

SUPPORTING INFORMATION

Table 1. Localized species considered in Zonation reserve selection analysis for the Pacific Northwest. Species with less than 10 locations after thinning of locations to > 1km separation were excluded from further analysis.

Scientific name	Taxa group	Original Records	Thinned Records
<i>Hydromantes shastae</i>	Amphibian	2	<10
<i>Plethodon larselli</i> *	Amphibian	132	97
<i>Plethodon stormi</i>	Amphibian	336	138
<i>Plethodon vandykei</i>	Amphibian	42	34
<i>Strix nebulosa</i>	Bird	761	384
<i>Brotherella roelli</i>	Bryophyte	7	<10
<i>Buxbaumia viridis</i>	Bryophyte	827	405
<i>Diplophyllum plicatum</i>	Bryophyte	67	40
<i>Herbertus aduncus</i>	Bryophyte	7	<10
<i>Iwatsukiella leucotricha</i>	Bryophyte	17	10
<i>Kurzia makinoana</i>	Bryophyte	5	<10
<i>Marsupella emarginata</i> var. <i>aquatica</i>	Bryophyte	4	<10
<i>Orthodontium gracile</i>	Bryophyte	31	<10
<i>Ptilidium californicum</i>	Bryophyte	1027	446
<i>Racomitrium aquaticum</i>	Bryophyte	31	23
<i>Rhizomnium nudum</i>	Bryophyte	220	143
<i>Schistostega pennata</i>	Bryophyte	102	73
<i>Tetraphis geniculata</i>	Bryophyte	103	59
<i>Tritomaria exsectiformis</i>	Bryophyte	30	16
<i>Tritomaria quinquedentata</i>	Bryophyte	15	12
<i>Acanthophysium farlowii</i>	Fungus	2	<10
<i>Albatrellus avellaneus</i>	Fungus	7	<10
<i>Albatrellus caeruleoporus</i>	Fungus	9	<10
<i>Albatrellus ellisii</i>	Fungus	43	32
<i>Albatrellus flettii</i>	Fungus	82	64

<i>Alpova alexsmithii</i>	Fungus	7	<10
<i>Alpova olivaceotinctus</i>	Fungus	3	<10
<i>Arcangeliella camphorata</i>	Fungus	15	12
<i>Arcangeliella crassa</i>	Fungus	2	<10
<i>Arcangeliella lactarioides</i>	Fungus	1	<10
<i>Asterophora lycoperdoides</i>	Fungus	6	<10
<i>Asterophora parasitica</i>	Fungus	5	<10
<i>Baeospora myriadophylla</i>	Fungus	18	18
<i>Balsamia nigrens</i>	Fungus	5	<10
<i>Boletus haematinus</i>	Fungus	1	<10
<i>Boletus pulcherrimus</i>	Fungus	36	12
<i>Bondarzewia mesenterica</i>	Fungus	141	87
<i>Bridgeoporus nobilissimus</i>	Fungus	102	28
<i>Cantharellus subalbidus</i>	Fungus	214	125
<i>Catathelasma ventricosa</i>	Fungus	16	15
<i>Chalciporus piperatus</i>	Fungus	86	69
<i>Chamonixia caespitosa</i>	Fungus	9	<10
<i>Choiromyces alveolatus</i>	Fungus	9	<10
<i>Choiromyces venosus</i>	Fungus	3	<10
<i>Chroogomphus loculatus</i>	Fungus	5	<10
<i>Chrysomphalina grossula</i>	Fungus	15	14
<i>Clavariadelphus ligula</i>	Fungus	47	38
<i>Clavariadelphus occidentalis</i>	Fungus	78	50
<i>Clavariadelphus sachalinensis</i>	Fungus	34	21
<i>Clavariadelphus subfastigiatus</i>	Fungus	6	<10
<i>Clavariadelphus truncatus</i>	Fungus	122	82
<i>Clavulina castanopes var. lignicola</i>	Fungus	14	12
<i>Clitocybe senilis</i>	Fungus	6	<10
<i>Clitocybe subditopoda</i>	Fungus	9	<10
<i>Collybia bakerensis</i>	Fungus	128	58
<i>Collybia racemosa</i>	Fungus	38	24
<i>Cordyceps ophioglossoides</i>	Fungus	12	<10
<i>Cortinarius barlowensis</i>	Fungus	16	13

<i>Cortinarius boulderensis</i>	Fungus	10	<10
<i>Cortinarius cyanites</i>	Fungus	7	<10
<i>Cortinarius depauperatus</i>	Fungus	1	<10
<i>Cortinarius magnivelatus</i>	Fungus	9	<10
<i>Cortinarius olympianus</i>	Fungus	45	32
<i>Cortinarius speciosissimus</i>	Fungus	6	<10
<i>Cortinarius umidicola</i>	Fungus	1	<10
<i>Cortinarius valgus</i>	Fungus	1	<10
<i>Cortinarius variipes</i>	Fungus	8	<10
<i>Cortinarius verrucisporus</i>	Fungus	4	<10
<i>Cortinarius wiebeae</i>	Fungus	1	<10
<i>Craterellus tubaeformis</i>	Fungus	258	176
<i>Cudonia monticola</i>	Fungus	19	15
<i>Cyphellostereum laeve</i>	Fungus	4	<10
<i>Dermocybe humboldtensis</i>	Fungus	4	<10
<i>Destuntzia fusca</i>	Fungus	3	<10
<i>Destuntzia rubra</i>	Fungus	4	<10
<i>Dichostereum boreale</i>	Fungus	1	<10
<i>Elaphomyces anthracinus</i>	Fungus	1	<10
<i>Elaphomyces subviscidus</i>	Fungus	1	<10
<i>Endogone acrogena</i>	Fungus	3	<10
<i>Endogone oregonensis</i>	Fungus	7	<10
<i>Entoloma nitidum</i>	Fungus	12	<10
<i>Fayodia bisphaerigera</i>	Fungus	17	13
<i>Fevansia aurantiaca</i>	Fungus	2	<10
<i>Galerina cerina</i>	Fungus	3	<10
<i>Galerina heterocystis</i>	Fungus	13	<10
<i>Gastroboletus imbellus</i>	Fungus	2	<10
<i>Gastroboletus ruber</i>	Fungus	28	20
<i>Gastroboletus subalpinus</i>	Fungus	35	27
<i>Gastroboletus turbinatus</i>	Fungus	29	25
<i>Gastroboletus vividus</i>	Fungus	3	<10
<i>Gautieria magnicellaris</i>	Fungus	1	<10

<i>Gautieria otthii</i>	Fungus	2	<10
<i>Gelatinodiscus flavidus</i>	Fungus	28	20
<i>Glomus radiatus</i>	Fungus	3	<10
<i>Gomphus bonarii</i>	Fungus	26	18
<i>Gomphus clavatus</i>	Fungus	104	70
<i>Gomphus kauffmanii</i>	Fungus	60	50
<i>Gymnomyces abietis</i>	Fungus	21	17
<i>Gymnomyces nondistincta</i>	Fungus	1	<10
<i>Gymnopilus punctifolius</i>	Fungus	98	61
<i>Gyromitra californica</i>	Fungus	33	29
<i>Hebeloma olympianum</i>	Fungus	8	<10
<i>Helvella crassitunicata</i>	Fungus	27	22
<i>Helvella elastica</i>	Fungus	52	34
<i>Hydnotrya inordinata</i>	Fungus	2	<10
<i>Hydnotrya subnix</i>	Fungus	1	<10
<i>Hydropus marginellus</i>	Fungus	18	16
<i>Hygrophorus caeruleus</i>	Fungus	5	<10
<i>Hygrophorus karstenii</i>	Fungus	19	19
<i>Hygrophorus vernalis</i>	Fungus	1	<10
<i>Hypomyces luteovirens</i>	Fungus	12	<10
<i>Leucogaster citrinus</i>	Fungus	12	<10
<i>Leucogaster microsporus</i>	Fungus	9	<10
<i>Macowanites chlorinosmus</i>	Fungus	14	12
<i>Macowanites lymanensis</i>	Fungus	1	<10
<i>Macowanites mollis</i>	Fungus	3	<10
<i>Marasmius applanatipes</i>	Fungus	2	<10
<i>Martellia fragrans</i>	Fungus	2	<10
<i>Martellia idahoensis</i>	Fungus	3	<10
<i>Mycena hudsoniana</i>	Fungus	10	<10
<i>Mycena overholtsii</i>	Fungus	143	98
<i>Mycena quinaultensis</i>	Fungus	10	<10
<i>Mycena tenax</i>	Fungus	29	19
<i>Mythicomyces corneipes</i>	Fungus	9	<10

<i>Neolentinus adhaerens</i>	Fungus	7	<10
<i>Neolentinus kauffmanii</i>	Fungus	40	32
<i>Nivatogastrium nubigenum</i>	Fungus	176	69
<i>Octavianina cyanescens</i>	Fungus	1	<10
<i>Octavianina papyracea</i>	Fungus	2	<10
<i>Otidea leporina</i>	Fungus	93	66
<i>Otidea smithii</i>	Fungus	10	<10
<i>Phaeocollybia attenuata</i>	Fungus	125	78
<i>Phaeocollybia californica</i>	Fungus	36	29
<i>Phaeocollybia dissiliens</i>	Fungus	22	20
<i>Phaeocollybia fallax</i>	Fungus	98	69
<i>Phaeocollybia gregaria</i>	Fungus	4	<10
<i>Phaeocollybia kauffmanii</i>	Fungus	134	65
<i>Phaeocollybia olivacea</i>	Fungus	106	68
<i>Phaeocollybia oregonensis</i>	Fungus	13	<10
<i>Phaeocollybia piceae</i>	Fungus	48	31
<i>Phaeocollybia pseudofestiva</i>	Fungus	38	29
<i>Phaeocollybia scatesiae</i>	Fungus	17	15
<i>Phaeocollybia sipei</i>	Fungus	44	27
<i>Phaeocollybia spadicea</i>	Fungus	60	46
<i>Phellodon atratus</i>	Fungus	31	24
<i>Pholiota albivelata</i>	Fungus	17	12
<i>Podostroma alutaceum</i>	Fungus	10	<10
<i>Polyozellus multiplex</i>	Fungus	65	46
<i>Pseudaleuria quinaultiana</i>	Fungus	7	<10
<i>Ramaria abietina</i>	Fungus	21	<10
<i>Ramaria amyloidea</i>	Fungus	18	14
<i>Ramaria araiospora</i>	Fungus	110	68
<i>Ramaria aurantiiscescens</i>	Fungus	27	20
<i>Ramaria botryis</i> var. <i>aurantiiramosa</i>	Fungus	10	<10
<i>Ramaria celerivirescens</i>	Fungus	82	58
<i>Ramaria concolor</i> f. <i>tsugina</i>	Fungus	2	<10
<i>Ramaria conjunctipes</i> var. <i>sparsiramosa</i>	Fungus	6	<10

<i>Ramaria coulterae</i>	Fungus	9	<10
<i>Ramaria cyaneigranosa</i>	Fungus	31	28
<i>Ramaria gelatiniaurantia</i>	Fungus	21	<10
<i>Ramaria gracilis</i>	Fungus	2	<10
<i>Ramaria largentii</i>	Fungus	18	13
<i>Ramaria lorithamnus</i>	Fungus	1	<10
<i>Ramaria maculatipes</i>	Fungus	10	<10
<i>Ramaria rainierensis</i>	Fungus	4	<10
<i>Ramaria rubella</i> var. <i>blanda</i>	Fungus	3	<10
<i>Ramaria rubribrunnescens</i>	Fungus	9	<10
<i>Ramaria rubrievanescens</i>	Fungus	51	36
<i>Ramaria rubripermanens</i>	Fungus	145	85
<i>Ramaria spinulosa</i> var. <i>diminutiva</i>	Fungus	1	<10
<i>Ramaria stuntzii</i>	Fungus	104	59
<i>Ramaria suecica</i>	Fungus	1	<10
<i>Ramaria thiersii</i>	Fungus	5	<10
<i>Ramaria verlotensis</i>	Fungus	3	<10
<i>Rhizopogon abietis</i>	Fungus	2	<10
<i>Rhizopogon atroviolaceus</i>	Fungus	8	<10
<i>Rhizopogon brunneiniger</i>	Fungus	6	<10
<i>Rhizopogon chamaleontinus</i>	Fungus	1	<10
<i>Rhizopogon ellipsosporus</i>	Fungus	3	<10
<i>Rhizopogon evadens</i> var. <i>subalpinus</i>	Fungus	19	17
<i>Rhizopogon exiguus</i>	Fungus	3	<10
<i>Rhizopogon flavofibrillosus</i>	Fungus	7	<10
<i>Rhizopogon inquinatus</i>	Fungus	2	<10
<i>Rhizopogon truncatus</i>	Fungus	35	32
<i>Rhodocybe speciosa</i>	Fungus	3	<10
<i>Rickenella swartzii</i>	Fungus	27	15
<i>Russula mustelina</i>	Fungus	1	<10
<i>Sarcodon fuscoindicus</i>	Fungus	40	32
<i>Sedecula pulvinata</i>	Fungus	1	<10
<i>Sowerbyella rhenana</i>	Fungus	63	37

<i>Sparassis crispa</i>	Fungus	76	63
<i>Spathularia flavida</i>	Fungus	37	32
<i>Stagnicola perplexa</i>	Fungus	8	<10
<i>Thaxtoerogaster pavelekii</i>	Fungus	7	<10
<i>Tremiscus helvelloides</i>	Fungus	104	78
<i>Tricholomopsis fulvescens</i>	Fungus	2	<10
<i>Tuber asa</i>	Fungus	2	<10
<i>Tuber pacificum</i>	Fungus	4	<10
<i>Tylophilus porphyrosporus</i>	Fungus	60	26
<i>Bryoria pseudocapillaris</i>	Lichen	46	<10
<i>Bryoria spiralifera</i>	Lichen	58	<10
<i>Bryoria subcana</i>	Lichen	17	14
<i>Buellia oidalea</i>	Lichen	19	<10
<i>Calicium abietinum</i>	Lichen	10	<10
<i>Cetrelia cetrarioides</i>	Lichen	78	47
<i>Chaenotheca chrysocephala</i>	Lichen	11	<10
<i>Chaenotheca ferruginea</i>	Lichen	45	12
<i>Chaenotheca subroscida</i>	Lichen	1	<10
<i>Chaenothecopsis pusilla</i>	Lichen	1	<10
<i>Collema nigrescens</i>	Lichen	77	35
<i>Dendriscoaulon intricatum</i>	Lichen	584	55
<i>Dermatocarpon luridum</i>	Lichen	20	10
<i>Fuscopannaria saubinetii</i>	Lichen	170	90
<i>Hypogymnia duplicata</i>	Lichen	180	53
<i>Hypotrachyna revoluta</i>	Lichen	6	<10
<i>Leptogium burnetiae</i> var. <i>hirsutum</i>	Lichen	5	<10
<i>Leptogium cyanescens</i>	Lichen	26	19
<i>Leptogium rivale</i>	Lichen	84	31
<i>Leptogium teretiusculum</i>	Lichen	20	12
<i>Lobaria linita</i>	Lichen	168	68
<i>Lobaria oregana</i>	Lichen	730	228
<i>Nephroma bellum</i>	Lichen	164	108
<i>Nephroma occultum</i>	Lichen	202	54

<i>Niebla cephalota</i>	Lichen	20	12
<i>Pannaria rubiginosa</i>	Lichen	9	<10
<i>Peltigera pacifica</i>	Lichen	116	66
<i>Platismatia lacunosa</i>	Lichen	114	73
<i>Pseudocyphellaria perpetua</i>	Lichen	21	<10
<i>Pseudocyphellaria rainierensis</i>	Lichen	248	74
<i>Teloschistes flavicans</i>	Lichen	12	<10
<i>Tholurna dissimilis</i>	Lichen	16	15
<i>Usnea hesperina</i>	Lichen	10	<10
<i>Usnea longissima</i>	Lichen	278	106
<i>Arborimus longicaudus</i>	Mammal	54	18
<i>Cryptomastix devia</i>	Mollusk	175	37
<i>Cryptomastix hendersoni</i>	Mollusk	45	11
<i>Deroceras hesperium</i>	Mollusk	19	10
<i>Fluminicola n. sp. 11</i>	Mollusk	18	<10
<i>Fluminicola n. sp. 14</i>	Mollusk	13	<10
<i>Fluminicola n. sp. 15</i>	Mollusk	6	<10
<i>Fluminicola n. sp. 16</i>	Mollusk	29	<10
<i>Fluminicola n. sp. 17</i>	Mollusk	6	<10
<i>Fluminicola n. sp. 18</i>	Mollusk	2	<10
<i>Fluminicola n. sp. 20</i>	Mollusk	7	<10
<i>Fluminicola n. sp. 3</i>	Mollusk	6	<10
<i>Fluminicola seminalis</i>	Mollusk	25	<10
<i>Helminthoglypta talmadgei</i>	Mollusk	16	<10
<i>Hemphillia burringtoni</i>	Mollusk	23	11
<i>Hemphillia glandulosa</i>	Mollusk	1304	43
<i>Hemphillia malonei</i>	Mollusk	1467	41
<i>Juga (Oreobasis) n. sp. 2</i>	Mollusk	29	10
<i>Juga (Oreobasis) n. sp. 3</i>	Mollusk	8	<10
<i>Lyogyrus n. sp. 1</i>	Mollusk	62	19
<i>Lyogyrus n. sp. 2</i>	Mollusk	4	<10
<i>Monadenia chaceana</i>	Mollusk	179	31
<i>Monadenia fidelis minor</i>	Mollusk	112	15

<i>Monadenia troglodytes troglodytes</i>	Mollusk	2	<10
<i>Monadenia troglodytes wintu</i>	Mollusk	1	<10
<i>Oreohelix n. sp.</i>	Mollusk	50	<10
<i>Pristiloma articum crateris</i>	Mollusk	160	18
<i>Prophysaon coeruleum</i>	Mollusk	10991	264
<i>Trilobopsis roperi</i>	Mollusk	11	<10
<i>Trilobopsis tehamana</i>	Mollusk	6	<10
<i>Vertigo n. sp.</i>	Mollusk	2	<10
<i>Vespericola pressleyi</i>	Mollusk	5	<10
<i>Vespericola shasta</i>	Mollusk	11	<10
<i>Vorticifex n. sp. 1</i>	Mollusk	2	<10
<i>Bensoniella oregana</i>	Vascular plant	73	<10
<i>Botrychium minganense</i>	Vascular plant	121	42
<i>Botrychium montanum</i>	Vascular plant	96	32
<i>Coptis asplenifolia</i>	Vascular plant	25	<10
<i>Coptis trifolia</i>	Vascular plant	4	<10
<i>Corydalis aquae-gelidae</i>	Vascular plant	159	23
<i>Cypripedium fasciculatum</i>	Vascular plant	1275	80
<i>Cypripedium montanum</i>	Vascular plant	596	92
<i>Eucephalus vialis</i>	Vascular plant	190	33
<i>Galium kamtschaticum</i>	Vascular plant	91	27
<i>Platanthera orbiculata var. orbiculata</i>	Vascular plant	206	30

* Although occurring at greater than 10 locations, *Plethodon larselli* was erroneously excluded from the Zonation prioritizations. Because subsequent analysis demonstrated that prioritizations including *P. larselli* showed little variation from those without the species (correlation 0.9935 (scenario 5) to 0.9997 (scenario 1)), we chose not to repeat the complete analysis with the additional species due to its complexity.

Table S2. List of candidate models compared in Maxent modeling of old-growth associated species in the Pacific Northwest.

Model #	Model	Model Category
1	mature	Vegetation class
2	maturefocal	Vegetation class
3	og	Vegetation class
4	ogfocal	Vegetation class
5	mature, og	Vegetation class
6	maturefocal, mature	Vegetation class
7	og, ogfocal	Vegetation class
8	og, ogfocal, maturefocal	Vegetation class
9	mature, ogfocal, maturefocal	Vegetation class
10	maturefocal, mature, cbiog, cbiogfocal	Vegetation class
11	meanannprecip	Climate
12	standevannprecip	Climate
13	januaryprecip	Climate
14	springprecip	Climate
15	julyprecip	Climate
16	januarytemp	Climate
17	springtemp	Climate
18	julytemp	Climate
19	meananntemp	Climate
20	standevanntemp	Climate
21	meanannprecip, standevannprecip	Climate
22	januaryprecip, januarytemp	Climate
23	springprecip, springtemp	Climate
24	julyprecip, julytemp	Climate
25	meanannprecip, meananntemp	Climate
26	meanannprecip, standevannprecip, meananntemp, standevanntemp	Climate
27	meanannprecip, standevannprecip, meananntemp	Climate
28	meanannprecip, meananntemp, standevanntemp	Climate
29	januaryprecip, julyprecip	Climate
30	januarytemp, julytemp	Climate

31	januaryprecip, julyprecip, januarytemp, julytemp	Climate
32	springprecip, springtemp, januaryprecip	Climate
33	springprecip, springtemp, januarytemp	Climate
34	springprecip, springtemp, julyprecip	Climate
35	springprecip, springtemp, julytemp	Climate
36	meanannprecip, standevannprecip, meananntemp	Climate
37	meanannprecip, standevannprecip, januaryprecip	Climate
38	meanannprecip, standevannprecip, julyprecip	Climate
39	meanannprecip, standevannprecip, julytemp	Climate
40	meananntemp, standevanntemp	Climate
41	Combination of best vegetation and best climate model	Combination

Abbreviations of variables:

mature - Proportion mature forest at 1 ha resolution

maturefocal - Proportion mature forest within 1 km² moving window

og - Proportion old-growth forest at 1 ha resolution

ogfocal - Proportion old-growth forest within 1 km² moving window

meanannprecip - mean annual precipitation (mm/day)

standevannprecip - mean annual standard deviation in precipitation

januaryprecip - mean January (wettest, coldest month) precipitation

springprecip - mean "spring" (March, April, May) precipitation

julyprecip - mean July (driest, hottest month) precipitation

meananntemp - mean annual temperature (degrees Celsius)

standevanntemp - mean annual standard deviation in temperature

januarytemp - mean January temperature

springtemp - mean "spring" (March, April, May) temperature

julytemp - mean July temperature

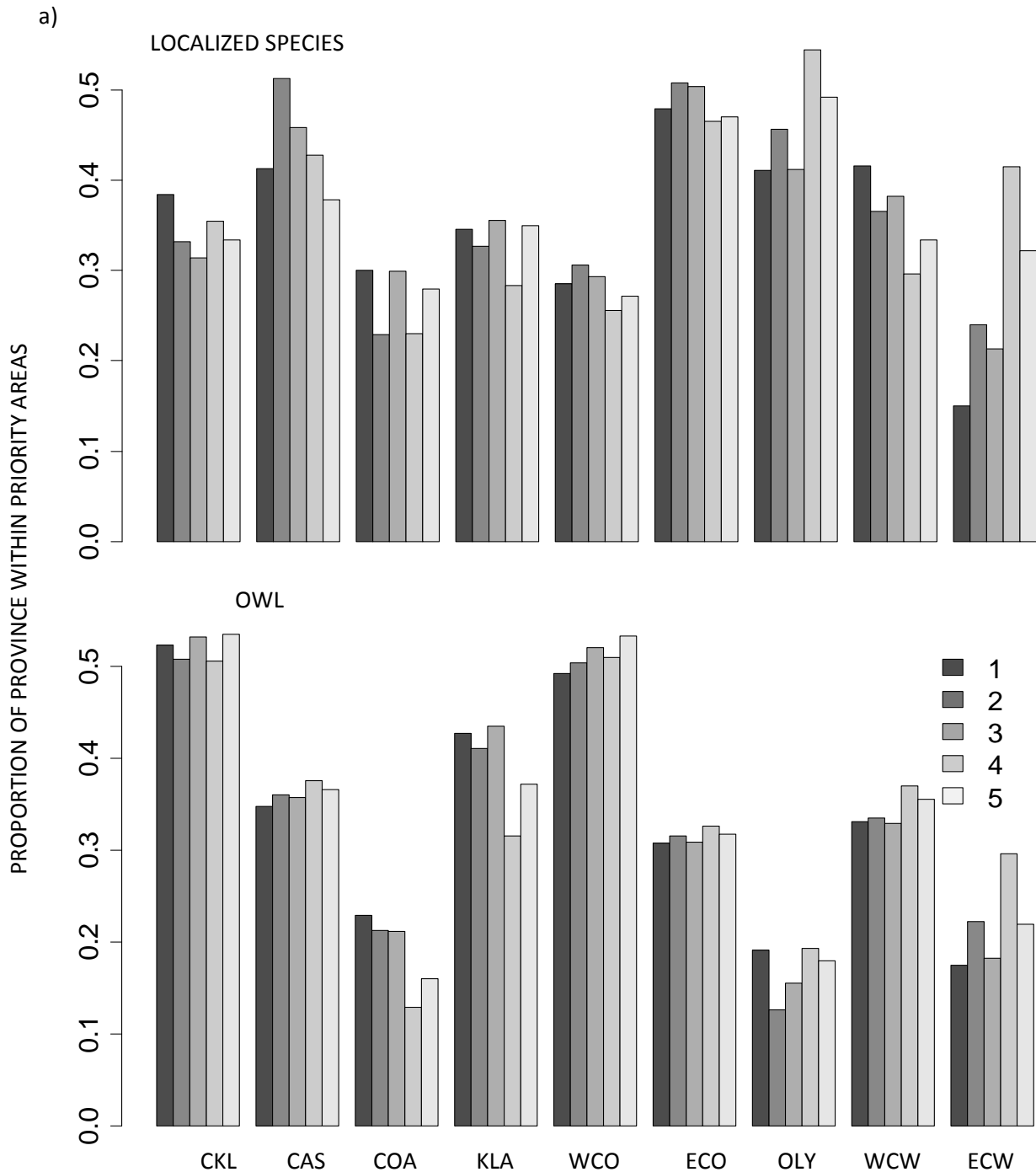
Table S3. Patterns of change in the proportion of each ecoprovince within priority areas for old-growth associated species in the Pacific Northwest as identified by the Zonation solutions. Ecoprovince abbreviations are as used in Figure 1.

SIMULATION PRIORITIES:	LOCALIZED SPECIES	OWL
PATTERN IN UNCONSTRAINED SOLUTIONS		
1) Stable	WCO, ECO	CKL, CAS, ECO, WCO
2) Decreasing	CKL, WCW	COA, KLA
3) Increasing	OLY, ECW	WCW, ECW
4) Increasing to 2025, then decreasing to 2075	CAS	
5) Decreasing to 2025, then increasing to 2075		OLY
6) Stable with interactions, unstable without	COA, KLA	
PATTERN IN CONSTRAINED SOLUTIONS		
1) Stable	CKL	CKL, CAS, ECO, WCW
2) Decreasing	COA, KLA, WCW	COA
3) Increasing	WCO, ECO, ECW	WCO
4) Increasing to 2025, then decreasing to 2075	CAS	
5) Decreasing to 2025, then increasing to 2075	OLY	OLY
6) Stable with interactions, unstable without	COA, KLA, WCW	KLA, ECW

Table S4. Correlations between priority rankings produced by Zonation runs based on localized species and on Northern Spotted Owl habitat in the Pacific Northwest. Unconstrained solutions identified priority areas irrespective of management category, whereas constrained solutions could reallocate reserve status within the matrix and LSR categories only.

SCENARIOS	CORRELATION	
	UNCONSTRAINED	CONSTRAINED
1	0.363	0.150
2	0.324	0.121
3	0.433	0.207
4	0.301	0.043
5	0.459	0.172
1 - Additive Benefit	0.811	0.343

Figure S1. Proportion of each ecoprovince within the Zonation solution (network of priority areas) under a) unconstrained, and b) constrained composite-goal scenarios 1 (current habitat), 2 (near-future habitat), 3 (interacting current and near-future habitat), 4 (distant future habitat), and 5 (interacting current and distant future habitat). Constrained Zonation solutions could reallocate reserve status within the matrix and LSR categories only whereas unconstrained solutions allocated reserve areas irrespective of existing management category.



b)

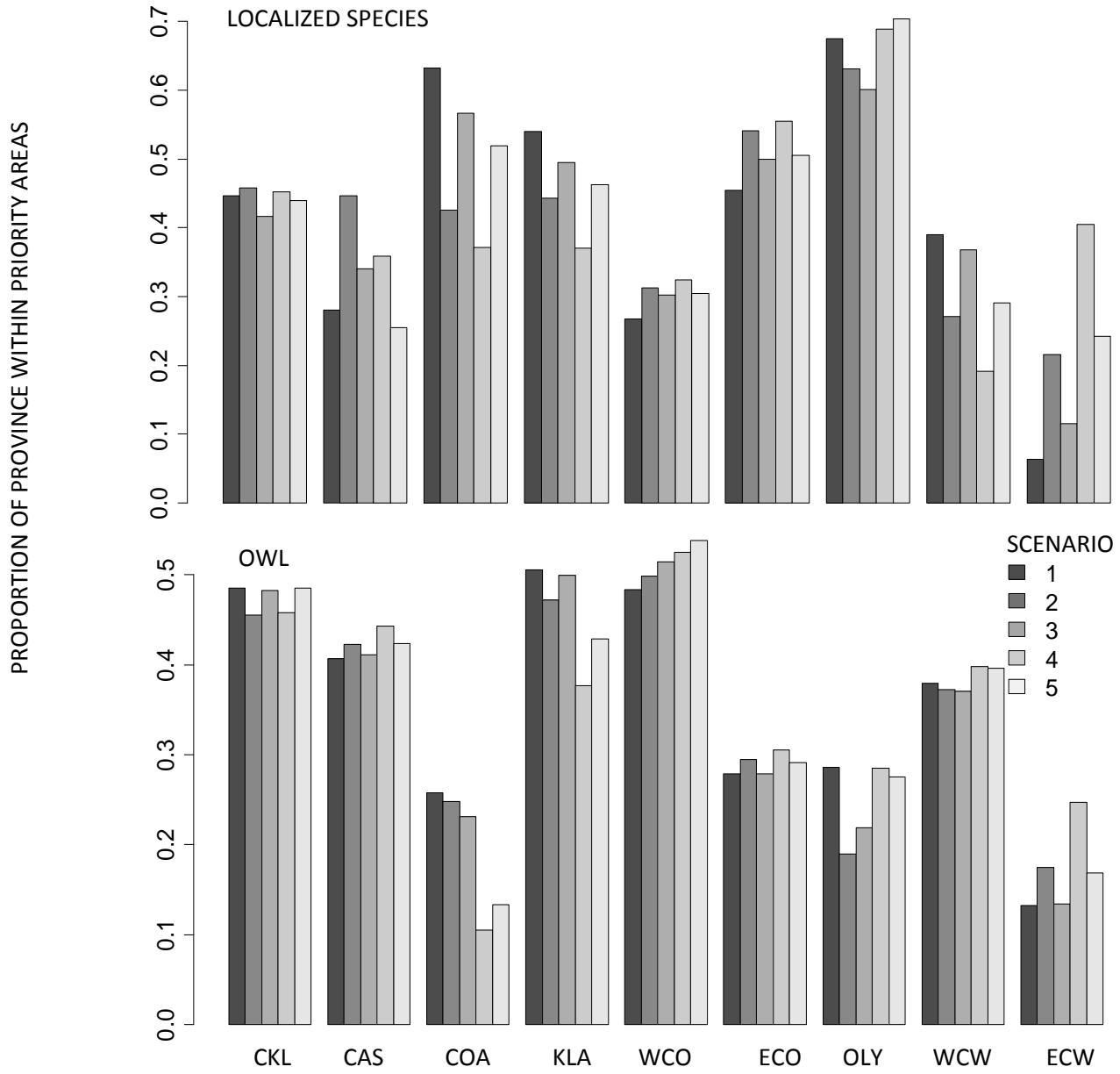


Figure S2. Distribution of priority areas identified by Zonation for conservation of the Northern Spotted Owl and 130 localized species under unconstrained scenarios 1 (current habitat), 2 (near-future habitat), 3 (interacting current and near-future habitat), 4 (distant future habitat), and 5 (interacting current and distant future habitat). Unconstrained Zonation solutions could reallocate reserve status irrespective of existing management category. Area of the reserve network was set equal to that of the current system of congressional reserves and late-successional reserves (~28% of analysis area).

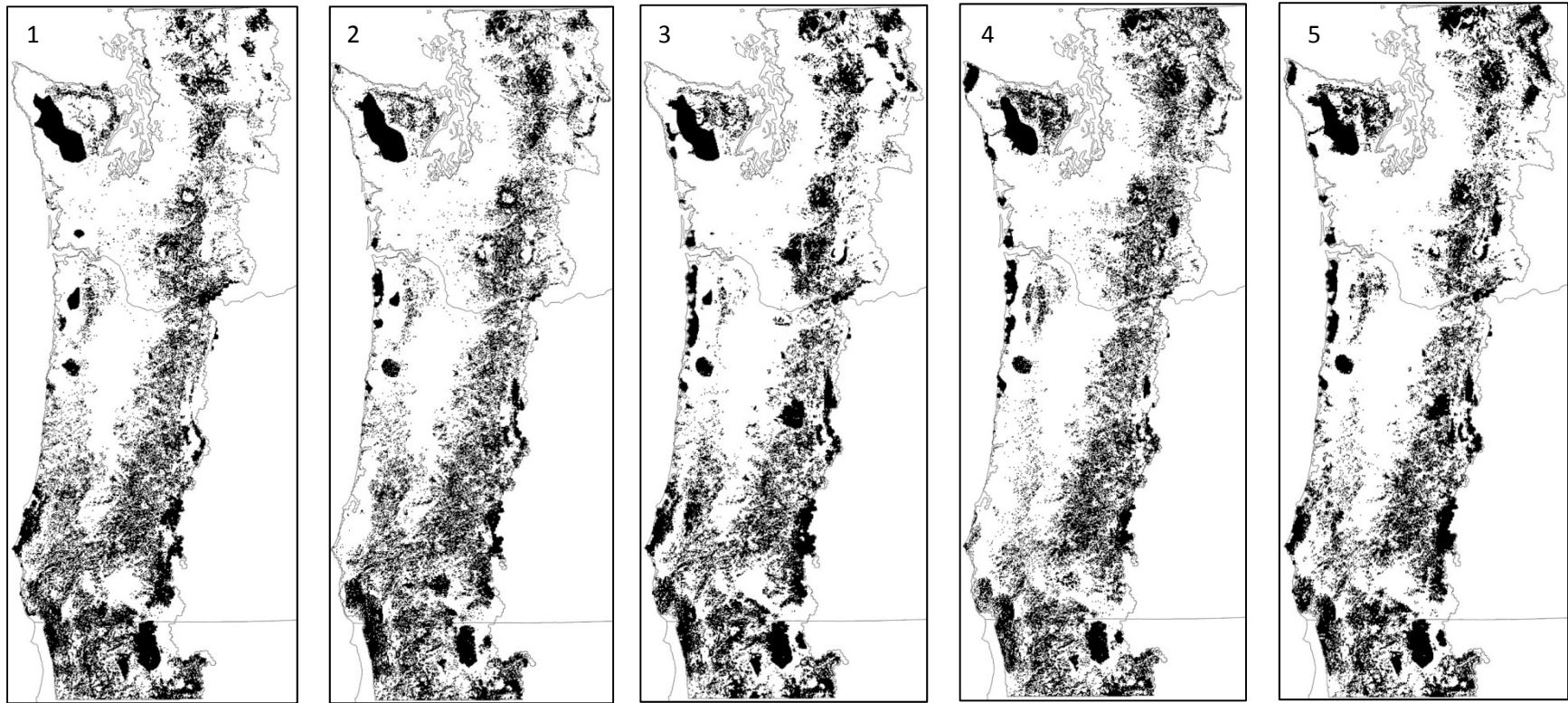


Figure S3. Distribution of priority areas identified by Zonation for conservation of the Northern Spotted Owl and 130 localized species under constrained scenarios 1 (current habitat), 2 (near-future habitat), 3 (interacting current and near-future habitat), 4 (distant future habitat), and 5 (interacting current and distant future habitat). Constrained Zonation solutions could reallocate reserves equal in area to the extent of LSR (13.9% of analysis area) within the matrix and LSR categories only. Total area of the reserve network, as in Figure S3, was set equal to that of the current system of congressional reserves and late-successional reserves (~28% of analysis area).

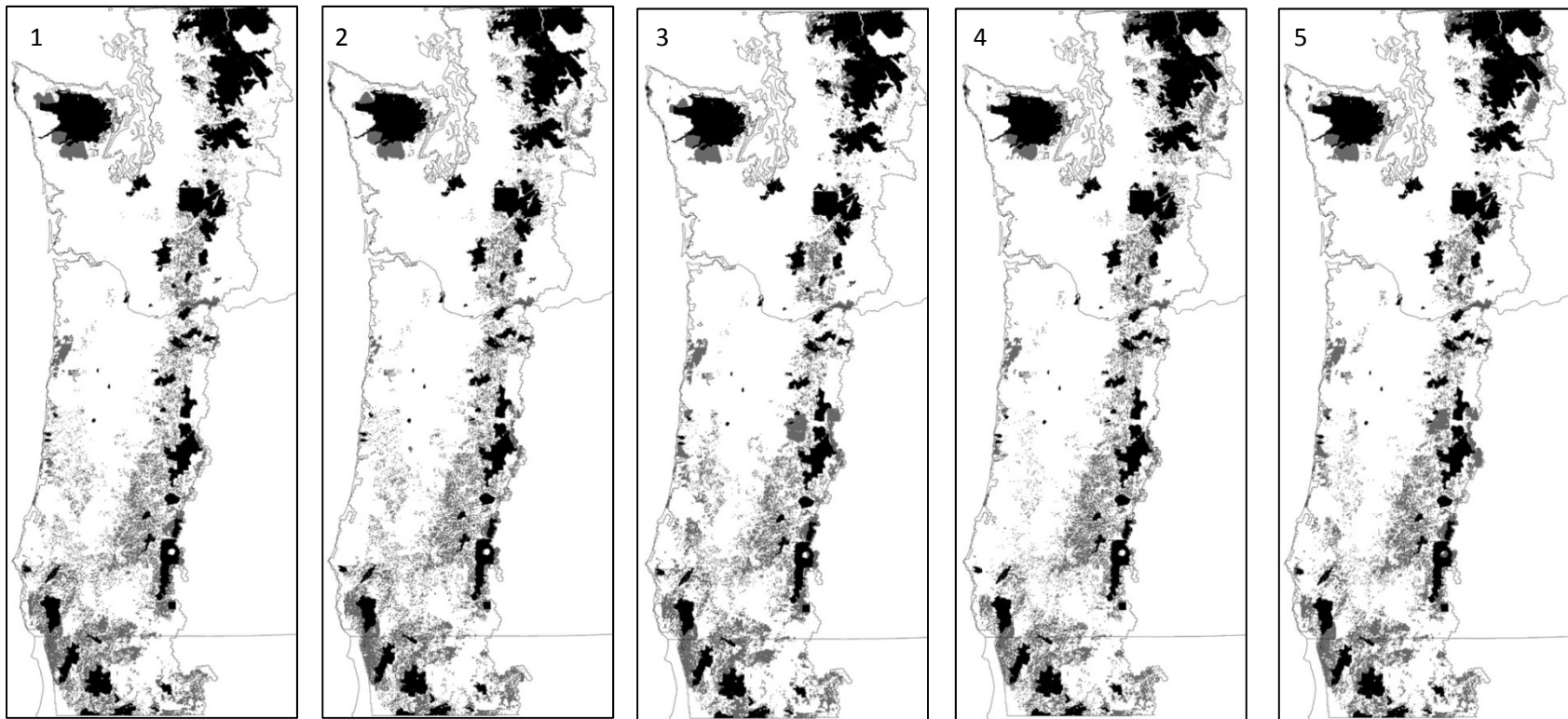


Figure S4. The mean proportion of the Zonation solution required to capture 90% of the predicted occurrence value of a species contained within the entire Zonation solution. The average was taken over all 131 species considered. Results from three scenarios (scenario 1 (current), scenario 2 (near-future), scenario 4 (distant future), and scenario 1 using an additive-benefit selection function) are shown under three contrasting Zonation goals sets: localized species only, owl only, and composite goals. A solution that requires a larger proportion of the total solution to encompass 90% of the total value per species is opting against core areas of high occurrence value for particular species in favor of larger areas of moderate value for multiple species.

