
Article

Remotely Sensed Spectral Indices as Proxies of the Structure of Urban Bird Communities

Vasileios J. Kontsiotis, Stavros Chatzigeorgiou, Evangelos Valsamidis, Eleftherios Nalmpantis, Pantelimon Xofis and Vasilios Liordos *

Department of Forest and Natural Environment Sciences, Democritus University of Thrace, 66100 Drama, Greece; vkontsiotis@neclir.duth.gr (V.J.K.); schatzigeorgiou@for.ihu.gr (S.C.); vagvals@yahoo.gr (E.V.); elnalba@neclir.duth.gr (E.N.); pxofis@neclir.duth.gr (P.X.)

* Correspondence: liordos@neclir.duth.gr

Table S1. Abundance, taxonomic, functional, and phylogenetic diversity indices of birds in the survey stations (ST) of Kavala. See Table 1 for index codes. ST numbering follows the map of Figure 1.

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12	ST13	ST14	ST15	ST16	ST17	ST18
Abundance	50	56	73	47	59	54	58	62	28	96	86	101	33	74	58	76	97	62
Chao1richness	17.06	13.12	11.00	12.07	12.49	13.16	18.47	14.00	5.00	10.49	9.49	10.25	6.48	12.25	8.98	15.00	6.00	12.39
PIE	0.85	0.81	0.86	0.81	0.78	0.87	0.91	0.88	0.71	0.80	0.81	0.73	0.71	0.86	0.80	0.87	0.57	0.81
ChaoShannon	2.45	2.30	2.27	2.25	2.10	2.49	2.84	2.52	1.49	1.96	1.93	1.75	1.59	2.30	1.87	2.51	1.18	2.14
FRic	77.19	69.87	65.14	37.68	95.00	20.41	6.07	105.29	0.73	66.94	4.42	47.68	1.02	82.46	3.30	46.56	15.05	29.34
FEve	0.65	0.68	0.60	0.74	0.67	0.71	0.74	0.76	0.69	0.59	0.74	0.60	0.60	0.70	0.76	0.70	0.39	0.74
FDiv	0.68	0.75	0.74	0.75	0.82	0.71	0.72	0.75	0.75	0.66	0.65	0.60	0.83	0.62	0.78	0.70	0.70	0.79
FDis	3.52	3.62	3.71	3.76	3.39	3.51	3.03	3.94	3.46	3.71	3.42	3.44	3.34	3.40	3.21	3.56	2.95	3.51
RaoQ	14.12	14.86	16.59	16.89	13.92	16.13	9.78	18.50	12.07	15.89	12.09	15.09	11.66	14.08	10.57	15.56	12.50	14.81
CED	5.84	5.82	5.52	5.94	5.53	6.01	6.39	5.52	5.45	5.11	4.99	5.69	5.10	6.02	5.33	7.34	5.01	5.77
maxCED	9.95	9.95	9.95	9.95	9.95	9.95	9.95	7.96	8.60	7.96	8.69	7.96	9.95	8.60	26.69	7.96	9.95	

Table S2. Migration status traits of 30 bird species used for the calculation of functional diversity indices. 0 = No, 1 = Yes.

	Migra	Reside		Migra	Reside
	nt	nt	nt	nt	nt
<i>Carduelis carduelis</i>	0	1	<i>Luscinia megarhynchos</i>	1	0
<i>Chloris chloris</i>	0	1	<i>Merops apiaster</i>	1	0
<i>Coccothraustes coccothraustes</i>	0	1	<i>Motacilla alba</i>	0	1
<i>Columba livia</i>	0	1	<i>Parus major</i>	0	1
<i>Corvus corone</i>	0	1	<i>Passer domesticus</i>	0	1
<i>Corvus monedula</i>	0	1	<i>Passer montanus</i>	0	1
<i>Cuculus canorus</i>	1	0	<i>Phylloscopus trochilus</i>	1	0
<i>Curruca cantillans</i>	1	0	<i>Pica pica</i>	0	1
<i>Curruca melanocephala</i>	0	1	<i>Picoides syriacus</i>	0	1
<i>Cyanistes caeruleus</i>	0	1	<i>Serinus serinus</i>	0	1
<i>Delichon urbica</i>	1	0	<i>Streptopelia decaocto</i>	0	1
<i>Fringilla coelebs</i>	0	1	<i>Sturnus vulgaris</i>	0	1
<i>Garrulus glandarius</i>	0	1	<i>Sylvia atricapilla</i>	0	1
<i>Hirundo rustica</i>	1	0	<i>Turdus merula</i>	0	1
<i>Iduna pallida</i>	1	0	<i>Upupa epops</i>	1	0

Table S3. Remotely sensed spectral indices at three buffer zones around each survey station (ST) in Kavala. See Table 2 for index codes. ST numbering follows the map of Figure 1.

	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10	ST11	ST12	ST13	ST14	ST15	ST16	ST17	ST18
<i>50 m buffer</i>																		
NDVI Mean	0.27	0.33	0.26	0.26	0.40	0.32	0.46	0.38	0.23	0.17	0.20	0.28	0.22	0.21	0.20	0.35	0.20	0.30
NDVI SD	0.14	0.16	0.16	0.13	0.14	0.15	0.06	0.15	0.16	0.10	0.14	0.20	0.08	0.09	0.09	0.09	0.11	0.12
GNDVI Mean	0.28	0.35	0.28	0.28	0.41	0.33	0.47	0.41	0.25	0.19	0.23	0.28	0.28	0.26	0.28	0.38	0.23	0.35
GNDVI SD	0.12	0.15	0.15	0.12	0.12	0.14	0.04	0.13	0.14	0.10	0.13	0.18	0.08	0.08	0.08	0.07	0.11	0.11
EVI2_Mean	0.44	0.57	0.44	0.42	0.69	0.54	0.80	0.66	0.38	0.27	0.33	0.49	0.34	0.33	0.32	0.58	0.31	0.50
EVI2 SD	0.27	0.31	0.30	0.24	0.27	0.30	0.12	0.31	0.30	0.17	0.24	0.38	0.15	0.15	0.15	0.17	0.19	0.23
SAVI Mean	0.40	0.50	0.40	0.39	0.60	0.48	0.68	0.57	0.34	0.26	0.30	0.42	0.32	0.31	0.31	0.52	0.29	0.45
SAVI SD	0.21	0.24	0.24	0.20	0.21	0.23	0.08	0.23	0.24	0.15	0.21	0.30	0.13	0.13	0.13	0.14	0.16	0.18
ARVI Mean	0.18	0.23	0.16	0.15	0.29	0.21	0.31	0.26	0.13	0.08	0.10	0.20	0.08	0.08	0.06	0.21	0.08	0.17
ARVI SD	0.14	0.16	0.16	0.12	0.14	0.15	0.06	0.17	0.16	0.09	0.13	0.19	0.09	0.09	0.10	0.09	0.09	0.12
NDMI Mean	0.06	0.09	0.05	0.05	0.10	0.06	0.08	0.09	0.06	0.01	0.05	0.10	-0.02	-0.01	-0.03	0.08	0.06	0.04
NDMI SD	0.06	0.07	0.08	0.05	0.08	0.07	0.04	0.08	0.08	0.05	0.08	0.10	0.05	0.06	0.04	0.04	0.07	0.06
NDBI Mean	-0.18	-0.25	-0.19	-0.18	-0.25	-0.22	-0.29	-0.23	-0.20	-0.11	-0.20	-0.27	-0.09	-0.09	-0.07	-0.26	-0.20	-0.18
NDBI SD	0.08	0.09	0.11	0.07	0.11	0.09	0.05	0.10	0.10	0.06	0.09	0.13	0.06	0.08	0.06	0.06	0.07	0.08
LST Mean	33.59	34.18	35.14	34.43	33.84	33.80	32.58	33.16	34.17	33.45	34.12	34.32	34.72	30.19	32.97	30.87	29.06	34.43
LST SD	0.14	0.10	0.58	0.19	0.10	0.14	0.25	0.57	0.16	0.92	0.34	0.21	0.13	0.63	0.28	1.03	0.86	0.08
<i>200 m buffer</i>																		
NDVI Mean	0.29	0.21	0.17	0.26	0.22	0.17	0.42	0.27	0.16	0.13	0.12	0.11	0.18	0.20	0.21	0.21	0.20	0.27
NDVI SD	0.16	0.12	0.11	0.13	0.13	0.12	0.14	0.15	0.10	0.10	0.12	0.11	0.10	0.13	0.11	0.13	0.12	0.16
GNDVI Mean	0.31	0.25	0.20	0.29	0.26	0.21	0.44	0.30	0.20	0.16	0.16	0.16	0.24	0.25	0.30	0.27	0.24	0.31
GNDVI SD	0.14	0.11	0.11	0.11	0.12	0.11	0.11	0.13	0.09	0.10	0.11	0.11	0.10	0.12	0.10	0.11	0.14	0.14
EVI2_Mean	0.49	0.34	0.27	0.42	0.35	0.26	0.74	0.44	0.24	0.21	0.19	0.17	0.28	0.32	0.33	0.34	0.32	0.46
EVI2 SD	0.31	0.22	0.20	0.23	0.23	0.22	0.30	0.29	0.16	0.18	0.20	0.19	0.17	0.24	0.20	0.23	0.21	0.31
SAVI Mean	0.43	0.31	0.26	0.38	0.33	0.25	0.63	0.40	0.23	0.20	0.18	0.17	0.27	0.30	0.31	0.31	0.30	0.41
SAVI SD	0.24	0.18	0.17	0.19	0.19	0.18	0.22	0.23	0.14	0.16	0.17	0.16	0.14	0.20	0.17	0.19	0.18	0.24
ARVI Mean	0.18	0.10	0.08	0.14	0.10	0.06	0.29	0.15	0.05	0.04	0.03	0.01	0.05	0.08	0.06	0.08	0.09	0.16
ARVI SD	0.16	0.12	0.11	0.12	0.12	0.12	0.15	0.16	0.09	0.10	0.11	0.11	0.10	0.14	0.13	0.14	0.12	0.16
NDMI Mean	0.06	0.02	0.02	0.02	0.02	0.00	0.09	0.03	0.00	0.01	0.01	-0.01	-0.02	0.01	-0.04	0.00	0.03	0.02
NDMI SD	0.08	0.07	0.06	0.06	0.06	0.08	0.09	0.08	0.06	0.06	0.08	0.09	0.05	0.07	0.07	0.09	0.07	0.08
NDBI Mean	-0.19	-0.13	-0.13	-0.14	-0.13	-0.10	-0.27	-0.15	-0.12	-0.12	-0.13	-0.09	-0.08	-0.11	-0.05	-0.11	-0.14	-0.16
NDBI SD	0.12	0.09	0.08	0.09	0.08	0.10	0.13	0.11	0.07	0.07	0.10	0.11	0.06	0.10	0.09	0.13	0.09	0.11
LST Mean	33.19	34.21	34.45	34.73	34.29	33.76	33.20	33.36	34.26	33.31	33.72	34.27	35.00	31.45	32.79	32.25	32.09	34.38
LST SD	0.66	0.18	1.49	0.65	0.37	0.99	0.68	1.06	0.23	1.37	1.06	0.51	0.43	1.39	1.08	1.54	1.40	0.44
<i>500 m buffer</i>																		
NDVI Mean	0.34	0.23	0.19	0.25	0.24	0.22	0.27	0.25	0.17	0.12	0.12	0.11	0.22	0.17	0.15	0.16	0.20	0.35
NDVI SD	0.16	0.14	0.12	0.14	0.15	0.16	0.16	0.16	0.12	0.10	0.10	0.09	0.15	0.13	0.11	0.10	0.14	0.20
GNDVI Mean	0.35	0.27	0.23	0.28	0.28	0.25	0.31	0.29	0.22	0.16	0.17	0.17	0.27	0.24	0.21	0.21	0.24	0.38
GNDVI SD	0.14	0.12	0.12	0.12	0.14	0.14	0.14	0.14	0.11	0.10	0.10	0.10	0.14	0.13	0.12	0.10	0.13	0.17
EVI2_Mean	0.57	0.38	0.30	0.40	0.40	0.36	0.46	0.42	0.27	0.19	0.18	0.18	0.36	0.27	0.23	0.25	0.32	0.62

EVI2 SD	0.32	0.27	0.23	0.26	0.29	0.30	0.31	0.30	0.21	0.17	0.17	0.16	0.29	0.23	0.20	0.18	0.26	0.40
SAVI Mean	0.50	0.35	0.29	0.37	0.36	0.33	0.41	0.38	0.26	0.18	0.18	0.17	0.33	0.26	0.22	0.24	0.29	0.53
SAVI SD	0.25	0.21	0.19	0.21	0.23	0.24	0.24	0.24	0.18	0.15	0.15	0.14	0.23	0.19	0.17	0.16	0.21	0.30
ARVI Mean	0.22	0.12	0.09	0.13	0.13	0.11	0.16	0.13	0.06	0.02	0.01	0.01	0.10	0.04	0.02	0.05	0.08	0.23
ARVI SD	0.16	0.14	0.13	0.14	0.15	0.15	0.16	0.16	0.12	0.10	0.10	0.10	0.15	0.13	0.11	0.11	0.14	0.19
NDMI Mean	0.07	0.03	0.02	0.02	0.03	0.03	0.04	0.03	0.00	0.00	-0.01	-0.02	0.00	-0.01	-0.03	-0.01	0.00	0.07
NDMI SD	0.08	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.07	0.07	0.08	0.07	0.07	0.09	0.10
NDBI Mean	-0.23	-0.15	-0.13	-0.14	-0.15	-0.15	-0.17	-0.15	-0.11	-0.11	-0.09	-0.08	-0.11	-0.07	-0.06	-0.09	-0.11	-0.23
NDBI SD	0.12	0.11	0.09	0.10	0.11	0.12	0.12	0.12	0.09	0.08	0.09	0.09	0.11	0.10	0.09	0.09	0.11	0.15
LST Mean	33.36	34.20	33.72	34.38	34.21	33.66	33.84	33.62	34.00	33.69	33.94	34.35	34.64	32.28	33.04	33.19	33.65	33.74
LST SD	1.11	0.95	1.58	0.68	0.90	1.48	0.88	0.96	0.82	0.98	1.10	0.97	0.67	1.66	1.57	1.54	1.49	1.07

Table S4. Full list of GLM models selected to assess the relationship of remotely sensed, at a 50 m buffer around survey stations, spectral indices on the abundance and taxonomic, functional, and phylogenetic diversity of the bird community in Kavala.

	LogLik	AIC _c	ΔAIC _c	w _i	Cumulative w _i
<i>Abundance</i>					
LST SD	-90.52	185.85	0.00	1.00	1.00
LST Mean	-102.52	209.84	23.99	0.00	1.00
NDMI SD	-105.82	216.44	30.59	0.00	1.00
GNDVI Mean	-106.23	217.26	31.41	0.00	1.00
SAVI Mean	-108.61	222.01	36.17	0.00	1.00
NDVI Mean	-108.61	222.01	36.17	0.00	1.00
EVI2 Mean	-108.89	222.58	36.74	0.00	1.00
NDBI SD	-109.80	224.41	38.56	0.00	1.00
ARVI Mean	-109.87	224.54	38.69	0.00	1.00
NDMI Mean	-110.11	225.03	39.18	0.00	1.00
NDBI Mean	-110.44	225.69	39.84	0.00	1.00
GNDVI SD	-110.53	225.86	40.01	0.00	1.00
ARVI SD	-110.85	226.50	40.66	0.00	1.00
SAVI SD	-110.86	226.51	40.67	0.00	1.00
NDVI SD	-110.86	226.51	40.67	0.00	1.00
EVI2 SD	-110.99	226.78	40.94	0.00	1.00
<i>Richness (Chao1)</i>					
NDVI Mean	-41.49	90.69	0.00	0.29	0.29
SAVI Mean	-41.49	90.69	0.00	0.29	0.58
EVI2 Mean	-41.74	91.19	0.50	0.22	0.80
ARVI Mean	-42.51	92.73	2.04	0.10	0.90
GNDVI Mean	-42.73	93.17	2.49	0.08	0.98
NDBI Mean	-45.83	99.38	8.69	0.01	0.99
NDMI Mean	-46.47	100.66	9.97	0.01	1.00
NDMI SD	-47.34	102.40	11.71	0.00	1.00
GNDVI SD	-47.53	102.77	12.08	0.00	1.00
SAVI SD	-47.79	103.29	12.60	0.00	1.00
NDVI SD	-47.79	103.29	12.60	0.00	1.00
NDBI SD	-47.81	103.34	12.65	0.00	1.00
ARVI SD	-47.87	103.46	12.78	0.00	1.00
LST SD	-47.92	103.56	12.87	0.00	1.00
EVI2 SD	-47.93	103.58	12.89	0.00	1.00
LST Mean	-47.94	103.59	12.90	0.00	1.00
<i>Evenness (PIE)</i>					
NDVI Mean	23.02	-38.33	0.00	0.22	0.22
SAVI Mean	23.02	-38.33	0.00	0.22	0.44
EVI2 Mean	22.90	-38.09	0.24	0.20	0.64

GNDVI Mean	22.82	-37.93	0.40	0.17	0.81
ARVI Mean	24.69	-41.67	3.34	0.04	0.85
NDMI SD	20.73	-33.75	4.58	0.02	0.87
LST Mean	20.59	-33.46	4.87	0.02	0.89
GNDVI SD	20.52	-33.33	5.00	0.02	0.91
NDBI Mean	20.48	-33.24	5.09	0.02	0.93
NDMI Mean	20.32	-32.93	5.40	0.01	0.94
SAVI SD	20.31	-32.9	5.43	0.01	0.95
NDVI SD	20.31	-32.9	5.43	0.01	0.96
NDBI SD	20.28	-32.86	5.48	0.01	0.97
LST SD	20.23	-32.75	5.58	0.01	0.98
EVI2 SD	20.23	-32.74	5.59	0.01	0.99
ARVI SD	20.22	-32.72	5.61	0.01	1.00
<i>Diversity (Shannon entropy)</i>					
NDVI Mean	-3.76	15.24	0.00	0.29	0.29
SAVI Mean	-3.76	15.24	0.00	0.29	0.58
EVI2 Mean	-4.01	15.73	0.49	0.23	0.81
ARVI Mean	-4.38	16.48	1.23	0.17	0.98
GNDVI Mean	-6.46	20.63	5.39	0.02	1.00
NDBI Mean	-8.23	24.17	8.93	0.00	1.00
NDMI Mean	-8.69	25.10	9.85	0.00	1.00
NDMI SD	-8.83	25.38	10.14	0.00	1.00
GNDVI SD	-9.07	25.86	10.61	0.00	1.00
SAVI SD	-9.33	26.37	11.12	0.00	1.00
NDVI SD	-9.33	26.37	11.12	0.00	1.00
NDBI SD	-9.35	26.41	11.17	0.00	1.00
LST Mean	-9.39	26.50	11.26	0.00	1.00
ARVI SD	-9.43	26.58	11.34	0.00	1.00
LST SD	-9.43	26.58	11.34	0.00	1.00
EVI2 SD	-9.45	26.61	11.37	0.00	1.00
<i>Functional richness (FRic)</i>					
NDBI SD	-87	181.71	0.00	0.17	0.17
ARVI Mean	-87.58	182.88	1.17	0.09	0.26
ARVI SD	-87.63	182.98	1.27	0.09	0.35
EVI2 SD	-87.77	183.26	1.54	0.08	0.43
NDMI Mean	-88.01	183.73	2.02	0.06	0.49
NDVI SD	-88.04	183.79	2.07	0.06	0.55
SAVI SD	-88.04	183.79	2.07	0.06	0.61
EVI2 Mean	-88.12	183.95	2.24	0.06	0.67
SAVI Mean	-88.16	184.03	2.32	0.05	0.72
NDVI Mean	-88.16	184.03	2.32	0.05	0.77
NDMI SD	-88.22	184.16	2.45	0.05	0.82
GNDVI SD	-88.28	184.28	2.57	0.05	0.87

GNDVI Mean	-88.49	184.70	2.99	0.04	0.91
LST SD	-88.55	184.81	3.10	0.04	0.95
NDBI Mean	-88.75	185.21	3.49	0.03	0.98
LST Mean	-88.92	185.56	3.85	0.02	1.00
<i>Functional evenness (FEve)</i>					
GNDVI Mean	20.15	-32.59	0.00	0.19	0.19
LST SD	19.72	-31.73	0.86	0.12	0.31
SAVI Mean	19.66	-31.61	0.99	0.11	0.42
NDVI Mean	19.66	-31.61	0.99	0.11	0.53
EVI2 Mean	19.59	-31.46	1.13	0.11	0.64
LST Mean	18.81	-29.91	2.68	0.05	0.69
ARVI Mean	18.69	-29.67	2.92	0.03	0.72
NDMI SD	18.61	-29.51	3.08	0.04	0.76
GNDVI SD	18.34	-28.97	3.62	0.03	0.79
ARVI SD	18.25	-28.79	3.80	0.03	0.82
NDBI Mean	18.24	-28.77	3.82	0.03	0.85
NDBI SD	18.23	-28.75	3.84	0.03	0.88
SAVI SD	18.23	-28.74	3.86	0.03	0.91
NDVI SD	18.23	-28.74	3.86	0.03	0.94
NDMI Mean	18.21	-28.7	3.89	0.03	0.97
EVI2 SD	18.21	-28.7	3.89	0.03	1.00
<i>Functional diversity (FDiv)</i>					
LST SD	26.13	-44.55	0.00	0.18	0.18
GNDVI Mean	25.98	-44.25	0.30	0.16	0.34
LST Mean	25.62	-43.53	1.02	0.11	0.44
SAVI Mean	25.09	-42.47	2.08	0.06	0.51
NDVI Mean	25.09	-42.47	2.08	0.06	0.57
EVI2 Mean	25.02	-42.32	2.23	0.06	0.63
NDMI SD	24.92	-42.12	2.43	0.05	0.68
ARVI Mean	24.65	-41.59	2.96	0.04	0.73
GNDVI SD	24.59	-41.46	3.10	0.04	0.76
NDBI SD	24.56	-41.41	3.14	0.04	0.80
NDVI SD	24.54	-41.36	3.20	0.04	0.84
SAVI SD	24.54	-41.36	3.20	0.04	0.87
EVI2 SD	24.41	-41.1	3.45	0.03	0.91
NDMI Mean	24.39	-41.06	3.49	0.03	0.94
NDBI Mean	24.38	-41.05	3.50	0.03	0.97
ARVI SD	24.36	-41	3.55	0.03	1.00
<i>Functional dispersion (FDis)</i>					
ARVI SD	11.23	-14.75	0.00	0.28	0.28
EVI2 SD	11.02	-14.33	0.42	0.23	0.51
NDVI SD	10.67	-13.63	1.12	0.16	0.67
SAVI SD	10.33	-12.95	1.80	0.11	0.78

LST Mean	9.84	-11.97	2.78	0.07	0.85
GNDVI SD	9.10	-10.49	4.26	0.03	0.88
NDBI SD	8.88	-10.05	4.70	0.03	0.91
NDMI SD	8.56	-9.41	5.34	0.02	0.93
NDMI Mean	8.44	-9.17	5.58	0.02	0.95
ARVI Mean	8.31	-8.91	5.84	0.01	0.96
EVI2 Mean	8.02	-8.33	6.42	0.01	0.97
SAVI Mean	7.45	-7.19	7.56	0.01	0.98
NDVI Mean	7.45	-7.19	7.56	0.01	0.99
LST SD	7.36	-7.01	7.74	0.01	1.00
NDBI Mean	7.11	-6.51	8.24	0.00	1.00
GNDVI Mean	6.34	-4.97	9.78	0.00	1.00
<i>Rao's quadratic entropy (Q)</i>					
EVI2 SD	-37.29	82.29	0.00	0.20	0.20
ARVI SD	-37.44	82.59	0.30	0.17	0.37
NDVI SD	-37.46	82.63	0.34	0.18	0.55
SAVI SD	-37.46	82.63	0.34	0.18	0.73
GNDVI SD	-38.31	84.33	2.04	0.07	0.80
NDBI SD	-38.61	84.94	2.65	0.05	0.85
NDMI Mean	-39.21	86.13	3.84	0.03	0.88
NDMI SD	-39.46	86.63	4.34	0.02	0.90
ARVI Mean	-39.70	87.12	4.83	0.02	0.92
LST SD	-39.74	87.20	4.91	0.02	0.94
LST Mean	-39.99	87.69	5.40	0.01	0.95
NDBI Mean	-40.01	87.74	5.45	0.01	0.96
EVI2 Mean	-40.09	87.90	5.61	0.01	0.97
SAVI Mean	-40.10	87.92	5.63	0.01	0.98
NDVI Mean	-40.10	87.92	5.63	0.01	0.99
GNDVI Mean	-40.25	88.22	5.93	0.01	1.00
<i>Community evolutionary distinctiveness (CED)</i>					
NDVI Mean	-11.01	29.73	0.00	0.22	0.22
SAVI Mean	-11.01	29.73	0.00	0.22	0.44
GNDVI Mean	-11.09	29.90	0.17	0.20	0.64
EVI2 Mean	-11.32	30.36	0.64	0.16	0.80
ARVI Mean	-12.33	32.37	2.64	0.06	0.86
NDBI Mean	-12.67	33.06	3.34	0.04	0.90
NDMI Mean	-13.62	34.95	5.22	0.02	0.92
NDMI SD	-13.64	34.99	5.26	0.02	0.94
GNDVI SD	-13.97	35.65	5.92	0.01	0.95
LST Mean	-14.19	36.10	6.37	0.01	0.96
SAVI SD	-14.43	36.57	6.85	0.01	0.97
NDVI SD	-14.43	36.57	6.85	0.01	0.98
ARVI SD	-14.54	36.78	7.06	0.01	0.99

NDBI SD	-14.54	36.80	7.07	0.01	1.00
LST SD	-14.57	36.85	7.12	0.00	1.00
EVI2 SD	-14.62	36.95	7.22	0.00	1.00
<i>Maximum community evolutionary distinctiveness (maxCED)</i>					
LST SD	-48.56	104.83	0.00	0.22	0.22
GNDVI Mean	-49.57	106.85	2.02	0.08	0.31
NDVI Mean	-49.73	107.17	2.34	0.07	0.38
SAVI Mean	-49.73	107.17	2.34	0.07	0.45
LST Mean	-49.79	107.30	2.46	0.07	0.51
NDMI SD	-49.86	107.43	2.59	0.06	0.57
EVI2 Mean	-49.89	107.49	2.66	0.06	0.63
GNDVI SD	-49.90	107.52	2.68	0.06	0.69
NDBI Mean	-49.98	107.68	2.85	0.05	0.75
ARVI Mean	-50.11	107.93	3.10	0.05	0.79
NDMI Mean	-50.25	108.21	3.38	0.04	0.84
SAVI SD	-50.40	108.52	3.69	0.04	0.87
NDVI SD	-50.40	108.52	3.69	0.04	0.91
ARVI SD	-50.54	108.79	3.95	0.03	0.94
NDBI SD	-50.55	108.81	3.98	0.03	0.97
EVI2 SD	-50.55	108.82	3.98	0.03	1.00

Each predictor was modeled separately for each response variable. Abundance models were built under Poisson distributions; diversity models were built under Gaussian distributions.

LogLik, log-likelihood; AICc, second-order Akaike information criterion; ΔAICc , AICc difference between the model under concern and the best model; wi, Akaike weight.

See Table 1 for diversity index codes and Table 2 for spectral indices codes.

Table S5. Full list of GLM models selected to assess the relationship of remotely sensed, at a 200 m buffer around survey stations, spectral indices on the abundance and taxonomic, functional, and phylogenetic diversity of the bird community in Kavala.

	LogLik	AIC _c	ΔAIC _c	W _i	Cumulative W _i
<i>Abundance</i>					
LST SD	-91.77	188.33	0.00	1.00	1.00
NDMI SD	-98.86	202.51	14.18	0.00	1.00
LST Mean	-101.16	207.12	18.78	0.00	1.00
GNDVI Mean	-102.1	209.01	20.67	0.00	1.00
SAVI Mean	-103.92	212.64	24.31	0.00	1.00
NDVI Mean	-103.92	212.64	24.31	0.00	1.00
EVI2 Mean	-104.72	214.25	25.91	0.00	1.00
ARVI Mean	-105.67	216.14	27.81	0.00	1.00
NDBI SD	-109.19	223.19	34.85	0.00	1.00
EVI2 SD	-110.3	225.40	37.06	0.00	1.00
GNDVI SD	-110.41	225.63	37.29	0.00	1.00
ARVI SD	-110.73	226.25	37.92	0.00	1.00
NDVI SD	-110.86	226.52	38.18	0.00	1.00
SAVI SD	-110.86	226.52	38.18	0.00	1.00
NDBI Mean	-110.92	226.64	38.31	0.00	1.00
NDMI Mean	-111.01	226.83	38.49	0.00	1.00
<i>Richness (Chao1)</i>					
ARVI SD	-39.26	86.24	0.00	0.38	0.38
EVI2 SD	-39.89	87.50	1.26	0.20	0.58
NDVI SD	-40.46	88.63	2.39	0.11	0.69
SAVI SD	-40.46	88.63	2.39	0.11	0.81
NDBI SD	-40.7	89.11	2.87	0.09	0.90
ARVI Mean	-41.92	91.55	5.31	0.03	0.92
EVI2 Mean	-42.13	91.98	5.74	0.02	0.94
NDVI Mean	-42.36	92.44	6.20	0.02	0.96
SAVI Mean	-42.36	92.44	6.20	0.02	0.98
NDMI Mean	-43.21	94.13	7.89	0.01	0.99
NDBI Mean	-43.47	94.66	8.42	0.01	0.99
GNDVI Mean	-43.51	94.74	8.50	0.01	1.00
NDMI SD	-44.36	96.43	10.19	0.00	1.00
GNDVI SD	-44.83	97.38	11.14	0.00	1.00
LST Mean	-47.63	102.98	16.74	0.00	1.00
LST SD	-47.93	103.58	17.34	0.00	1.00
<i>Evenness (PIE)</i>					
ARVI SD	23.83	-39.95	0.00	0.28	0.28
EVI2 SD	22.99	-38.26	1.69	0.12	0.40
SAVI SD	22.89	-38.07	1.89	0.11	0.50

NDVI SD	22.89	-38.07	1.89	0.11	0.61
NDBI SD	22.47	-37.23	2.73	0.07	0.68
EVI2 Mean	22.05	-36.39	3.57	0.05	0.73
NDVI Mean	21.97	-36.23	3.73	0.04	0.77
SAVI Mean	21.97	-36.23	3.73	0.04	0.82
ARVI Mean	21.96	-36.21	3.74	0.04	0.86
NDMI SD	21.74	-35.76	4.19	0.03	0.89
GNDVI Mean	21.72	-35.73	4.22	0.03	0.93
NDMI Mean	21.26	-34.8	5.16	0.02	0.95
NDBI Mean	21.13	-34.54	5.41	0.02	0.97
GNDVI SD	21.04	-34.36	5.59	0.02	0.98
LST SD	20.44	-33.17	6.78	0.01	0.99
LST Mean	20.27	-32.82	7.13	0.01	1.00
<i>Diversity (Shannon entropy)</i>					
ARVI SD	-3.67	15.04	0.00	0.33	0.33
EVI2 SD	-4.52	16.75	1.71	0.14	0.47
NDVI SD	-4.91	17.53	2.49	0.10	0.57
SAVI SD	-4.91	17.53	2.49	0.10	0.66
NDBI SD	-5.36	18.44	3.39	0.06	0.72
ARVI Mean	-5.41	18.54	3.50	0.06	0.78
EVI2 Mean	-5.44	18.59	3.55	0.06	0.83
NDVI Mean	-5.55	18.82	3.78	0.05	0.88
SAVI Mean	-5.55	18.82	3.78	0.05	0.93
GNDVI Mean	-6.24	20.19	5.15	0.03	0.96
NDMI Mean	-6.77	21.25	6.20	0.01	0.97
NDBI Mean	-7	21.71	6.66	0.01	0.99
NDMI SD	-7.36	22.43	7.38	0.01	0.99
GNDVI SD	-8.01	23.74	8.70	0.00	1.00
LST Mean	-9.35	26.41	11.37	0.00	1.00
LST SD	-9.37	26.46	11.41	0.00	1.00
<i>Functional richness (FRic)</i>					
GNDVI SD	-86.95	181.62	0.00	0.20	0.20
SAVI SD	-87.31	182.33	0.71	0.14	0.34
NDVI SD	-87.31	182.33	0.71	0.14	0.48
ARVI SD	-87.57	182.86	1.24	0.11	0.58
EVI2 SD	-88.13	183.97	2.35	0.06	0.66
NDMI Mean	-88.44	184.60	2.97	0.05	0.70
LST Mean	-88.78	185.28	3.66	0.03	0.74
LST SD	-88.79	185.29	3.67	0.03	0.77
NDBI Mean	-88.8	185.32	3.69	0.03	0.80
ARVI Mean	-88.81	185.34	3.72	0.03	0.83
NDBI SD	-88.82	185.35	3.73	0.03	0.86
SAVI Mean	-88.9	185.51	3.89	0.03	0.89

NDVI Mean	-88.9	185.51	3.89	0.03	0.92
EVI2 Mean	-88.91	185.53	3.91	0.03	0.95
NDMI SD	-88.93	185.57	3.95	0.03	0.97
GNDVI Mean	-88.93	185.58	3.95	0.03	1.00
<i>Functional evenness (FEve)</i>					
ARVI SD	20.10	-32.49	0.00	0.30	0.30
EVI2 SD	19.54	-31.37	1.12	0.18	0.48
GNDVI Mean	19.51	-31.31	1.18	0.17	0.65
SAVI SD	18.34	-28.97	3.52	0.05	0.70
NDVI SD	18.34	-28.97	3.52	0.05	0.75
EVI2 Mean	18.17	-28.63	3.86	0.04	0.79
NDBI SD	18.17	-28.63	3.86	0.04	0.83
SAVI Mean	18.16	-28.61	3.88	0.04	0.87
NDVI Mean	18.16	-28.61	3.88	0.04	0.91
ARVI Mean	17.85	-27.99	4.50	0.03	0.94
NDMI SD	17.74	-27.77	4.72	0.03	0.97
LST SD	16.72	-25.73	6.76	0.01	0.98
GNDVI SD	16.45	-25.19	7.30	0.01	0.99
LST Mean	16.38	-25.05	7.44	0.01	1.00
NDBI Mean	14.24	-20.77	11.72	0.00	1.00
NDMI Mean	14.21	-20.71	11.78	0.00	1.00
<i>Functional diversity (FDiv)</i>					
NDMI SD	27.21	-46.71	0.00	0.28	0.28
LST Mean	27.06	-46.41	0.30	0.24	0.52
LST SD	26.38	-45.05	1.66	0.12	0.65
GNDVI Mean	25.60	-43.5	3.21	0.06	0.70
NDBI SD	25.44	-43.17	3.53	0.05	0.75
SAVI Mean	25.17	-42.64	4.07	0.04	0.79
NDVI Mean	25.17	-42.63	4.07	0.04	0.82
EVI2 Mean	25.02	-42.33	4.38	0.03	0.86
ARVI Mean	24.90	-42.09	4.62	0.03	0.88
NDMI Mean	24.42	-41.13	5.58	0.02	0.90
GNDVI SD	24.41	-41.1	5.61	0.02	0.92
EVI2 SD	24.39	-41.06	5.65	0.02	0.94
NDBI Mean	24.36	-41.01	5.70	0.02	0.95
ARVI SD	24.35	-40.98	5.72	0.02	0.97
SAVI SD	24.35	-40.98	5.73	0.02	0.98
NDVI SD	24.35	-40.98	5.73	0.02	1.00
<i>Functional dispersion (FDis)</i>					
LST Mean	18.34	-28.97	0.00	0.27	0.27
GNDVI Mean	17.97	-28.23	0.74	0.19	0.46
EVI2 Mean	17.73	-27.75	1.22	0.15	0.61
NDVI Mean	17.65	-27.59	1.38	0.14	0.75

SAVI Mean	17.43	-27.15	1.82	0.11	0.86
GNDVI SD	16.44	-25.17	3.80	0.04	0.90
NDMI SD	16.04	-24.37	4.60	0.03	0.93
NDBI Mean	15.84	-23.97	5.00	0.02	0.95
ARVI Mean	15.11	-22.51	6.46	0.01	0.96
SAVI SD	14.99	-22.27	6.70	0.01	0.97
NDVI SD	14.99	-22.27	6.70	0.01	0.98
NDBI SD	14.58	-21.45	7.52	0.01	0.99
NDMI Mean	14.45	-21.19	7.78	0.01	1.00
ARVI SD	13.58	-19.45	9.52	0.00	1.00
EVI2 SD	13.22	-18.73	10.24	0.00	1.00
LST SD	12.11	-16.51	12.46	0.00	1.00
<i>Rao's quadratic entropy (Q)</i>					
GNDVI SD	-39.49	86.69	0.00	0.27	0.27
GNDVI Mean	-39.68	87.08	0.39	0.22	0.49
LST SD	-39.82	87.35	0.66	0.19	0.68
SAVI SD	-40.84	89.39	2.70	0.07	0.75
NDVI SD	-40.84	89.39	2.70	0.07	0.82
EVI2 Mean	-41.94	91.59	4.90	0.02	0.84
NDVI Mean	-41.97	91.65	4.96	0.02	0.86
SAVI Mean	-41.97	91.65	4.96	0.02	0.88
ARVI SD	-42.04	91.79	5.10	0.02	0.90
LST Mean	-42.08	91.87	5.18	0.02	0.92
EVI2 SD	-42.10	91.91	5.22	0.02	0.94
ARVI Mean	-42.17	92.05	5.36	0.02	0.96
NDBI Mean	-42.20	92.11	5.42	0.02	0.98
NDBI SD	-43.25	94.21	7.52	0.01	0.99
NDMI Mean	-43.26	94.23	7.54	0.01	1.00
NDMI SD	-44.27	96.25	9.56	0.00	1.00
<i>Community evolutionary distinctiveness (CED)</i>					
NDBI SD	-8.39	24.49	0.00	0.86	0.86
NDMI SD	-11.10	29.91	5.41	0.06	0.91
ARVI SD	-12.47	32.65	8.16	0.01	0.93
GNDVI Mean	-12.69	33.10	8.60	0.01	0.94
NDVI Mean	-12.96	33.63	9.14	0.01	0.95
SAVI Mean	-12.96	33.64	9.14	0.01	0.96
EVI2 Mean	-12.98	33.67	9.17	0.01	0.96
EVI2 SD	-13.25	34.21	9.72	0.01	0.97
ARVI Mean	-13.38	34.46	9.97	0.01	0.98
NDVI SD	-13.39	34.49	10.00	0.01	0.98
SAVI SD	-13.39	34.49	10.00	0.01	0.99
LST Mean	-14.05	35.81	11.32	0.00	0.99
NDBI Mean	-14.16	36.04	11.55	0.00	0.99

NDMI Mean	-14.24	36.19	11.70	0.00	1.00
GNDVI SD	-14.61	36.94	12.45	0.00	1.00
LST SD	-14.66	37.03	12.54	0.00	1.00
<i>Maximum community evolutionary distinctiveness (maxCED)</i>					
NDBI SD	-48.03	103.78	0.00	0.36	0.36
NDMI SD	-48.62	104.95	1.17	0.20	0.56
LST SD	-49.68	107.07	3.29	0.07	0.63
LST Mean	-49.79	107.30	3.53	0.06	0.70
ARVI SD	-50.32	108.36	4.59	0.04	0.73
NDVI SD	-50.61	108.93	5.15	0.03	0.76
SAVI SD	-50.61	108.93	5.15	0.03	0.79
GNDVI Mean	-50.61	108.94	5.16	0.03	0.82
EVI2 SD	-50.69	109.09	5.31	0.03	0.84
NDVI Mean	-50.75	109.21	5.43	0.02	0.87
SAVI Mean	-50.75	109.21	5.43	0.02	0.89
EVI2 Mean	-50.77	109.25	5.47	0.02	0.91
ARVI Mean	-50.83	109.38	5.60	0.02	0.94
NDMI Mean	-50.85	109.42	5.64	0.02	0.96
NDBI Mean	-50.85	109.42	5.64	0.02	0.98
GNDVI SD	-50.85	109.42	5.64	0.02	1.00

Each predictor was modeled separately for each response variable. Abundance models were built under Poisson distributions; diversity models were built under Gaussian distributions.

LogLik, log-likelihood; AICc, second-order Akaike information criterion; ΔAICc , AICc difference between the model under concern and the best model; wi, Akaike weight.

See Table 1 for diversity index codes and Table 2 for spectral indices codes.

Table S6. Full list of GLM models selected to assess the relationship of remotely sensed, at a 500 m buffer around survey stations, spectral indices on the abundance and taxonomic, functional, and phylogenetic diversity of the bird community in Kavala.

	LogLik	AIC _c	ΔAIC _c	w _i	Cumulative w _i
<i>Abundance</i>					
GNDVI Mean	-94.67	194.14	0.00	0.64	0.64
SAVI Mean	-96.56	197.91	3.77	0.10	0.73
NDVI Mean	-96.56	197.91	3.77	0.10	0.83
EVI2 Mean	-97.42	199.64	5.50	0.04	0.87
NDVI SD	-97.44	199.68	5.54	0.04	0.91
SAVI SD	-97.44	199.68	5.54	0.04	0.95
GNDVI SD	-98.02	200.85	6.71	0.02	0.97
ARVI Mean	-98.51	201.81	7.67	0.01	0.98
EVI2 SD	-98.66	202.11	7.97	0.01	1.00
ARVI SD	-99.66	204.12	9.98	0.00	1.00
LST SD	-101.99	208.78	14.64	0.00	1.00
NDBI Mean	-103.57	211.94	17.80	0.00	1.00
NDMI Mean	-103.94	212.68	18.54	0.00	1.00
NDBI SD	-107.54	219.89	25.75	0.00	1.00
LST Mean	-108.28	221.36	27.22	0.00	1.00
NDMI SD	-109.59	223.98	29.84	0.00	1.00
<i>Richness (Chao1)</i>					
NDMI Mean	-44.38	96.47	0.00	0.24	0.24
NDBI Mean	-45.11	97.93	1.46	0.11	0.35
ARVI Mean	-45.12	97.95	1.49	0.11	0.46
NDVI Mean	-45.23	98.17	1.70	0.10	0.56
SAVI Mean	-45.23	98.17	1.70	0.10	0.66
EVI2 Mean	-45.4	98.51	2.04	0.08	0.74
GNDVI Mean	-45.52	98.76	2.30	0.07	0.81
ARVI SD	-46.54	100.79	4.33	0.03	0.84
NDBI SD	-46.55	100.81	4.35	0.03	0.87
EVI2 SD	-46.57	100.86	4.39	0.03	0.90
NDVI SD	-46.58	100.87	4.41	0.03	0.93
SAVI SD	-46.58	100.87	4.41	0.03	0.96
GNDVI SD	-47.03	101.78	5.32	0.01	0.97
NDBI SD	-47.34	102.38	5.92	0.01	0.98
LST Mean	-47.38	102.47	6.01	0.01	0.99
LST SD	-47.93	103.58	7.11	0.01	1.00
<i>Evenness (PIE)</i>					
NDMI Mean	21.36	-35.01	0.00	0.18	0.18
LST Mean	21.35	-34.99	0.02	0.18	0.36
NDBI Mean	20.89	-34.06	0.95	0.11	0.47

SAVI Mean	20.85	-33.99	1.02	0.11	0.58
NDVI Mean	20.85	-33.99	1.02	0.11	0.69
ARVI Mean	20.35	-32.99	2.02	0.06	0.75
EVI2 Mean	20.23	-32.75	2.26	0.06	0.81
GNDVI Mean	20.10	-32.49	2.52	0.05	0.86
NDVI SD	19.50	-31.29	3.72	0.03	0.89
SAVI SD	19.50	-31.29	3.72	0.03	0.92
GNDVI SD	19.38	-31.05	3.96	0.02	0.94
ARVI SD	19.38	-31.05	3.96	0.02	0.96
EVI2 SD	19.16	-30.61	4.40	0.02	0.98
LST SD	18.39	-29.07	5.94	0.01	0.99
NDBI SD	18.35	-28.99	6.02	0.01	1.00
NDMI SD	18.24	-28.77	6.24	0.01	1.01
<i>Diversity (Shannon entropy)</i>					
NDMI Mean	-7.02	21.74	0.00	0.19	0.19
ARVI Mean	-7.69	23.09	1.35	0.10	0.29
SAVI Mean	-7.72	23.15	1.41	0.10	0.39
NDVI Mean	-7.72	23.15	1.41	0.10	0.49
EVI2 Mean	-7.8	23.31	1.56	0.09	0.58
NDVI Mean	-8.14	23.99	2.25	0.06	0.64
GNDVI Mean	-8.32	24.35	2.61	0.05	0.69
NDVI SD	-8.44	24.60	2.86	0.05	0.74
SAVI SD	-8.44	24.60	2.86	0.05	0.79
ARVI SD	-8.44	24.60	2.86	0.05	0.84
EVI2 SD	-8.51	24.73	2.99	0.04	0.88
GNDVI SD	-8.71	25.13	3.39	0.04	0.92
NDBI SD	-8.74	25.20	3.46	0.03	0.95
LST Mean	-8.75	25.21	3.47	0.03	0.98
NDMI SD	-9.27	26.26	4.52	0.02	1.00
LST SD	-10.96	29.63	7.89	0.00	1.00
<i>Functional richness (FRic)</i>					
NDMI Mean	-88.23	184.18	0.00	0.17	0.17
LST Mean	-88.47	184.66	0.48	0.14	0.31
NDBI Mean	-88.56	184.84	0.65	0.12	0.43
ARVI Mean	-88.59	184.89	0.71	0.12	0.55
SAVI Mean	-88.63	184.98	0.80	0.12	0.67
NDVI Mean	-88.63	184.98	0.80	0.12	0.79
EVI2 Mean	-89.56	186.83	2.65	0.05	0.84
GNDVI Mean	-89.7	187.11	2.93	0.03	0.87
ARVI SD	-89.98	187.67	3.49	0.03	0.90
EVI2 SD	-90.44	188.59	4.41	0.02	0.92
SAVI SD	-90.44	188.59	4.41	0.02	0.94
NDVI SD	-90.44	188.59	4.41	0.02	0.96

LST SD	-90.9	189.51	5.33	0.01	0.97
NDBI SD	-90.91	189.53	5.35	0.01	0.98
GNDVI SD	-90.92	189.55	5.37	0.01	0.99
NDMI SD	-90.93	189.57	5.39	0.01	1.00
<i>Functional evenness (FEve)</i>					
GNDVI Mean	18.70	-29.69	0.00	0.18	0.18
GNDVI SD	18.60	-29.49	0.20	0.17	0.35
EVI2 Mean	18.19	-28.67	1.02	0.11	0.46
SAVI Mean	18.19	-28.67	1.02	0.11	0.57
NDVI Mean	18.19	-28.67	1.02	0.11	0.68
ARVI Mean	17.88	-28.05	1.64	0.08	0.76
LST SD	17.44	-27.17	2.52	0.05	0.81
SAVI SD	17.44	-27.17	2.52	0.05	0.86
NDMI Mean	17.13	-26.55	3.14	0.04	0.90
LST SD	16.81	-25.91	3.78	0.03	0.93
EVI2 SD	16.81	-25.91	3.78	0.03	0.96
ARVI SD	16.19	-24.67	5.02	0.01	0.97
LST Mean	16.01	-24.31	5.38	0.01	0.98
NDBI SD	15.37	-23.03	6.66	0.01	0.99
NDBI Mean	15.37	-23.03	6.66	0.01	1.00
NDMI SD	14.24	-20.77	8.92	0.00	1.00
<i>Functional diversity (FDiv)</i>					
NDVI SD	27.49	-47.26	0.00	0.22	0.22
SAVI SD	27.49	-47.26	0.00	0.22	0.44
EVI2 SD	27.43	-47.14	0.11	0.21	0.65
ARVI SD	27.20	-46.69	0.56	0.16	0.81
GNDVI SD	26.20	-44.69	2.57	0.06	0.87
GNDVI Mean	25.93	-44.15	3.11	0.05	0.92
SAVI Mean	25.15	-42.59	4.67	0.02	0.94
NDVI Mean	25.15	-42.59	4.67	0.02	0.96
EVI2 Mean	25.03	-42.35	4.91	0.02	0.98
ARVI Mean	24.42	-41.13	6.13	0.01	0.99
LST Mean	23.90	-40.09	7.17	0.01	1.00
NDBI SD	23.86	-40.01	7.25	0.00	1.00
NDBI Mean	23.47	-39.23	8.03	0.00	1.00
NDMI Mean	22.44	-37.17	10.09	0.00	1.00
LST SD	21.43	-35.15	12.11	0.00	1.00
NDMI SD	20.49	-33.27	13.99	0.00	1.00
<i>Functional dispersion (FDis)</i>					
NDMI Mean	-11.32	30.35	0.00	0.27	0.27
NDMI SD	-11.44	30.59	0.24	0.24	0.51
LST SD	-11.89	31.49	1.14	0.15	0.66
NDBI Mean	-12.15	32.01	1.66	0.12	0.78

NDBI SD	-12.47	32.65	2.30	0.09	0.87
ARVI Mean	-13.24	34.19	3.84	0.04	0.91
LST Mean	-13.24	34.19	3.84	0.04	0.95
GNDVI SD	-13.93	35.57	5.22	0.02	0.97
SAVI Mean	-14.57	36.85	6.50	0.01	0.98
NDVI Mean	-14.57	36.85	6.50	0.01	0.99
EVI2 Mean	-14.89	37.49	7.14	0.01	1.00
NDVI SD	-15.77	39.25	8.90	0.00	1.00
SAVI SD	-15.77	39.25	8.90	0.00	1.00
ARVI SD	-15.77	39.25	8.90	0.00	1.00
EVI2 SD	-16.81	41.33	10.98	0.00	1.00
GNDVI Mean	-17.76	43.23	12.88	0.00	1.00
<i>Rao's quadratic entropy (Q)</i>					
NDMI Mean	-39.76	87.23	0.00	0.23	0.23
NDBI Mean	-39.96	87.63	0.40	0.19	0.42
ARVI Mean	-40.1	87.92	0.69	0.17	0.59
SAVI Mean	-40.59	88.89	1.66	0.10	0.69
NDVI Mean	-40.59	88.89	1.66	0.10	0.79
EVI2 Mean	-40.90	89.51	2.28	0.07	0.86
ARVI SD	-41.22	90.15	2.92	0.05	0.91
EVI2 SD	-41.74	91.19	3.96	0.03	0.94
SAVI SD	-42.25	92.21	4.98	0.02	0.96
NDVI SD	-42.25	92.21	4.98	0.02	0.98
LST SD	-43.25	94.21	6.98	0.01	0.99
NDMI SD	-43.25	94.21	6.98	0.01	1.00
GNDVI Mean	-43.76	95.23	8.00	0.00	1.00
NDBI SD	-44.27	96.25	9.02	0.00	1.00
GNDVI SD	-44.27	96.25	9.02	0.00	1.00
LST Mean	-44.27	96.25	9.02	0.00	1.00
<i>Community evolutionary distinctiveness (CED)</i>					
LST Mean	-13.90	35.51	0.00	0.25	0.25
GNDVI Mean	-14.26	36.24	0.72	0.17	0.42
SAVI Mean	-14.33	36.38	0.86	0.16	0.58
NDVI Mean	-14.33	36.38	0.86	0.16	0.74
LST SD	-14.97	37.65	2.14	0.08	0.82
EVI2 Mean	-15.37	38.45	2.94	0.06	0.88
ARVI Mean	-15.87	39.45	3.94	0.03	0.91
NDMI Mean	-16.47	40.65	5.14	0.02	0.93
NDBI Mean	-16.60	40.91	5.40	0.02	0.95
NDBI SD	-16.97	41.65	6.14	0.01	0.96
ARVI SD	-16.97	41.65	6.14	0.01	0.97
NDVI SD	-17.19	42.09	6.58	0.01	0.98
SAVI SD	-17.19	42.09	6.58	0.01	0.99

EVI2 SD	-17.19	42.09	6.58	0.01	1.00
GNDVI SD	-18.75	45.21	9.70	0.00	1.00
NDMI SD	-18.96	45.63	10.12	0.00	1.00
<i>Maximum community evolutionary distinctiveness (maxCED)</i>					
LST SD	-49.89	107.49	0.00	0.32	0.32
LST Mean	-50.07	107.85	0.35	0.27	0.32
GNDVI SD	-50.91	109.53	2.04	0.11	0.59
SAVI SD	-51.32	110.35	2.86	0.08	0.70
NDVI SD	-51.32	110.35	2.86	0.08	0.78
EVI2 SD	-51.76	111.23	3.74	0.05	0.86
ARVI SD	-51.99	111.69	4.20	0.04	0.91
NDBI SD	-52.75	113.21	5.72	0.02	0.95
NDMI SD	-52.97	113.65	6.16	0.01	0.97
NDBI Mean	-53.50	114.71	7.22	0.01	0.98
NDMI Mean	-53.71	115.13	7.64	0.01	0.99
EVI2 Mean	-54.44	116.59	9.10	0.00	1.00
ARVI Mean	-54.44	116.59	9.10	0.00	1.00
SAVI Mean	-54.87	117.45	9.96	0.00	1.00
NDVI Mean	-54.87	117.45	9.96	0.00	1.00
GNDVI Mean	-54.93	117.57	10.08	0.00	1.00

Each predictor was modeled separately for each response variable. Abundance models were built under Poisson distributions; diversity models were built under Gaussian distributions.

LogLik, log-likelihood; AICc, second-order Akaike information criterion; ΔAICc , AICc difference between the model under concern and the best model; wi, Akaike weight.

See Table 1 for diversity index codes and Table 2 for spectral indices codes.