

## APPENDIX C. Additional tables and figures.

TABLE C1. Bird- or habitat-specific, point-level variables used in state process models.

<b>Variable</b>	<b>Category</b>	<b>Description</b>	<b>Species</b>	<b>Mean</b>	<b>Range</b>
<i>salt_pct</i>	Map	Percentage of 100 m radius landscape that is “regularly flooded”, or approximately saltmarsh.	BTGR, CLRA, LEBI, MAWR, SESP, XXRA	25.5	[0, 98.3]
<i>brack_pct</i>	Map	Percentage of 100 m radius landscape that is “irregularly flooded”, or approximately brackish marsh.	BTGR, CLRA, COYE, KIRA, LEBI, MAWR, RWBL, SESP, XXRA	14.5	[0, 91.9]
<i>fresh_pct</i>	Map	Percentage of 100 m radius landscape that is freshwater marsh.	COYE, KIRA, XXRA	6.5	[0, 56.9]
<i>swamp_pct</i>	Map	Percentage of 100 m radius landscape that is tidal swamp.	YTWA	20.2	[0, 100]
<i>fresh_ed</i>	Map	Edge density of freshwater marsh class, within 200 m radius.	YTWA	20.6	[0, 156.3]
<i>swamp_ed</i>	Map	Edge density of tidal swamp class, within 200 m radius.	DOWO, HOWA, NOPA, PIWO, PROW, RBWO, REVI, SUTA, YBCU, YTWA	34.4	[0, 178.5]
<i>water_ed</i>	Map	Edge density of water class, within 200 m radius.	BTGR, CLRA, COYE, LEBI, MAWR, RWBL, SESP	0.009	[0, 0.021]
<i>ba_sum_live</i>	Field	Total basal area in m <sup>2</sup> of living trees, averaged over <i>circles</i> .	BTGR, COYE, DOWO, HOWA, KIRA, LEBI, NOPA, PIWO, PROW, RBWO, REVI, RWBL, SUTA, YBCU, YTWA	0.98	[0, 9.47]
<i>ba_sum_snag</i>	Field	Total basal area in m <sup>2</sup> of standing dead trees, averaged over <i>circles</i> .	BTGR, COYE, DOWO, HOWA, LEBI, NOPA, PIWO, PROW, RBWO, REVI, RWBL, SUTA, YBCU	0.06	[0, 0.74]
<i>ba_med_live</i>	Field	Median basal area in cm <sup>2</sup> of living trees, over all <i>circles</i> .	DOWO, HOWA, KIRA, NOPA, PIWO, PROW, RBWO, REVI, SUTA, YBCU, YTWA	19.9	[0, 56.9]
<i>ba_med_snag</i>	Field	Median basal area in cm <sup>2</sup> of dead trees, over all <i>circles</i> .	DOWO, PIWO, RBWO, REVI, SUTA, YBCU	14.3	[0, 292.6]
<i>denscl_circ</i>	Field	Percentage of density cloth that	BTGR, CLRA, COYE,	40.8	[11.0,

		was obscured, averaged over all observations within <i>circles</i> .	HOWA, KIRA, LEBI, MAWR, NOPA, PROW, RWBL, SESP, XXRA		81.8]
<i>denscl_tb</i>	Field	Percentage of density cloth that was obscured, averaged over all observations within the <i>topbank</i> .	BTGR, CLRA, COYE, KIRA, LEBI, MAWR, RWBL, SESP, XXRA	69.0	[9.5, 100.0]
<i>densio</i>	Field	Canopy density, as a percentage, averaged over all observations within <i>circles</i> .	BTGR, COYE, DOWO, HOWA, KIRA, NOPA, PIWO, PROW, RBWO, REVI, RWBL, SUTA, XXRA, YBCU, YTWA	20.3	[0, 91]
<i>sparalte</i>	Field	Average of maximum cover values within <i>circles</i> , of <i>Spartina alterniflora</i> .	CLRA, MAWR, SESP, XXRA	2.0	[0, 4.7]
<i>juncroem</i>	Field	Average of maximum cover values within <i>circles</i> , of <i>Juncus roemerianus</i> .	CLRA, MAWR, SESP	0.76	[0, 5]
<i>sparcyno</i>	Field	Average of maximum cover values within <i>circles</i> , of <i>Sparalte cynosuroides</i> .	COYE, KIRA, MAWR, XXRA	0.43	[0, 5]
<i>zizamili</i>	Field	Average of maximum cover values within <i>circles</i> , of <i>Zizania miliacea</i> .	KIRA, XXRA	0.8	[0, 5]
<i>can_spp</i>	Field	Total number of species observed in <i>canopy</i> strata of <i>circles</i> .	DOWO, HOWA, NOPA, PIWO, PROW, RBWO, REVI, SUTA, YBCU	1.5	[0, 8]
<i>upp_spp</i>	Field	Total number of species observed in <i>upper understory</i> strata of <i>circles</i> .	DOWO, HOWA, NOPA, PIWO, PROW, RBWO, REVI, SUTA, YBCU	1.8	[0, 9]
<i>low_spp</i>	Field	Total number of species observed in <i>lower understory</i> strata of <i>circles</i> .	DOWO, HOWA, NOPA, PIWO, PROW, RBWO, REVI, SUTA, YBCU	2.1	[0, 11]

*Notes:* All variables are continuous. For each predictor, codes are shown for species having that

predictor in the initial set of candidate state process covariates.

TABLE C2. Best covariates, for considered species.

Species	Component	Variable Name	$\bar{s}$	Type
Least Bittern	$p$	<i>tide</i>	0.90	Visit
	$\psi$	<i>slamm_2</i>	0.97	Map
		<i>swamp</i>	0.96	Map
		<i>water_ed</i>	0.79	Map
		<i>ba_sum_snag</i>	0.58	Field

		<i>salinity</i>	0.54	Field
		<i>dist_for</i>	0.53	Map
King Rail	$p$	<i>noise</i>	0.59	Visit
		<i>slamm_2</i>	0.80	Map
		<i>swamp</i>	0.75	Map
		<i>comm_2</i>	0.66	Field
		<i>denscl_tb</i>	0.57	Field
		<i>noise</i>	0.29	Visit
Clapper Rail	$\psi$	<i>sparalte</i>	1.00	Field
		<i>brack</i>	0.95	Map
		<i>comm_2</i>	0.80	Field
		<i>tide</i>	0.96	Visit
Clapper / King Rail	$p$	<i>slamm_2</i>	0.99	Map
		<i>denscl_tb</i>	0.88	Field
		<i>zizamili</i>	0.87	Field
		<i>max_strat</i>	0.86	Field
		<i>comm_2</i>	0.75	Field
		<i>dist_for</i>	0.58	Map
		<i>denscl_circ</i>	0.55	Field
		<i>julian</i>	1.00	Daily
Yellow-billed Cuckoo	$\psi$	<i>upp_spp</i>	0.99	Field
		<i>comm_2</i>	0.89	Field
		<i>ba_med_live</i>	0.64	Field
		<i>ba_sum_snag</i>	0.60	Field
		<i>salinity</i>	0.57	Field
		<i>brack</i>	0.56	Map
		<i>fresh</i>	0.51	Map
		<i>julian</i>	0.97	Daily
Red-bellied Woodpecker	$p$	<i>low_spp</i>	0.99	Field
		<i>dist_upl</i>	0.81	Map
		<i>salinity</i>	0.68	Field
		<i>ba_med_snag</i>	0.67	Field
		<i>chan_width</i>	0.60	Field
		<i>rel_elev</i>	0.55	Map
		<i>brack</i>	0.53	Map
Downy Woodpecker	$p$	<i>julian</i>	0.82	Daily
		<i>densio</i>	0.98	Field
		<i>ba_med_live</i>	0.71	Field
		<i>brack</i>	0.53	Map
Pileated Woodpecker	$p$	<i>wind</i>	0.84	Visit
		<i>low_spp</i>	0.99	Field
		<i>dist_dev</i>	0.98	Map
		<i>brack</i>	0.63	Map
		<i>fresh</i>	0.53	Map
Red-eyed Vireo	$\psi$	<i>wind</i>	0.96	Visit
		<i>ba_sum_live</i>	1.00	Field
		<i>quad_spp</i>	0.98	Field
		<i>brack</i>	0.51	Map

Marsh Wren	$p$	<i>precip</i>	0.23	Daily
	$\psi$	<i>sparalte</i>	1.00	Field
		<i>dist_upl</i>	0.97	Map
		<i>ht_mean</i>	0.90	Field
		<i>water_pct</i>	0.65	Map
		<i>denscl_circ</i>	0.61	Field
		<i>rel_elev</i>	0.58	Field
Prothonotary Warbler	$p$	<i>julian</i>	0.73	Daily
	$\psi$	<i>ba_sum_live</i>	1.00	Field
		<i>salt</i>	0.62	Map
		<i>brack</i>	0.51	Map
Common Yellowthroat	$p$	<i>previous</i>	0.77	Daily
	$\psi$	<i>comm_2</i>	1.00	Field
		<i>water_pct</i>	1.00	Map
		<i>fresh_pland</i>	0.99	Map
		<i>dist_for</i>	0.97	Map
		<i>region_sd</i>	0.54	Field
Hooded Warbler	$p$	<i>precip</i>	0.49	Daily
	$\psi$	<i>densio</i>	0.83	Field
		<i>ht_mean</i>	0.73	Field
		<i>salt</i>	0.70	Map
		<i>shr_spp</i>	0.58	Field
		<i>brack</i>	0.51	Map
Northern Parula	$p$	<i>noise</i>	1.00	Visit
	$\psi$	<i>slamm_1</i>	1.00	Map
		<i>comm_2</i>	0.85	Field
		<i>dist_upl</i>	0.79	Map
		<i>brack</i>	0.71	Map
		<i>ba_sum_snag</i>	0.60	Field
		<i>gro_spp</i>	0.53	Field
Yellow-throated Warbler	$p$	<i>julian</i>	0.70	Daily
	$\psi$	<i>max_strat</i>	1.00	Field
		<i>fresh_ed</i>	0.81	Map
		<i>dist_upl</i>	0.77	Map
		<i>total_len</i>	0.70	Field
		<i>dist_for</i>	0.51	Map
Seaside Sparrow	$p$	<i>noise</i>	0.98	Visit
	$\psi$	<i>sparalte</i>	1.00	Field
		<i>dist_for</i>	0.97	Map
		<i>rel_elev</i>	0.89	Field
		<i>denscl_circ</i>	0.83	Field
Summer Tanager	$p$	<i>julian</i>	0.71	Daily
	$\psi$	<i>max_strat</i>	0.97	Field
		<i>ba_sum_snag</i>	0.82	Field
		<i>dist_for</i>	0.60	Map
		<i>brack</i>	0.56	Map
		<i>dist_dev</i>	0.52	Map
Red-winged Blackbird	$p$	<i>noise</i>	0.87	Visit
	$\psi$	<i>denscl_circ</i>	0.98	Field

			<i>slamm_2</i>	0.97	Map
			<i>slamm_1</i>	0.95	Map
			<i>dist_dev</i>	0.60	Map
			<i>fresh</i>	0.53	Map
Boat-tailed Grackle	<i>p</i>		<i>julian</i>	0.48	Daily
			<i>slamm_1</i>	1.00	Map
	$\psi$		<i>comm_2</i>	0.87	Field
			<i>dist_for</i>	0.57	Map
			<i>slamm_2</i>	0.54	Map
			<i>region_sd</i>	0.53	Field

Notes: For the state process model ( $\psi$ ), predictors are shown which occurred in more than half the iterations over three MCMC chains, in the second round of variable selection using the refined (uncorrelated) set of predictors. That is, the posterior mean for the associated indicator variable  $\bar{s} > 0.5$ . For the detection process model (*p*), the best predictor is given even if  $\bar{s} < 0.5$ .

TABLE C3. Best occupancy models, from each round of model selection (*Full* set, *Map-only*, and SLAMM *Class*) for species with at least one model with a cross-validation Positive Predictive Value (PPV) greater than 0.70.

Species	Set	<i>p</i> Terms	$\psi$ Terms	Type	K	$\bar{D}$	$DIC_v$	AUC	PPV	NPV	cut
Red-eyed Vireo	<i>F</i>	Int(+), <i>wind</i> (-)	Int(-), <i>ba sum live</i> (+), <i>quad spp</i> (+)	Fld	5	96.11	105.8	0.97	0.71	0.98	0.40
	<i>M</i>	Int(+), <i>wind</i> (-)	Int(-), <i>slamm_1</i> (+), <i>dist_for</i> (+), <i>brack</i>	...	6	104.38	142.6	0.92	0.54	0.97	0.21
	<i>C</i>	Int(+), <i>wind</i> (-)	Int(-), <i>swamp</i> (+), <i>fresh</i> (+)	...	5	102.04	134.8	0.91	0.55	0.97	0.45
Marsh Wren	<i>F</i>	Int(+), <i>prep</i>	<i>sparalte</i> (+), <i>dist_upl</i> (+)	Mix	5	131.60	136.7	0.96	0.92	0.94	0.70
	<i>M</i>	Int(+), <i>prev</i> (-)	<i>slamm_1</i> (-), <i>dist_upl</i> (+), <i>chan width</i> (-)	...	6	129.54	137.6	0.87	0.78	0.82	0.48
	<i>C</i>	Int(+), <i>prev</i> (-)	Int(-), <i>salt</i> (+), <i>brack</i> (+)	...	5	130.12	143.0	0.89	0.83	0.88	0.61
Seaside	<i>F</i>	Int(+),	Int(-),	Mix	7	116.72	132.0	0.95	0.77	0.95	0.51

Sparrow		<i>noise(-)</i>	<i>sparalte(+), dist_for(+), rel_elev(+), denscl_circ(-)</i>								
	<i>M</i>	<i>Int(+), noise(-)</i>	<i>Int(-), slamm_1(-), dist_for(+)</i>	...	5	114.07	138.1	0.94	0.77	0.94	0.41
	<i>C</i>	<i>Int(+), noise(-)</i>	<i>Int(-), brack(+), salt(+)</i>	...	5	120.25	164.1	0.89	0.65	0.91	0.43
Northern Parula	<i>F</i>	<i>Int(+), noise(-)</i>	<i>slamm_1(+), comm_2(-)</i>	Mix	5	93.21	98.47	0.92	0.76	0.92	0.30
	<i>M</i>	<i>Int(+), noise(-)</i>	<i>slamm_1(+)</i>	...	4	94.37	105.5	0.94	0.77	0.94	0.53
	<i>C</i>	<i>Int(+), noise(-)</i>	<i>Int(-), swamp(+), fresh(+)</i>	...	5	94.71	106.2	0.94	0.80	0.94	0.46
Red-bellied Woodpecker	<i>F</i>	<i>Int(+), julian(+)</i>	<i>low_spp(+)</i>	Fld	4	142.57	163.5	0.92	0.70	0.94	0.43
	<i>M</i>	<i>Int(+), julian(+)</i>	<i>slamm_1(+)</i>	...	4	143.30	166.8	0.92	0.72	0.94	0.41
	<i>C</i>	<i>Int(+), julian(+)</i>	<i>Int(-), swamp(+), fresh(+)</i>	...	5	144.69	173.8	0.92	0.70	0.94	0.41
Clapper Rail	<i>F</i>	<i>Int(+), noise</i>	<i>sparalte(+), brack(+), comm_2(+)</i>	Mix	6	233.30	258.2	0.87	0.76	0.82	0.66
	<i>M</i>	<i>Int(+)</i>	<i>Int(+), slamm_1(-)</i>	...	3	242.27	256.6	0.84	0.73	0.80	0.68
	<i>C</i>	<i>Int(+), noise(-)</i>	<i>Int(-), brack(+), salt(+)</i>	...	5	231.40	251.0	0.86	0.74	0.83	0.65
Boat-tailed Grackle	<i>F</i>	<i>Int(+), julian(+)</i>	<i>Int(+), slamm_1(-), comm_2(+), dist_for(-), slamm_2(+)</i>	Mix	7	256.59	275.6	0.85	0.77	0.78	0.63
	<i>M</i>	<i>arm(F+, T+)</i>	<i>Int(+), slamm_1(-), slamm_2(+), dist_for(-)</i>	...	7	260.37	288.0	0.83	0.74	0.72	0.60
	<i>C</i>	<i>arm(F+, T+)</i>	<i>Int(-), brack(+), fresh(+), salt(+)</i>	...	7	265.21	304.7	0.81	0.72	0.73	0.63
Red-winged Blackbird	<i>F</i>	<i>Int(+), noise(+)</i>	<i>Int(+), denscl_circ(+), slamm_2(+), slamm_1(-), dist_dev(-), fresh</i>	Mix	8	246.65	276.4	0.83	0.82	0.70	0.64
	<i>M</i>	<i>Int(+), noise(+)</i>	<i>Int(+), slamm_2(+), slamm_1(-), dist_upl(-), chan_width(+)</i>	...	7	245.98	276.6	0.84	0.83	0.75	0.62
	<i>C</i>	<i>Int(+),</i>	<i>Int(+), brack(+),</i>	...	5	250.63	306.4	0.78	0.78	0.70	0.52

	<i>noise</i> (+)	<i>fresh</i>									
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*Notes:* Species are ordered by AUC of their best-scoring models. The predictor set is shown in the Set column as *F* = *Full* set, *M* = *Map*, *C* = *Class*. For *Full Set* models, the Type column indicates whether the  $\psi$  terms were Field- (“Fld”) or Map-derived, or a mix of both. *K* is the number of model parameters,  $\bar{D}$  the mean deviance, AUC the median AUC value from the cross-validation procedure (note these are probably inflated for rare species), PPV and NPV the median positive and negative predictive value; the cut column shows the median threshold for determining presence over the 50 iterations of cross-validation. Parenthetical indicators of effect direction are shown when the 90% credible interval (CrI) for that model term did not include zero. “Int” represents the intercept for a model component, and is only shown when its 90% CrI did not cross zero.

TABLE C4. Best occupancy models, from each round of model selection (*Full* set, *Map*-only, and SLAMM *Class*) for species with at least one model with a cross-validation Positive Predictive Value (PPV) less than 0.70.

Species	Set	<i>p</i> Terms	$\psi$ Terms	Type	<i>K</i>	$\bar{D}$	<b>DIC<sub>v</sub></b>	AUC	PPV	NPV	cut
Yellow-throated Warbler	<i>F</i>	Int(+), <i>julian</i> (-)	<i>max_strat</i> (+), <i>fresh_ed</i> (+)	Mix	5	166.35	202.4	0.89	0.65	0.94	0.44
	<i>M</i>	Int(+), <i>julian</i> (-)	<i>swamp_ed</i> (+), <i>dist_upl</i> (-)		5	170.41	199.3	0.90	0.62	0.92	0.29
	<i>C</i>	Int(+), <i>julian</i> (-)	Int(-), <i>swamp</i> (+), <i>fresh</i> (+)		5	167.36	218.9	0.85	0.60	0.92	0.38
Common Yellowthroat	<i>F</i>	Int(+), <i>prev</i> (+)	<i>comm_2</i> (+), <i>water_pct</i> (+), <i>fresh_pland</i> (+), <i>dist_for</i> (-), <i>region_sd</i> (-)	Fld	8	177.49	197.4	0.88	0.63	0.92	0.45
	<i>M</i>	Int(+), <i>prev</i> (+)	<i>chan_width</i> (+), <i>fresh_pland</i> (+),	...	7	180.63	205.4	0.89	0.63	0.92	0.37

			<i>dist_for(-), brack(+)</i>								
	<i>C</i>	<i>Int(+), prev(+)</i>	<i>Int(-), brack(+), fresh(+), swamp</i>	...	6	173.26	257.3	0.74	0.45	0.85	0.23
Clapper / King Rail	<i>F</i>	<i>Int(+), tide(H-)</i>	<i>slamm_2(+), denscl_tb(+), zizamili(-), max_strat(-)</i>	Mix	8	152.35	172.1	0.91	0.56	0.95	0.34
	<i>M</i>	<i>Int(+), tide(H-)</i>	<i>slamm_1(-), slamm_2(+)</i>	...	6	152.47	175.3	0.90	0.60	0.94	0.26
	<i>C</i>	<i>Int(+), tide(H-)</i>	<i>Int(-), salt, brack(+), fresh(+)</i>	...	7	153.35	185.4	0.89	0.58	0.95	0.22
Hooded Warbler	<i>F</i>	<i>prcp</i>	<i>Int(-), densio(+), ht_mean(-), salt, shr_spp</i>	Fld	7	34.82	55.71	0.98	0.58	1.0	0.24
	<i>M</i>	<i>prcp</i>	<i>Int(-), slamm_1(+)</i>	...	4	35.93	63.59	0.95	0.33	1.0	0.17
	<i>C</i>	<i>prcp</i>	<i>Int(-), swamp(+)</i>	...	4	35.23	60.4	0.90	0.15	1.0	0.11
Yellow- billed Cuckoo	<i>F</i>	<i>Int(-), julian(+)</i>	<i>Int(-), upp_spp(+), comm_2(-), ba_med.live(+), ba_sum_snag</i>	Fld	7	111.12	129.2	0.93	0.46	0.98	0.15
	<i>M</i>	<i>Int(-), julian(+)</i>	<i>Int(-), slamm_1(+), brack(-), dist_dev(+)</i>	...	6	109.77	153.1	0.92	0.44	0.98	0.17
	<i>C</i>	<i>Int(-), julian(+)</i>	<i>Int(-), swamp(+)</i>	...	4	113.58	176.5	0.85	0.31	0.97	0.10
Pileated Woodpec- ker	<i>F</i>	<i>Int(-), wind(-)</i>	<i>low_spp(+), dist_dev(-), brack, fresh</i>	Mix	7	179.23	196.0	0.87	0.42	0.95	0.34
	<i>M</i>	<i>Int(-), wind(-)</i>	<i>slamm_1(+), dist_dev(-), brack(-)</i>	...	6	180.36	202.5	0.87	0.41	0.95	0.31
	<i>C</i>	<i>wind(-)</i>	<i>Int(-), swamp(+), fresh(+)</i>	...	5	168.36	217.4	0.83	0.42	0.95	0.28
Prothono- tary Warbler	<i>F</i>	<i>Int(-), julian(+)</i>	<i>Int(-), ba_sum_live(+)</i>	Fld	4	72.71	93.7	0.93	0.35	0.98	0.11
	<i>M</i>	<i>Int(-), julian(+)</i>	<i>Int(-), slamm_1(+), dist_dev(+), brack, dist_for</i>	...	7	74.81	99.1	0.95	0.40	0.99	0.15
	<i>C</i>	<i>julian(+)</i>	<i>Int(-), swamp(+)</i>	...	4	71.44	131.2	0.90	0.26	0.98	0.13
Summer Tanager	<i>F</i>	<i>Int(-), julian(+)</i>	<i>Int(-), max_strat(+), ba_sum_snag(+) , dist_for(-)</i>	Mix	6	131.40	159.0	0.90	0.36	0.97	0.19
	<i>M</i>	<i>Int(-),</i>	<i>slamm_1(+),</i>	...	6	142.95	183.7	0.86	0.29	0.96	0.17

		<i>wind(-)</i>	<i>dist_upl(-), brack(-)</i>								
	<i>C</i>	<i>Int(-), julian(+) </i>	<i>Int(-), swamp(+), fresh(+) </i>	...	5	136.01	196.1	0.83	0.30	0.96	0.15
Least Bittern	<i>F</i>	<i>tide(M-)</i>	<i>Int(-), slamm_2(+), swamp(-), water_ed(+) </i>	Map	5	116.50	158.0	0.88	0.36	0.97	0.16
	<i>M</i>	<i>same as above</i>	<i>same model as above</i>	...	...	...	...	...	...	...	...
	<i>C</i>	<i>tide(M-)</i>	<i>Int(-), salt, brack(+), fresh(+) </i>	...	7	120.33	176.4	0.83	0.34	0.96	0.10
King Rail	<i>F</i>	<i>Int(-), noise(+) </i>	<i>slamm_2(+), swamp(-) </i>	Map	4	97.83	161.0	0.82	0.22	0.98	0.11
	<i>M</i>	<i>Int(-), noise(+) </i>	<i>salt(-), swamp(-) </i>	...	5	82.23	129.2	0.89	0.29	1.0	0.14
	<i>C</i>	<i>Int(-), noise(+) </i>	<i>Int(-), brack(+), fresh(+), swamp </i>	...	6	86.55	145.8	0.87	0.27	0.98	0.13
Downy Woodpecker	<i>F</i>	<i>Int(-), julian(+) </i>	<i>Int(-), densio(+) </i>	Fld	4	87.65	107.3	0.88	0.21	0.98	0.14
	<i>M</i>	<i>Int(-), julian(+) </i>	<i>Int(-), slamm_1(+) </i>	...	4	78.78	116.5	0.88	0.21	0.98	0.08
	<i>C</i>	<i>Int(-), julian(+) </i>	<i>Int(-), fresh, swamp(+) </i>	...	5	86.86	128.1	0.84	0.20	0.98	0.06

Notes: Columns and notation are as in Table C3. Here, however, species are ordered by median PPV and not median AUC.

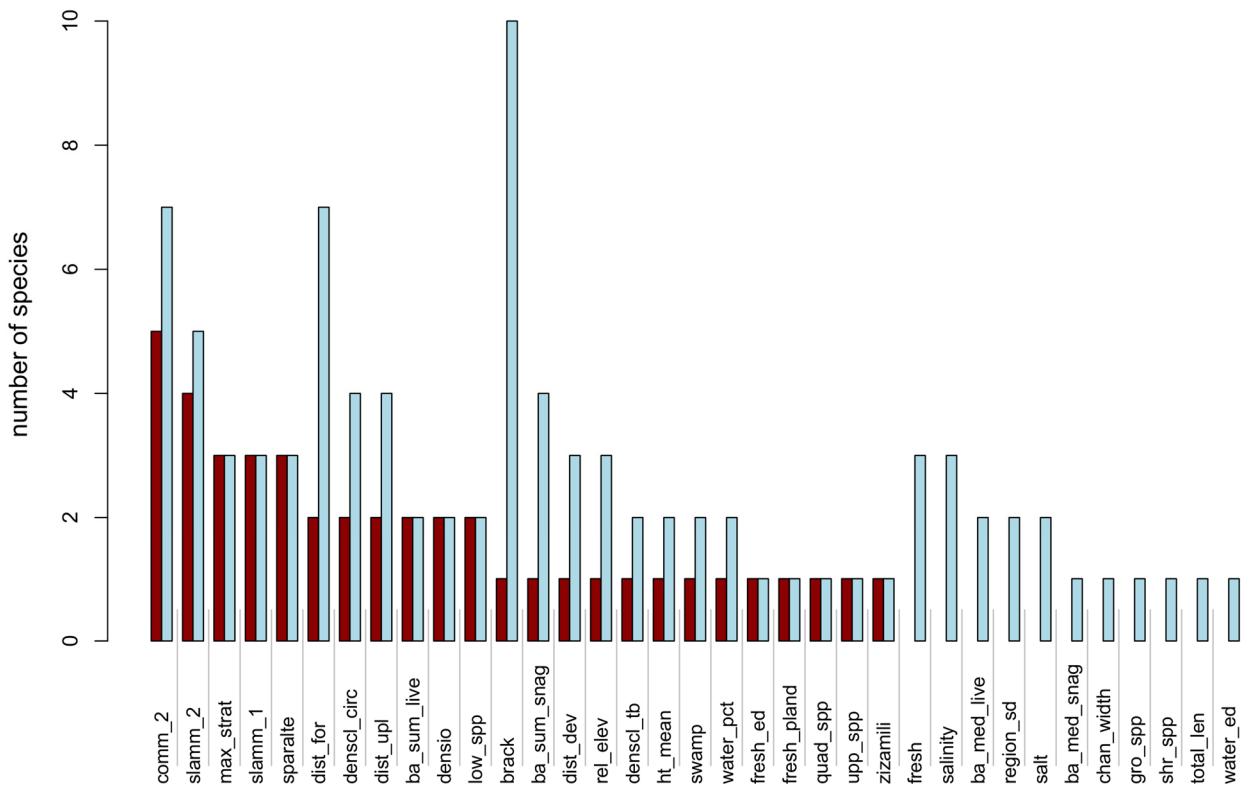


FIG. C1. Histograms of variable selection results in Table 5, at two different cutoff values of the Kuo-Mallick indicator variable  $s$ . Red bars show the total number of species for which each predictor was important at the  $s \geq 0.8$  level; blue bars show the totals at the  $s \geq 0.5$  level.