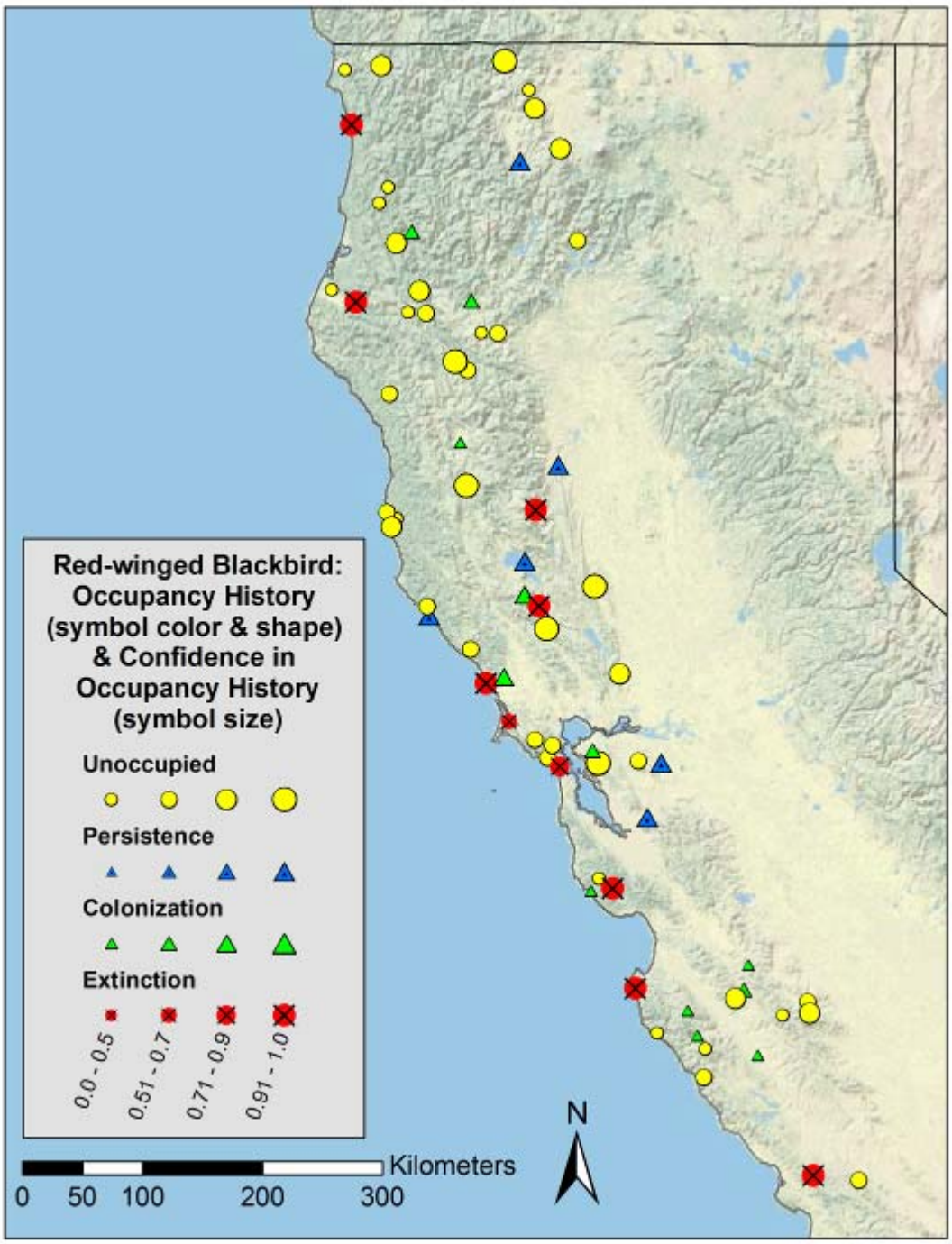

White-crowned Sparrow:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

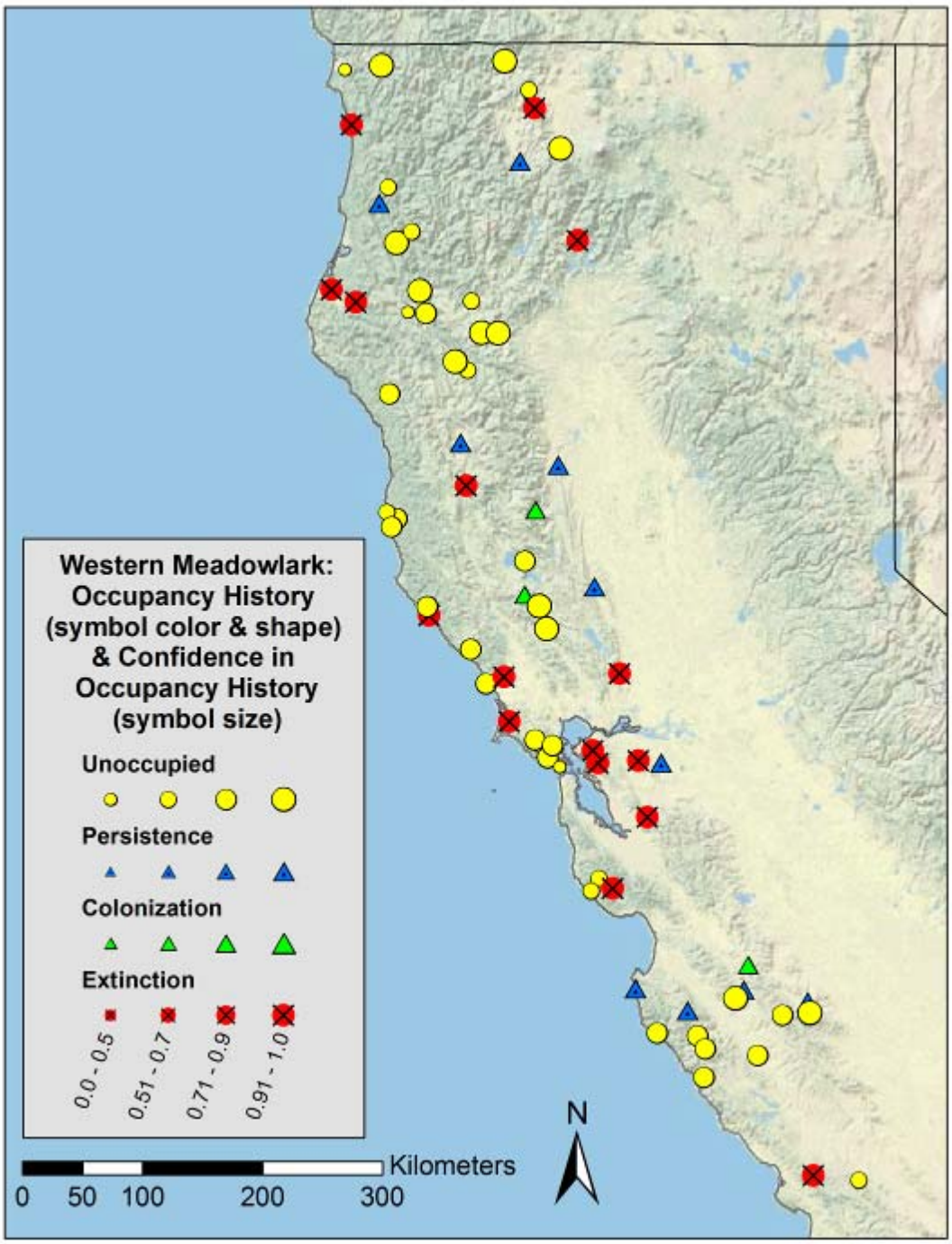

Dark-eyed Junco:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

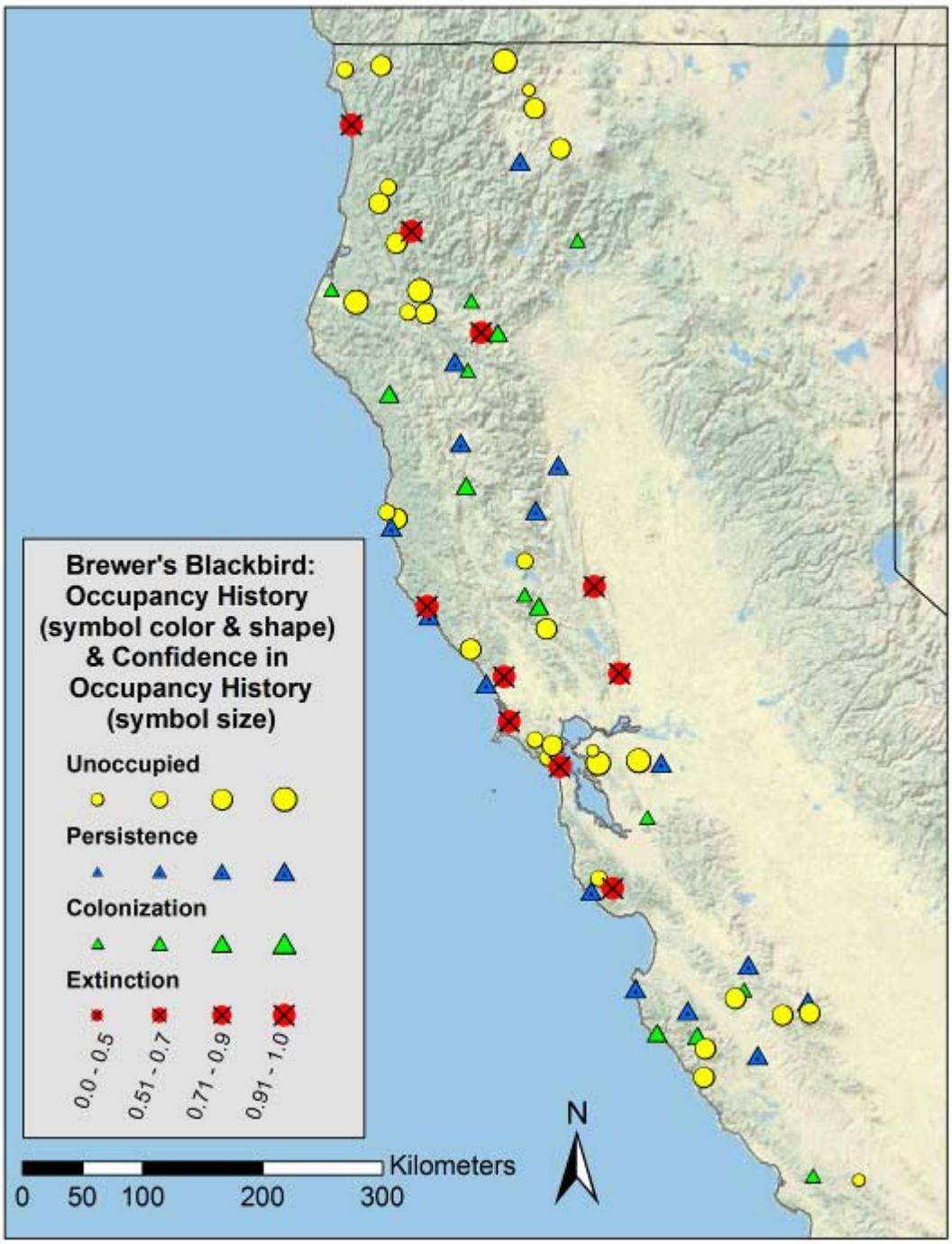

Western Tanager:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

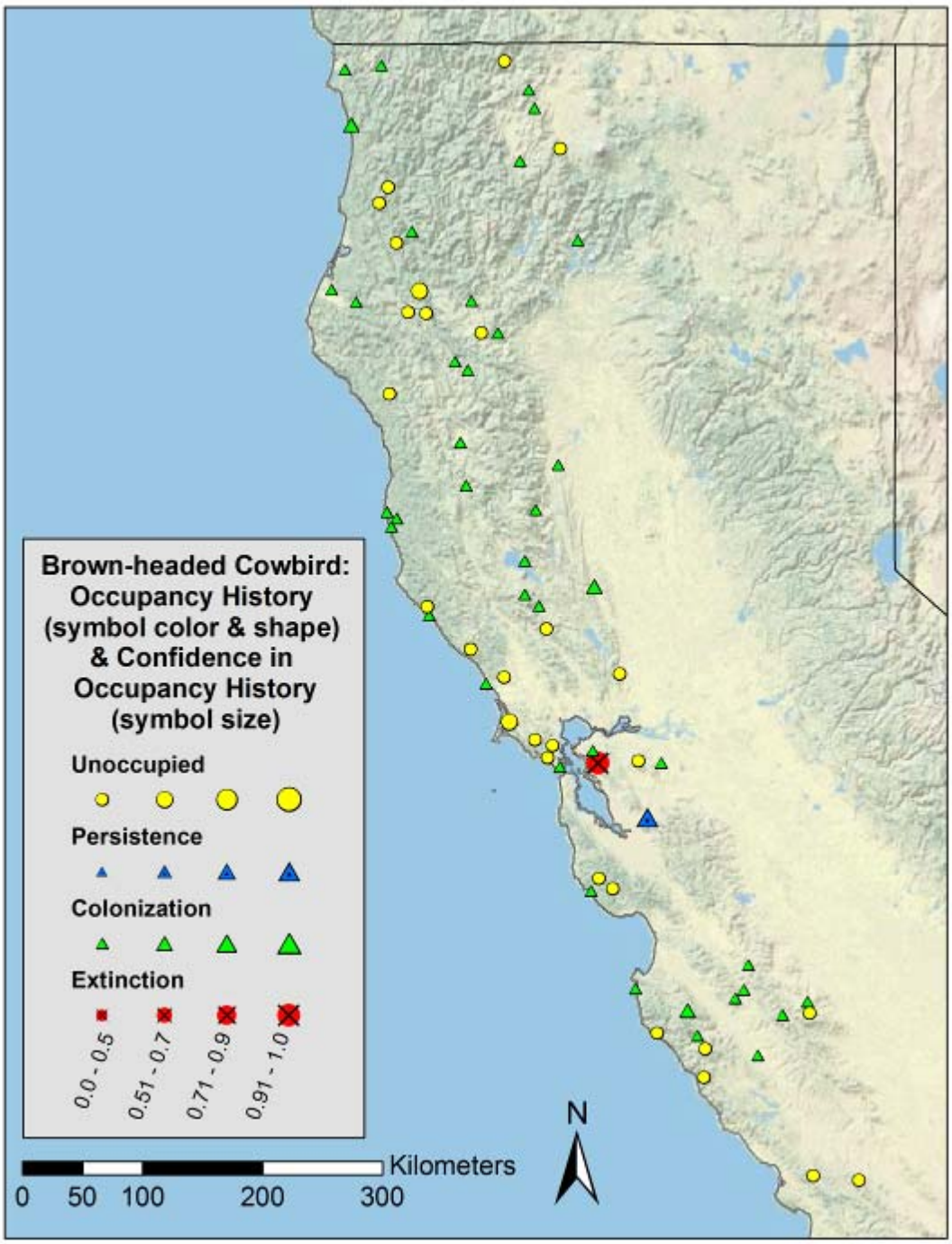

Black-headed Grosbeak:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

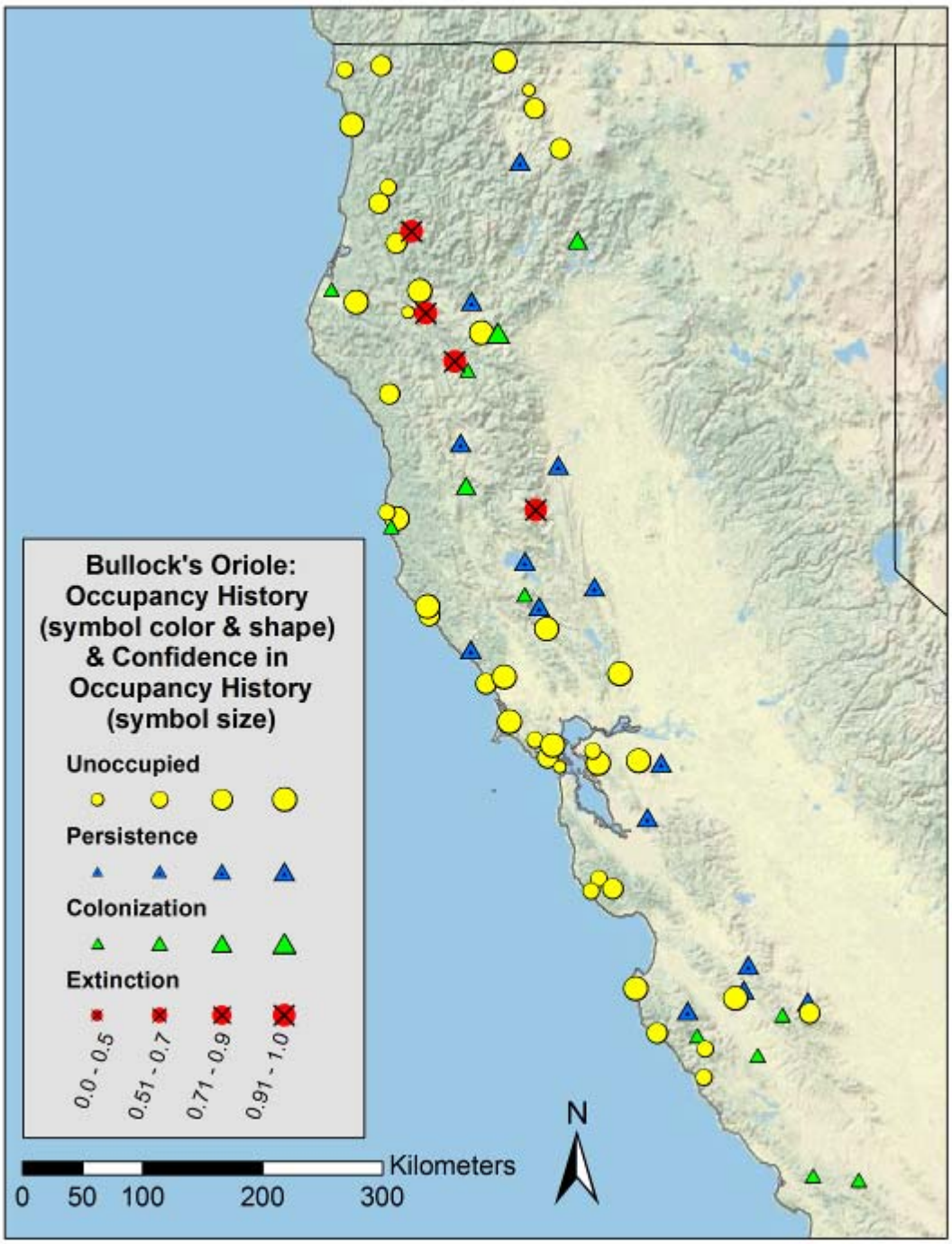

Lazuli Bunting:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

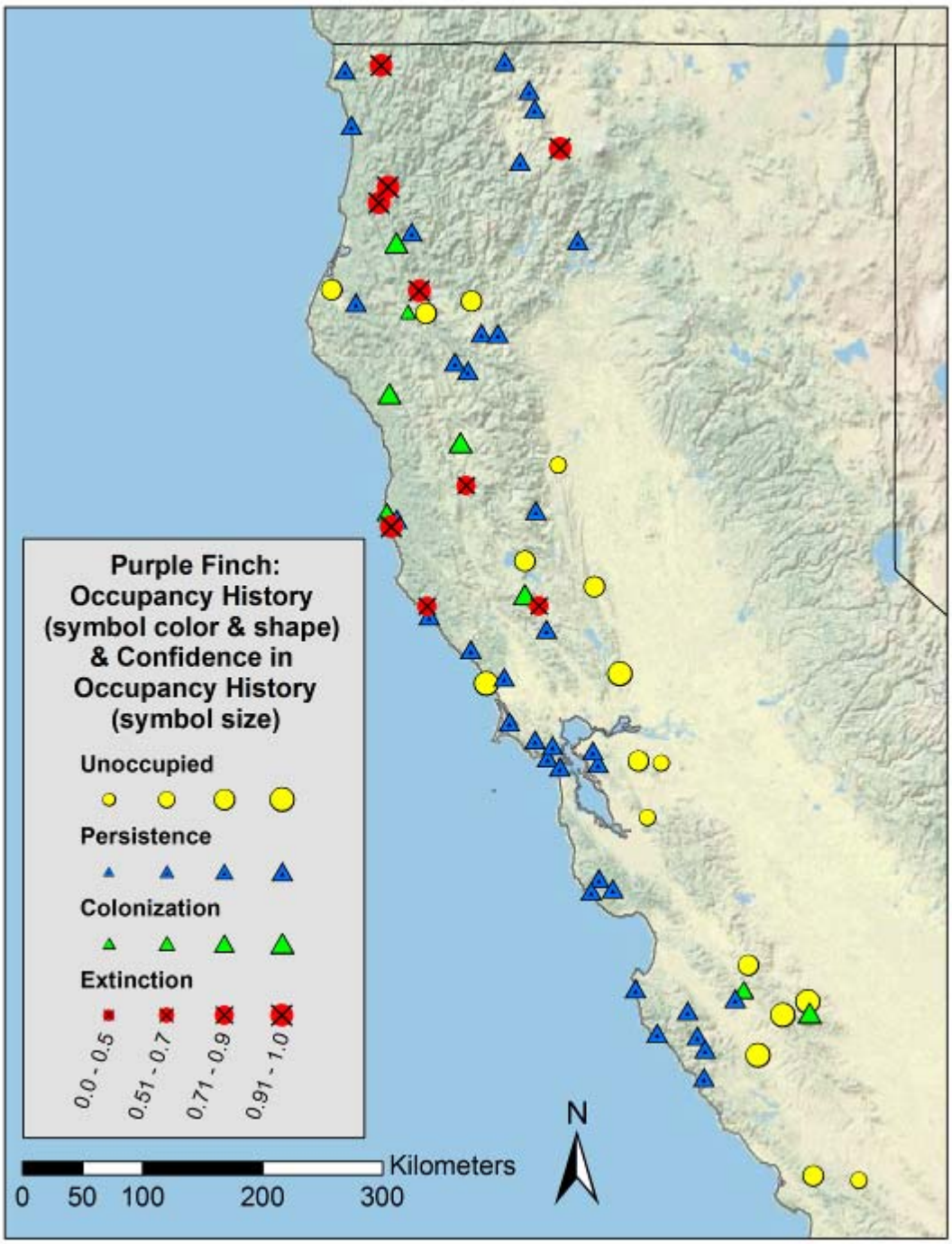

Red-winged Blackbird:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

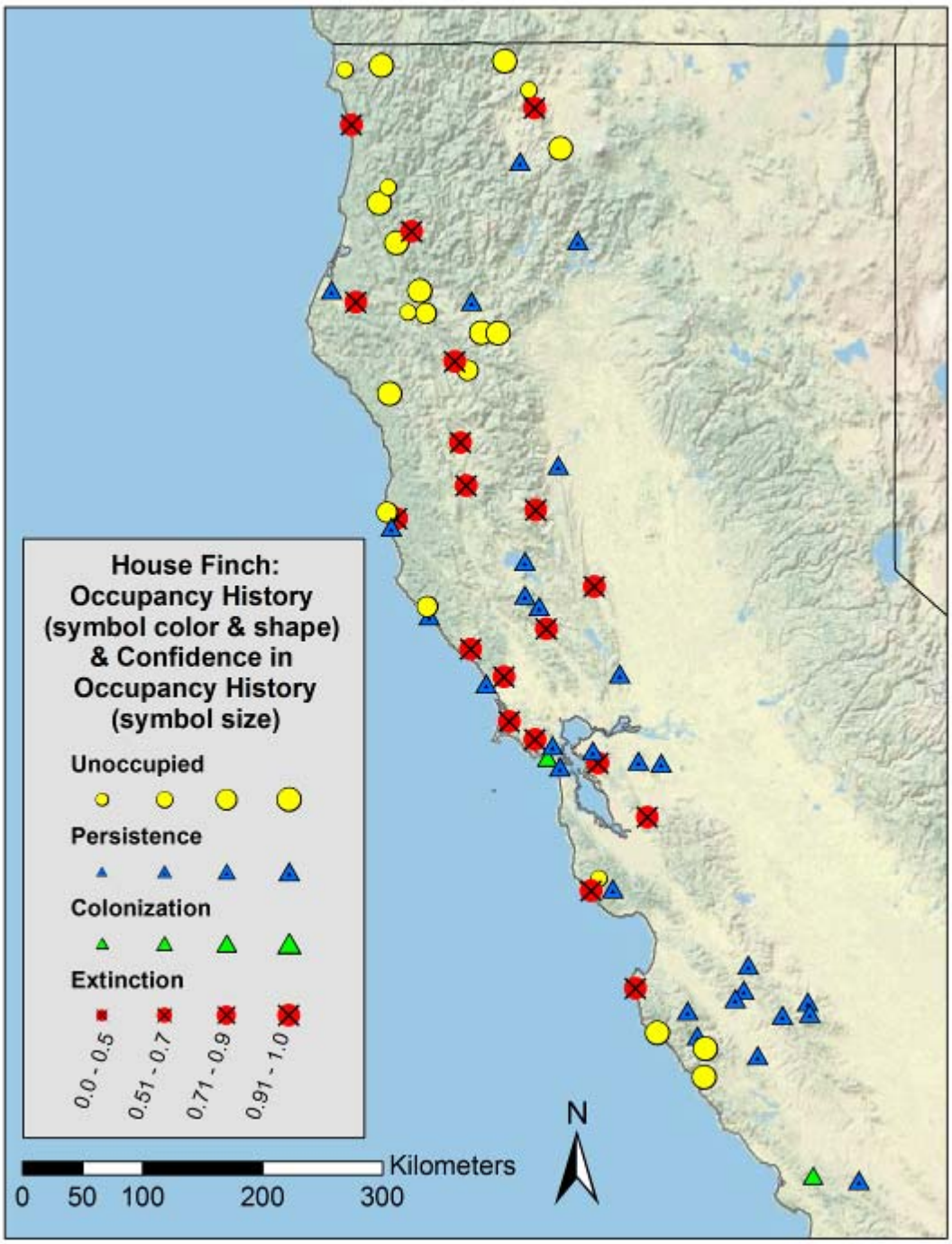

Western Meadowlark:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

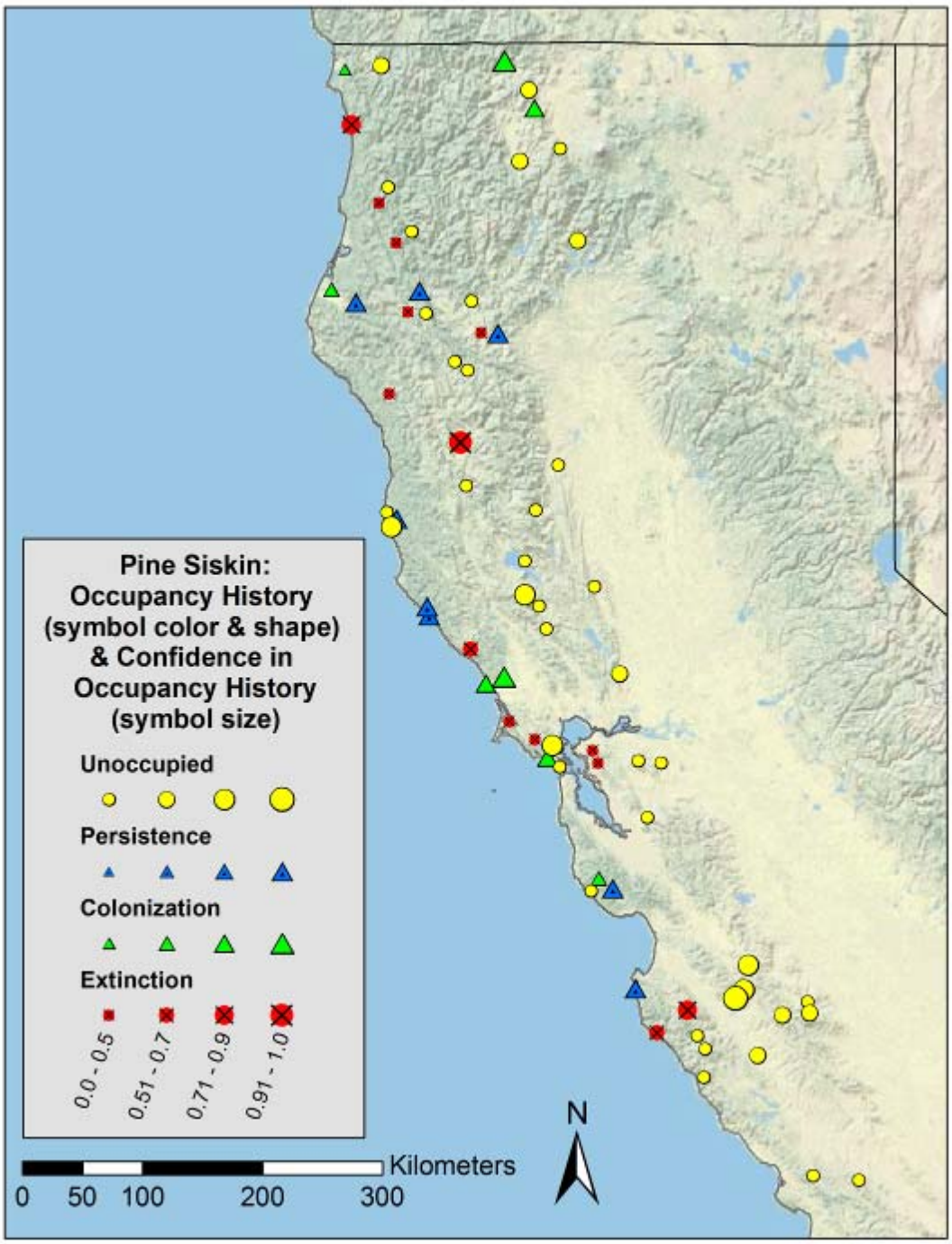

Brewer's Blackbird:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

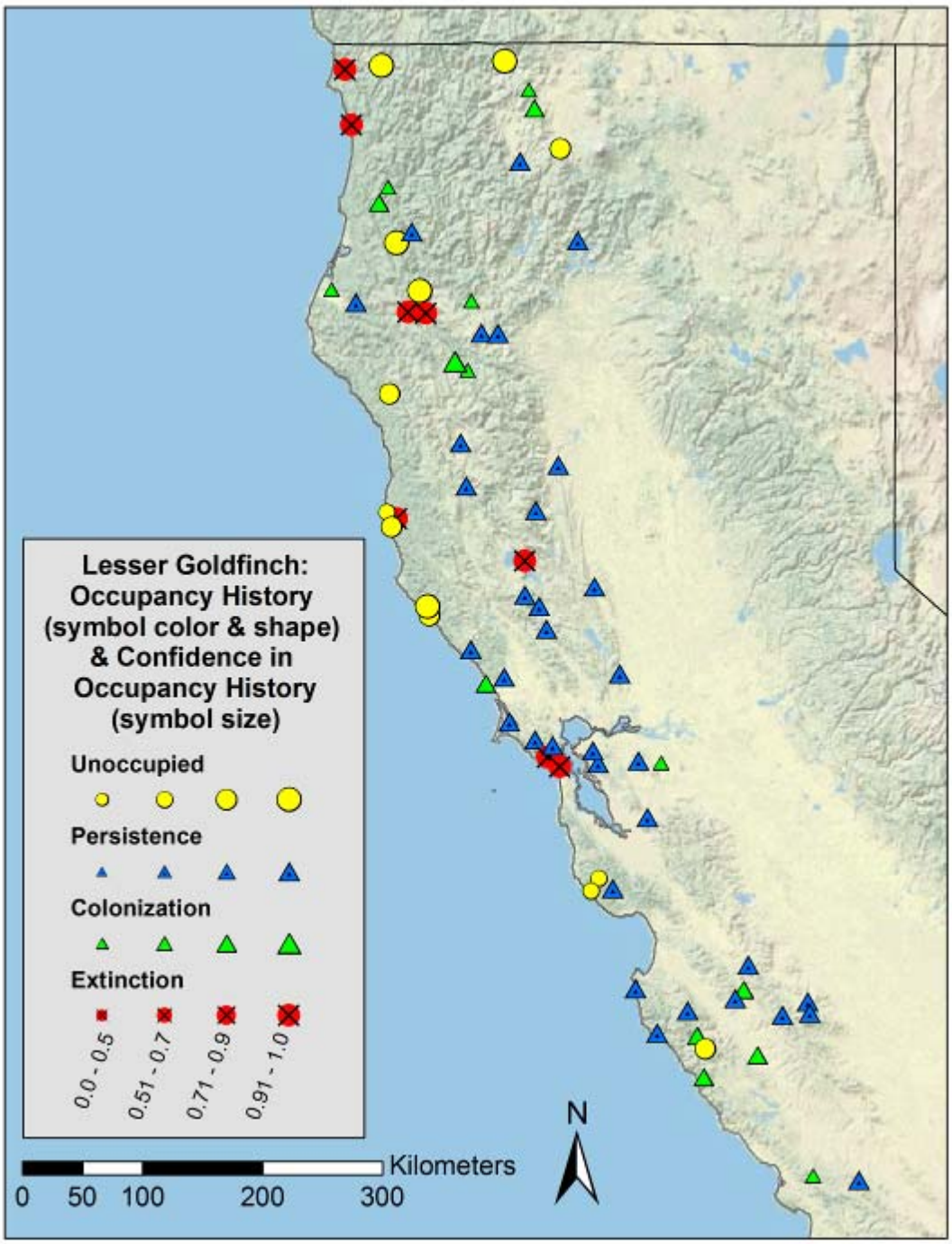

Brown-headed Cowbird:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

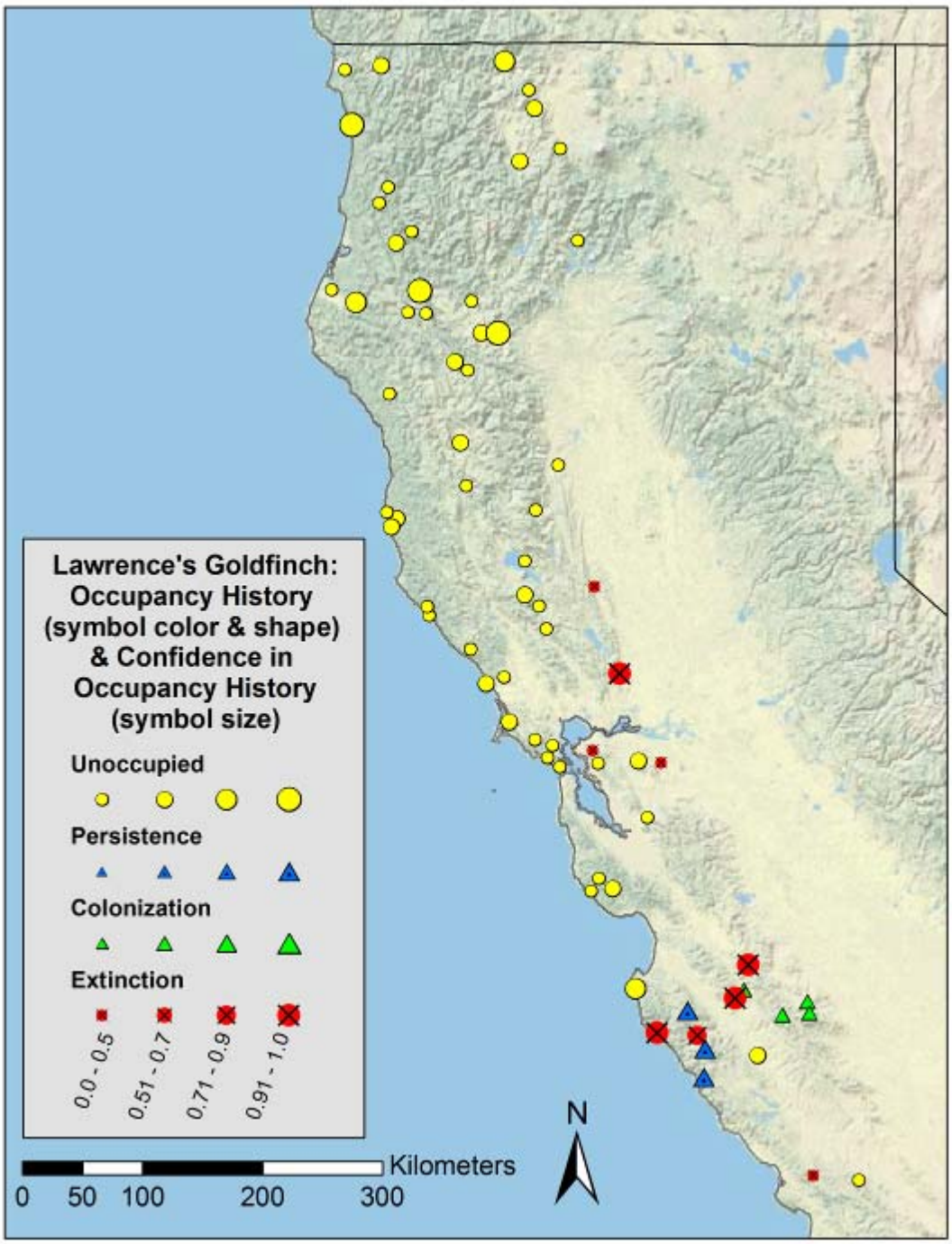

Bullock's Oriole:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

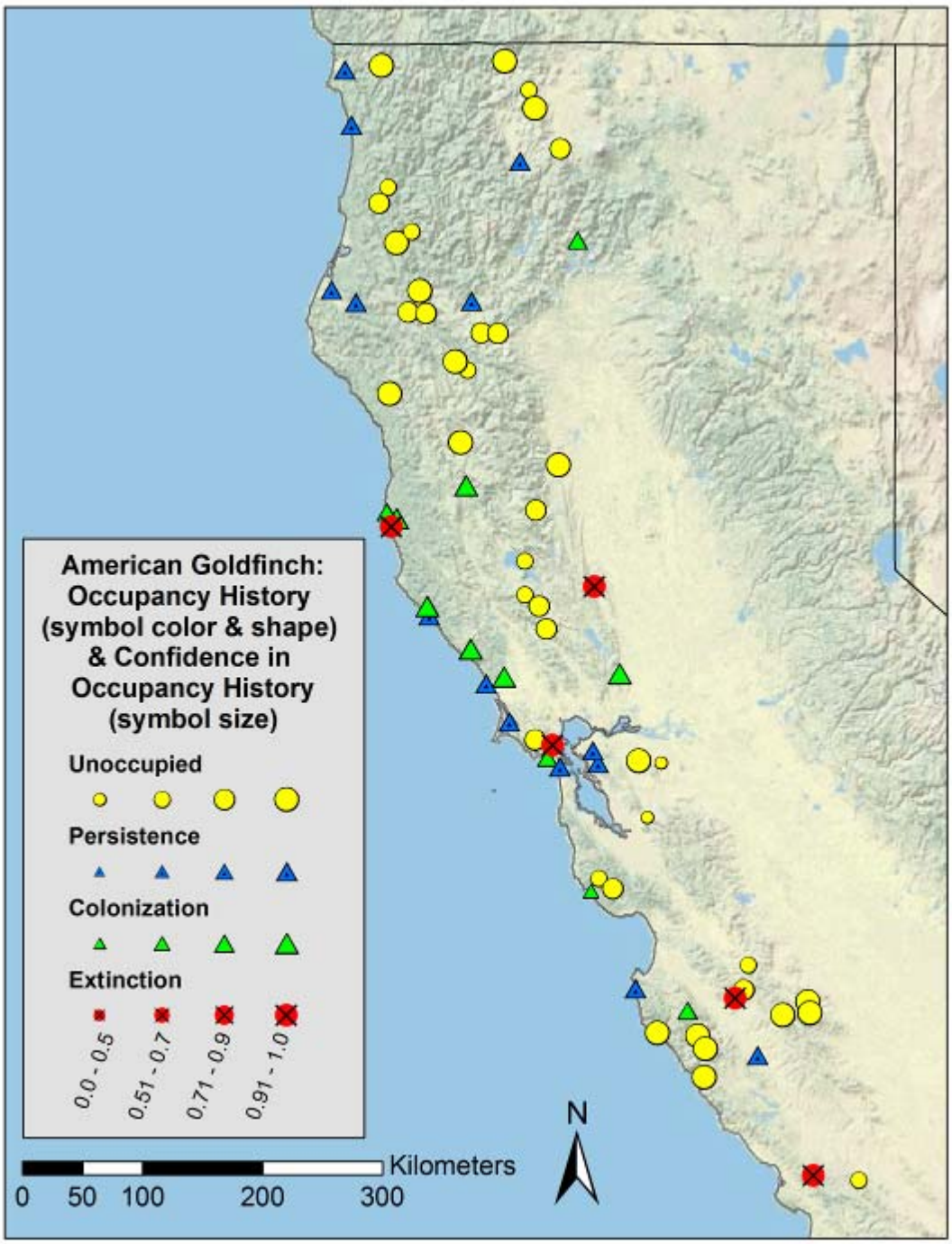

Purple Finch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

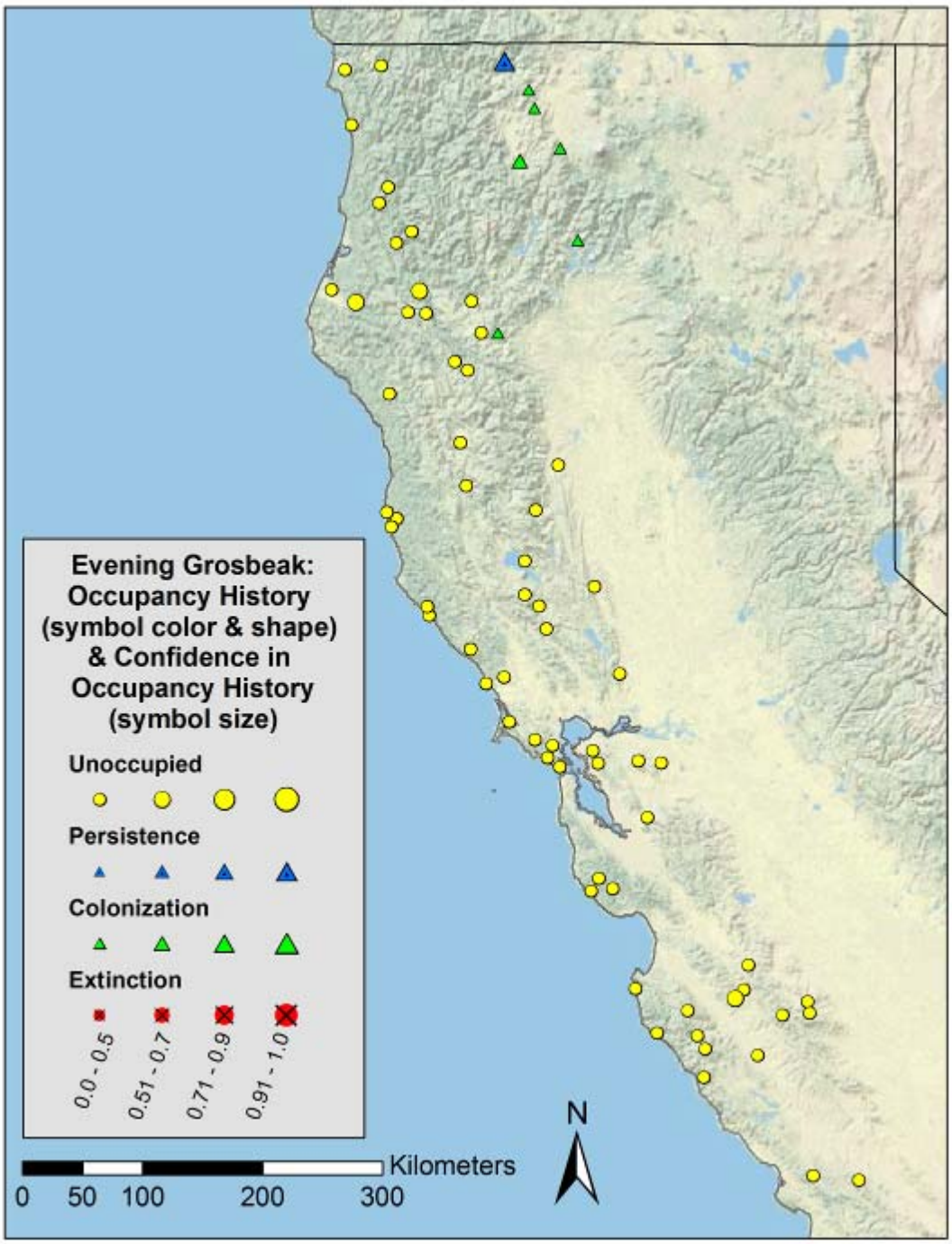

House Finch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Pine Siskin:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Lesser Goldfinch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Lawrence's Goldfinch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


American Goldfinch:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N


Evening Grosbeak:
Occupancy History
(symbol color & shape)
& Confidence in
Occupancy History
(symbol size)
Unoccupied
Persistence
Colonization
Extinction
0.0 - 0.5
0.51 - 0.7
0.71 - 0.9
0.91 - 1.0
Kilometers
0 50 100 200 300
N

APPENDIX 5:
The Probability of Occupancy for Historic (ψ_1) and Modern (ψ_2) Surveys at 70 Sites for the 100 Species Whose Site Occupancy Dynamics Modeled.

Species listed in decreasing order of change in occupancy probability ($\Delta\psi = \psi_2 - \psi_1$).

Species	ψ_1	ψ_2	$\Delta\psi$
Anna's Hummingbird	0.16	0.79	0.63
Common Raven	0.35	0.87	0.53
Red-shouldered Hawk	0.00	0.46	0.46
European Starling	0.00	0.44	0.44
Brown-headed Cowbird	0.14	0.44	0.3
Violet-green Swallow	0.52	0.77	0.25
Wilson's Warbler	0.02	0.24	0.22
Spotted Towhee	0.73	0.94	0.22
Red-breasted Nuthatch	0.14	0.36	0.21
Allen's Hummingbird	0.42	0.61	0.2
Dark-eyed Junco	0.68	0.84	0.16
Chestnut-backed Chickadee	0.50	0.64	0.13
Pacific-slope Flycatcher	0.74	0.87	0.13
Black-throated Warbler	0.40	0.53	0.13
Orange-crowned Warbler	0.70	0.81	0.1
Hammond's Flycatcher	0.00	0.10	0.1
Yellow-rumped Warbler (Audubon)	0.28	0.37	0.09
MacGillivray's Warbler	0.28	0.38	0.09
Nashville Warbler	0.14	0.22	0.09
American Goldfinch	0.24	0.32	0.09
Dusky Flycatcher	0.02	0.09	0.08
Western Tanager	0.78	0.85	0.07
Wilson's Warbler	0.64	0.71	0.07
Warbling Vireo	0.78	0.84	0.06
Killdeer	0.29	0.35	0.06
Blue-gray Gnatcatcher	0.29	0.35	0.06
American Robin	0.88	0.92	0.04
Hermit Warbler	0.19	0.23	0.04
Bullock's Oriole	0.34	0.36	0.02
Barn Swallow	0.12	0.14	0.01
Steller's Jay	0.95	0.96	0.01
Pileated Woodpecker	0.69	0.70	0.01
Rufous-crowned Sparrow	0.06	0.06	0.01
Red-breasted Sapsucker	0.02	0.03	0.01
Bewick's Wren	0.72	0.73	> 0, < 0.01
Fox Sparrow	0.03	0.04	> 0, < 0.01
White-throated Swift	0.01	0.01	> 0, < 0.01
Golden-crowned Kinglet	0.32	0.32	>0, < 0.01

Species	ψ_1	ψ_2	$\Delta\psi$
Townsend's Solitaire	0.00	0.00	> 0, < 0.01
Acorn Woodpecker	0.66	0.66	> -0.01, < 0
Loggerhead Shrike	0.00	0.00	> -0.01, < 0
California Towhee	0.61	0.61	> -0.01, < 0
Ash-throated Flycatcher	0.50	0.49	-0.01
Mountain Chickadee	0.01	0.00	-0.01
Spotted Sandpiper	0.16	0.14	-0.02
Oak Titmouse	0.30	0.28	-0.02
Northern Rough-winged Swallow	0.58	0.56	-0.02
Nuttall's Woodpecker	0.24	0.22	-0.02
Brown Creeper	0.85	0.83	-0.03
Belted Kingfisher	0.15	0.12	-0.03
Pygmy Nuthatch	0.20	0.17	-0.03
Hermit Thrush	0.27	0.24	-0.03
Song Sparrow	0.52	0.49	-0.03
Mourning Dove	0.81	0.77	-0.04
Cassin's Vireo	0.58	0.54	-0.04
Purple Martin	0.29	0.25	-0.04
Northern Flicker	0.96	0.92	-0.04
Mountain Quail	0.53	0.49	-0.04
Cooper's Hawk	0.31	0.27	-0.04
Turkey Vulture	0.82	0.77	-0.05
California Thrasher	0.28	0.23	-0.05
White-crowned Sparrow	0.18	0.12	-0.06
Western Kingbird	0.33	0.26	-0.06
California Quail	0.89	0.83	-0.07
Hutton's Vireo	0.71	0.64	-0.07
Bushtit	0.91	0.83	-0.08
Yellow-breasted Chat	0.34	0.25	-0.09
Western Scrub-jay	0.82	0.73	-0.09
Common Yellowthroat	0.20	0.10	-0.1
Swainson's Thrush	0.49	0.38	-0.11
Hairy Woodpecker	0.88	0.77	-0.12
Yellow Warbler	0.43	0.31	-0.12
House Wren	0.73	0.61	-0.13
Western Wood-pewee	0.80	0.66	-0.13
Lesser Goldfinch	0.89	0.75	-0.14
Chipping Sparrow	0.61	0.47	-0.14
Purple Finch	0.90	0.76	-0.15
Wrentit	0.88	0.72	-0.16
Cliff Swallow	0.63	0.47	-0.16
Lazuli Bunting	0.55	0.38	-0.17
Pine Siskin	0.96	0.79	-0.18
American Crow	0.56	0.37	-0.19
Black-headed Grosbeak	0.99	0.79	-0.2
Olive-sided Flycatcher	0.55	0.34	-0.21
Red-winged Blackbird	0.51	0.29	-0.21
Lark Sparrow	0.30	0.09	-0.22
Band-tailed Pigeon	0.93	0.71	-0.22

Species	ψ_1	ψ_2	$\Delta\psi$
Brewer's Blackbird	0.69	0.46	-0.23
Lawrence's Goldfinch	0.26	0.03	-0.24
Vaux's Swift	0.25	0.00	-0.25
Black Phoebe	0.77	0.52	-0.25
American Kestrel	0.59	0.33	-0.26
Western Bluebird	0.77	0.48	-0.28
Red-tailed Hawk	0.99	0.70	-0.28
Downy Woodpecker	0.99	0.68	-0.31
Western Meadowlark	0.51	0.16	-0.34
Savannah Sparrow	0.35	0.01	-0.34
House Finch	0.90	0.55	-0.36
White-breasted Nuthatch	0.99	0.62	-0.37
Tree Swallow	0.54	0.13	-0.41