

DIGITAL APPENDIX 1

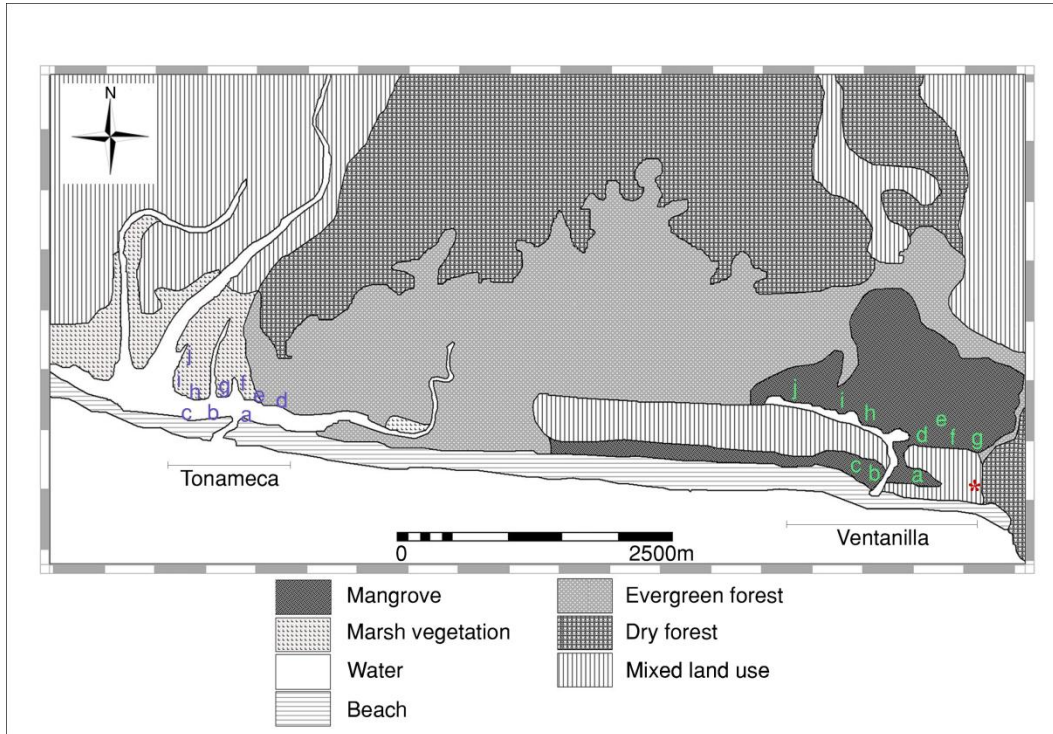


Fig. 1. A schematic map of point count sites and the main vegetation types of the study area (created using ILWIS, 2005). Mixed land use includes agricultural land, palm plantations, and regrowth. * = La Ventanilla village. Letter in green indicate point sites in mangrove (Ventanilla) and letters in blue are in the estuarine environment (Tonameca).

Table 1. Characteristics of the 20 sampling points shown in Fig. 1.

Site	Vegetation		Water		
	Composition ¹	Ht (m) ²	% GF ³	Hydrology ⁴	% Area ⁵
Ventanilla (mangrove)					
a	<i>L. racemosa</i> (79)	13	0	Precipitation	23
b	<i>L. racemosa</i> (92)	14	0	Precipitation	25
c	<i>L. racemosa</i> (89)	12	0	Precipitation	13
d	<i>R. mangle</i> (100)	12	0	Precipitation	48
e	<i>R. mangle</i> (100)	12	1	Precipitation	39
f	<i>R. mangle</i> (100)	12	0	Precipitation	49
g	<i>R. mangle</i> (96)	16	0	Precipitation	45
h	<i>R. mangle</i> (96)	12	0.1	Precipitation	43
i	<i>R. mangle</i> (93)	11	0.5	Precipitation	51
j	<i>R. mangle</i> (83)	9.5	1	Precipitation	41
Tonameca (estuary)					
a	Mon/Herb	<1	30	Tidal/Fluvial	50
b	Mon/Herb	<1	1	Tidal/Fluvial	50
c	Mon	<1	1	Tidal/Fluvial	50
d	Mon/Herb/Flo	<3	42.2	Tidal	50
e	Mon/Herb/Flo	<3	33.7	Tidal	50
f	Mon/Herb/ Flo	<3	60	Tidal	60
g	Mon/Herb/Flo	<3	50	Tidal	40
h	Mon/Herb/Flo	<3	50	Tidal	50
i	Mon/Herb/Flo	<3	50	Fluvial	50
j	Mon/Herb/Flo	<3	50	Fluvial	50

¹ For Ventanilla the dominant mangrove species is given with its composition percentage in parenthesis (*Rhizophora mangle* is red mangrove and *Laguncularia racemosa* is white mangrove). Estimates were obtained with point-quarter methodology. For Tonameca, Mon = monocotyledons (includes *Typha domingensis* and *Hymenachne amplexicaulis*), Herb = herbaceous species (includes *Mimosa* sp.), and Flo = floating vegetation (includes *Eichhornia crassipes*, *Pistia stratiotes* and *Nymphaea ampla*).

² Ht = Vegetation height. At Ventanilla tree heights were visually estimated during point-quarter sampling. For Tonameca, vegetation height estimates were obtained with 10 quadrants of 1 m² per site.

³ GF = Ground flora. Visual estimates of percent coverage were obtained with 10 quadrants of 1 m² at each site.

⁴ Hydrology refers to factors influencing water level and flow. “Tidal” only applied when the ephemeral connection with the Pacific Ocean was open (June to November).

⁵ Percentage area of open water was estimated within quarters of a 25 m radius around the center of the count site. Estimates of quarters were then averaged. In the mangrove “open water” was defined as areas of 25 m² with no emergent trunks or roots.

DIGITAL APPENDIX 2

Classification of bird species from a Mexican wetland in a hierarchical system of key-resource guilds (Kg) nested within trophic guilds (Tg). The following categories of trophic resources are classified as being of minor (Min), significant (Sig), and major (Maj) importance: (1) vegetative parts of terrestrial plants; (2) fruit; (3) nectar; (4) terrestrial seeds; (5) terrestrial, arboreal and aerial invertebrates; (6) soil and leaf-litter invertebrates; (7) herpetofauna; (8) birds and mammals; (9) plankton and aquatic plant matter; (10) aquatic invertebrates of the water column and surface; (11) aquatic infauna; (12) crabs; (13) aquatic vertebrates; and (14) carrion. Nomenclature follows the American Ornithologists' Union 2015 check-list of North American birds.

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Ortalis poliocephala</i>	t1	a	4	1,2		Eguiarte & Martínez del Rio, 1985; Moermond & Denslow, 1985
<i>Patagioenas flavirostris</i>	t1	a		4	2	Greenberg et al., 1997; Rappole et al., 1993; Wheelwright et al., 1984
<i>Zenaida asiatica</i>	t1	a		4	2	Pruitt et al., 2008; Rappole et al., 1983
<i>Trogon citreolus</i>	t1	a		5	2	Eguiarte & Martínez del Rio, 1985; Greenberg & Bichier, 2005; Remsen et al., 1993
<i>Eupsittula canicularis</i>	t1	a	1	2,3,4		Matuzac et al., 2008
<i>Amazona albifrons</i>	t1	a	1	2,3,4		Matuzac et al., 2008
<i>Saltator coerulescens</i>	t1	a	1,3,4	2,5		Eguiarte & Martínez del Rio, 1985; Herrera et al., 2006; Hutto, 1994; Moermond & Denslow, 1985; Wheelwright et al., 1984
<i>Icterus spurius</i>	t1	a		1,2,3,5		Gryj et al., 1990; Rappole et al., 1983
<i>Icterus pustulatus</i>	t1	a		2,3,5		Eguiarte & Martínez del Rio, 1985; Gryj et al., 1990; Herrera et al., 2006; Hutto, 1994; Rappole et al., 1983
<i>Cassiculus melanicterus</i>	t1	a		2,3,5		Eguiarte & Martínez del Rio, 1985; Gryj et al., 1990; Herrera et al., 2006
<i>Leptotila verreauxi</i>	t1	a	5	2,4		Greenberg et al., 1997; Herrera et al., 2003, 2006; Wheelwright et al., 1984
<i>Turdus rufopalliatus</i>	t1	a	3,5,6	2		Gryj et al., 1990; Hutto, 1994
<i>Icteria virens</i>	t1	a	3	2,5		Gryj et al., 1990; Parrish, 1997; Rappole et al., 1983

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Piranga rubra</i>	t1	a	3	2,5		Coates-Estrada & Estrada, 1986; Gryj et al., 1990; Moermond & Denslow, 1985; Rappole et al., 1983; Wheelwright et al., 1984
<i>Arremonops rufivirgatus</i>	t1	b		2,4,5		Herrera et al., 2006; Howell & Webb, 1995
<i>Cardinalis cardinalis</i>	t1	b		2,4,5		Baldwin et al., 2008; McGraw et al., 2003; Poulin et al., 1994 (congener)
<i>Columbina inca</i>	t1	b	5		4	Herrera et al., 2006; Pérez & Bulla, 2000
<i>Columbina talpacoti</i>	t1	b	5		4	Herrera et al., 2006
<i>Cyanocompsa parellina</i>	t1	b	3	2,4		Coates-Estrada & Estrada, 1986; Gryj et al., 1990; Hutto, 1994
<i>Sporophila minuta</i>	t1	b			4	Poulin et al., 1994 (congener)
<i>Sporophila torqueola</i>	t1	b			4	Poulin et al., 1994 (congener)
<i>Empidonax difficilis</i>	t2	c		2,5		Parrish, 1997 (congener); Rappole et al., 1983
<i>Empidonax minimus</i>	t2	c		2,5		Parrish, 1997; Rappole et al., 1983
<i>Empidonax traillii</i>	t2	c		2,5		Eckhardt, 1979; Parrish, 1997; Rappole et al., 1983
<i>Megarynchus pitangua</i>	t2	c		2,5		Greenberg & Bichier, 2005; Wheelwright et al., 1984
<i>Myiarchus cinerascens</i>	t2	c		2,5		Hutto, 1994; Rappole et al., 1983
<i>Myiarchus tyrannulus</i>	t2	c		2,5		Herrera et al., 2006; Moermond & Denslow, 1985; Poulin et al., 1994; Rappole et al., 1983
<i>Myiozetetes similis</i>	t2	c		2,5		Eguiarte & Martínez del Rio, 1985; Herrera et al., 2006; Wheelwright et al., 1984
<i>Vireo flavoviridis</i>	t2	c		2,5		Morton, 1977
<i>Vireo gilvus</i>	t2	c		2,5		Parrish, 1993; Rappole et al., 1983; Root, 1967
<i>Helimaster constantii</i>	t2	d		3,5		Arizmendi & Ornelas, 1990; Gryj et al., 1990; Remsen et al., 1986
<i>Amazilia rutila</i>	t2	d		3,5		Arizmendi & Ornelas, 1990; Gryj et al., 1990; Remsen et al., 1986

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Archilochus colubris</i>	t2	d		3,5		Arizmendi & Ornelas, 1980; Courter et al., 2013; Rappole et al., 1983
<i>Agelaius phoeniceus</i>	t2	e	2	4	5	Best, 2001; Krauss & Yasukawa, 2013; Rappole et al., 1983;
<i>Attila spadiceus</i>	t2	e	2	7	5	Herrera et al., 2003; Poulin et al., 1999; 2001; Sherry & McDade, 1982;
<i>Camptostoma imberbe</i>	t2	e		2	5	Fitzpatrick, 1980; Hutto, 1994; Rappole et al., 1983
<i>Campylorhynchus rufinucha</i>	t2	e			5	Greenberg & Bichier, 2005
<i>Cardellina pusilla</i>	t2	e	3	2	5	Greenberg & Bichier, 2005; Gryj et al., 1990; Hutto, 1981; Parrish, 1997; Rappole et al., 1983
<i>Catharus ustulatus</i>	t2	e		2,5,6		Coates-Estrada & Estrada, 1986; Moermond & Denslow, 1985; Parrish, 1997; Rappole et al., 1983; Wheelwright et al., 1984
<i>Contopus sordidulus</i>	t2	e	2		5	Eckhardt, 1979; Rappole et al., 1983
<i>Crotophaga sulcirostris</i>	t2	e	2,7		5	Greenberg & Bichier, 2005; Vehrencamp, 1978; Wheelwright et al., 1984; Wunderle, 1981
<i>Geothlypis tolmiei</i>	t2	e	3		5	Hutto, 1981; Parrish, 1997; Rappole et al., 1983
<i>Geothlypis trichas</i>	t2	e		2	5	Hutto, 1981; Parrish, 1997; Rappole et al., 1983
<i>Icterus gularis</i>	t2	e	3	2	5	Pleasants, 1981
<i>Icterus pectoralis</i>	t2	e	3	2	5	Pleasants, 1981 (congener); Wunderle, 1978
<i>Mniotilta varia</i>	t2	e	2,3		5	Greenberg & Bichier, 2005; Gryj et al., 1990; Parrish, 1997; Rappole et al., 1983
<i>Morococcyx erythropygus</i>	t2	e	6,7		5	Fleming & Hooker, 1975; Skutch, 1966
<i>Pachyrhamphus aglaiae</i>	t2	e	2	5		Greenberg et al., 1997; Hutto 1994
<i>Passerculus sandwichensis</i>	t2	e		4,5,6		Rappole et al., 1983
<i>Pheugopedius felix</i>	t2	e	2		5	Greenberg & Bichier, 2005; Herrera et al., 2006 (congener); pers. obs.

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Polioptila albiloris</i>	t2	e			5	Greenberg & Bichier, 2005; Root, 1967
<i>Setophaga americana</i>	t2	e	3	2	5	Parrish, 1997; Rappole et al., 1983
<i>Setophaga petechia</i>	t2	e	2		5	Greenberg et al., 1997; Parrish, 1997; Rappole et al., 1983
<i>Setophaga ruticilla</i>	t2	e	2		5	Parrish, 1997; Poulin et al., 1994; Rappole et al., 1983
<i>Thryophilus pleurostictus</i>	t2	e	2,6		5	Herrera et al., 2006; Hutto, 1994
<i>Vireo bellii</i>	t2	e		2	5	Coates-Estrada & Estrada, 1986; Rappole et al., 1983
<i>Vireo hypochryseus</i>	t2	e	3	2	5	Gryj et al., 1990; Hutto, 1994; Parrish, 1997; Rappole et al., 1983; Wheelwright et al., 1984
<i>Campephilus guatemalensis</i>	t2	f			5	Askins, 1983; Greenberg et al., 1997; Hutto, 1994
<i>Dryocopus lineatus</i>	t2	f			5	Askins, 1983; Greenberg et al., 1997
<i>Melanerpes chrysogenys</i>	t2	f	3	2	5	Eguiarte & Martínez del Rio, 1985; Gryj et al., 1990; Hutto, 1994
<i>Hirundo rustica</i>	t2	g	2		5	Rappole et al., 1983
<i>Petrochelidon pyrrhonota</i>	t2	g	2		5	Rappole et al., 1983
<i>Progne chalybea</i>	t2	g			5	Howell & Webb, 1995
<i>Stelgidopteryx serripennis</i>	t2	g			5	Howell & Webb, 1995
<i>Streptoprocne zonaris</i>	t2	g			5	Rowley & Orr, 1965
<i>Tachycineta albilinea</i>	t2	g			5	Moore et al., 1999
<i>Tyrannus crassirostris</i>	t2	g	2	5		Hutto, 1994; Rappole et al., 1983
<i>Tyrannus melancholicus</i>	t2	g		2	5	Fitzpatrick, 1980; Moermond & Denslow, 1985; Rappole et al., 1983; Wheelwright et al., 1984
<i>Nyctidromus albicollis</i>	t2	g			5	Howell & Webb, 1995
<i>Parkesia noveboracensis</i>	t2	I	2,4,5, 13	10	6	Parrish, 1997; Poulin et al., 1994; Rappole et al., 1983

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Pitangus sulphuratus</i>	t2	II	7,12, 13	2,5		Eguiarte & Martínez del Rio, 1985; Fitzpatrick, 1980; Herrera et al., 2006; Iribarne & Martinez, 1999; Rappole et al., 1983
<i>Quiscalus mexicanus</i>	t2	II	2,7, 12,14	6	4,5	Wehtje, 2003; Teather & Weatherhead 1988; pers. obs.
<i>Rupornis magnirostris</i>	t3	h	5	7	8	Baldarón et al., 2011; Panasci & Whitacre, 2000
<i>Buteo plagiatus</i>	t3	h	5	7	8	pers. obs
<i>Buteogallus anthracinus</i>	t3	h		5,7,8, 12		Rappole et al., 1983
<i>Circus cyaneus</i>	t3	h	5,7		8	García & Arroyo, 2005; Rappole et al., 1983
<i>Falco peregrinus</i>	t3	h	5		8	Castellanos et al., 2006; Ellis et al., 2004
<i>Geranospiza caerulescens</i>	t3	h		7	8	Sutter et al., 2001
<i>Calocitta formosa</i>	t3	i		2,5,7, 8		Berg, 2004
<i>Glaucidium brasilianum</i>	t3	i		5,7,8		Poulin et al., 1994; pers. obs
<i>Piaya cayana</i>	t3	i	2,8	5,7		Greenberg et al., 1997; Greenberg & Birchier, 2005; Komar & Thurber, 2003; Skutch, 1966
<i>Anas clypeata</i>	a1	j	4,13	9,10		Bellrose, 1980; Rappole et al., 1983; Tietje & Teer, 1996
<i>Anas discors</i>	a1	j		4,9,10		Bellrose, 1980; Botrero & Rusch, 1994; Rappole et al., 1983
<i>Aythya americana</i>	a1	j	4,5, 10,13		9	Adair et al., 1996; Bellrose, 1980; Mitchell et al., 1994; Rappole et al., 1983
<i>Dendrocygna bicolor</i>	a1	j		4,9,10		Carroll, 1932; Rappole et al., 1983; Rylander & Bolen, 1974
<i>Gallinula galeata</i>	a1	j		5,9,10		Rappole et al., 1983
<i>Porphyrio martinicus</i>	a1	j		9,10		Rappole et al., 1983; Stephens, 1984
<i>Actitis macularius</i>	a2	k	13	5	10	Placyk & Harrington, 2004; Rappole et al., 1983
<i>Arenaria interpres</i>	a2	k	12	5,10, 11		Rappole et al., 1983; Whitfield, 1990
<i>Calidris alba</i>	a2	k	9,12, 13	5,10, 11		Petracci, 2002; Rappole et al., 1983; Vanermen et al., 2009

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Calidris mauri</i>	a2	k		5,10, 11		Paulson, 2005; Rappole et al., 1983
<i>Calidris melanotos</i>	a2	k	9	5,10, 11		Brooks, 1967; Holden & Cleeves, 2002; Rappole et al., 1983
<i>Calidris minutilla</i>	a2	k		5,10, 11		Baker & Baker, 1973; Brooks, 1967; Paulson, 2005; Rappole et al., 1983
<i>Charadrius collaris</i>	a2	k	12	5,10		Howell & Webb, 1995; Iribarne & Martinez, 1999
<i>Charadrius nivosus</i>	a2	k	11	5,10		Paulson, 2005; Rappole et al., 1983
<i>Charadrius semipalmatus</i>	a2	k	11	5,10, 12		Baker & Baker, 1973; Rappole et al., 1983; Smith & Nol, 2000
<i>Charadrius wilsonia</i>	a2	k	11	5,10, 12		Iribarne & Martinez, 1999; Paulson, 2005; Rappole et al., 1983
<i>Pluvialis squatarola</i>	a2	k	12	5,10		Iribarne & Martinez, 1999; Rappole et al., 1983
<i>Himantopus mexicanus</i>	a2	l		5,13	10	Rappole et al., 1983; Ueng et al., 2009 (congener)
<i>Phalaropus tricolor</i>	a2	l		5,9	10	Paulson, 2005; Rappole et al., 1983
<i>Recurvirostra americana</i>	a2	l	5,9,13	10,11		Boettcher et al., 1995; Rappole et al., 1983
<i>Tringa flavipes</i>	a2	l	13	5,11	10	Baker & Baker, 1973; Brooks, 1967; Paulson, 2005; Rappole et al., 1983; Weber & Haig, 1997
<i>Tringa melanoleuca</i>	a2	l	11	5,13	10	Brooks, 1967; Paulson, 2005; Rappole et al., 1983
<i>Tringa semipalmata</i>	a2	l	11,12, 13	5,10		Castillo-Guerrero et al., 2009; Paulson, 2005; Rappole et al., 1983
<i>Limnodromus griseus</i>	a2	m		10	11	Baker & Baker, 1973; Rappole et al., 1983; Weber & Haig, 1997
<i>Limosa fedoa</i>	a2	m	5,10, 12		11	Castillo-Guerrero et al., 2009; Rappole et al., 1983
<i>Numenius phaeopus</i>	a2	m	5,10, 12		11	Rappole et al., 1983; Velásquez & Navarro, 1993
<i>Plegadis chihi</i>	a2	I	7,13	5,11	10	Rappole et al., 1983; Safran et al., 2000; Soave et al., 2006
<i>Jacana spinosa</i>	a2	I	5,9,13		10	Howell & Webb, 1995; Jenni & Collier, 1972
<i>Eudocimus albus</i>	a2.5	n	5,7	10,12, 13		Kushlan, 1979; Rappole et al., 1983
<i>Ixobrychus exilis</i>	a2.5	n	7	5,10, 13		Rappole et al., 1983

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Platalea ajaja</i>	a2.5	n	9	10,13		Rappole et al., 1983; Swennen & Yu, 2005 (congener)
<i>Podilymbus podiceps</i>	a2.5	n	9	5,10,13		Rappole et al., 1983
<i>Tachybaptus dominicus</i>	a2.5	n		5,10,13		Howell & Webb, 1995
<i>Egretta caerulea</i>	a2.5	o	5,7	10,13	12	Miranda & Collazo, 1997; Olmos et al., 2001; Rappole et al., 1983; Wunderle, 1981
<i>Nyctanassa violacea</i>	a2.5	o	5,7,10,13		12	Martínez, 2004; Rappole et al., 1983
<i>Chlidonias niger</i>	a2.5	III		5,10,13		Beintema et al., 2010; Rappole et al., 1983
<i>Ardea alba</i>	a3	p	5,7,12	10	13	Miranda & Collazo, 1997; Ramo & Busto, 1993; Rappole et al., 1983
<i>Ardea herodias</i>	a3	p	5,7,8,9,10		13	Ramo & Busto, 1993; Rappole et al., 1983
<i>Butorides virescens</i>	a3	p	5	10	13	Helm, 2012; Rappole et al., 1983
<i>Cochlearius cochlearius</i>	a3	p		10	13	Kushlan, 2009; Ramo & Busto, 1993
<i>Egretta rufescens</i>	a3	p	10		13	Ramo & Busto, 1993; Rappole et al., 1983
<i>Egretta thula</i>	a3	p	5,7	10	13	Miranda & Collazo, 1997; Ramo & Busto, 1993; Rappole et al., 1983
<i>Egretta tricolor</i>	a3	p	5,10		13	Miranda & Collazo, 1997; Ramo & Busto, 1993; Rappole et al., 1983
<i>Mycteria americana</i>	a3	p	5,7,9,10		13	Ogden et al., 1976; Rappole et al., 1983
<i>Nycticorax nycticorax</i>	a3	p	5,7,9,10	8	13	Hall & Kress, 2008; Rappole et al., 1983
<i>Phalacrocorax brasilianus</i>	a3	q	9,10		13	Casaux et al., 2009; Rappole et al., 1983
<i>Anhinga anhinga</i>	a3	q	9,10		13	Owre, 1967; Rappole et al., 1983
<i>Hydroprogne caspia</i>	a3	q	10		13	Collis et al., 2012; Rappole et al., 1983; Thompson et al., 2002
<i>Megaceryle alcyon</i>	a3	q	10		13	Rappole et al., 1983; Sullivan et al., 2006
<i>Megaceryle torquata</i>	a3	q	10		13	Green et al., 1978; Rappole et al., 1983; Willard, 1985
<i>Pandion haliaetus</i>	a3	q	5,7		13	Green et al., 1978; Rappole et al., 1983
<i>Pelecanus occidentalis</i>	a3	q	10		13	Rappole et al., 1983; Visser et al., 2005

Species	Tg ¹	Kg ²	Min	Sig	Maj	References
<i>Rynchops niger</i>	a3	q		10	13	Naves & Vooren, 2006; Rappole et al., 1983
<i>Sternula antillarum</i>	a3	q			13	Atwood & Kelly, 1984; Elliott et al., 2007; Zuria & Mellink, 2005
<i>Chloroceryle amazona</i>	a3	q	10		13	Willard, 1985
<i>Chloroceryle americana</i>	a3	q	10		13	Fry et al., 1992; Willard, 1985
<i>Thalasseus elegans</i>	a3	III	10		13	Dahdul & Horn, 2003; Rappole et al., 1983
<i>Thalasseus maximus</i>	a3	III	10,12		13	Aygen & Emslie, 2006; Rappole et al., 1983
<i>Fulica americana</i>	Ex1	n/a	4,5, 10,13		9	Rappole et al., 1983; Villamagna et al., 2010
<i>Dendrocygna autumnalis</i>	Ex2	n/a	1,5,10		4	Bellrose, 1980; Kramer & Euliss, 1986
<i>Fregata magnificens</i>	Ex2	n/a	10		13	Calixto-Albarrán & Osorno, 2000
<i>Bubulcus ibis</i>	Ex2	n/a	7	5		Rappole et al., 1983; Wunderle, 1981
<i>Cathartes aura</i>	Ex3	n/a	5		14	Rappole et al., 1983
<i>Coragyps atratus</i>	Ex3	n/a	5		14	Rappole et al., 1983
<i>Leucophaeus atricilla</i>	Ex4	n/a	12	5,10, 13,14		Bernhardt et al., 2010; Dosch, 1997; Howell & Dunn, 2007; Rappole et al., 1983
<i>Leucophaeus pipixcan</i>	Ex4	n/a		5,10, 13,14		Howell & Dunn, 2007; Rappole et al., 1983
<i>Coccyzus minor</i>	Ex4	n/a		2,5,7		Rappole et al., 1983; Wunderle, 1981
<i>Momotus mexicanus</i>	Ex4	n/a		2,5,7		Remsen et al., 1993; pers. obs.

¹ 'Ex' denotes species excluded from trophic guilds on account of: (1) abundance fluctuations (559 of 661 observations were between November 2011 and March 2012); (2) lagoon used exclusively for non-foraging activities; (3) carrion-based diet; or (4) significant resource consumption across three trophic levels.

² Species excluded from key-resource guilds because they: (I) did not share resources, microhabitat, or foraging technique with any other; (II) did not consume a sufficient portion of any one resource, or (III) presented relatively little foraging activity within the lagoon.

Additional details and criteria

Trophic guild 't2': Terrestrial insectivores

Species were included if they had significant consumption of fruit and terrestrial invertebrates, or nectar and terrestrial invertebrates, and no other categories. This was because insectivory among invertebrates raises the trophic level of insectivorous birds.

Key-resource guild 'e': Terrestrial insectivores

Parkesia noveboracensis was excluded because it consumes <0.25 terrestrial invertebrates (category 5). *Pitangus sulphuratus* and *Quiscalus mexicanus* consume >0.25 terrestrial invertebrates, but were excluded because they also consume an equal portion of fruit (*P. sulphuratus*) or seeds (*Q. mexicanus*). Because of similarity between terrestrial invertebrates (category 5) and soil invertebrates (category 6), two species were included that consume equal portions of >0.25 of these categories (*Catharus ustulatus* and *Passerculus sandwichensis*).

Key-resource guild 'f': Woodpeckers

Species in this group have functional adaptations for obtaining resources that are unavailable to other insectivores (Bock, 1999).

Key-resource guild 'g': Aerial hawkers or sweepers

Single point observations indicated that these species used airspace for foraging.

Trophic guild 'a2': Aquatic invertebrates

Soil invertebrates were excluded from shorebird diets as this resource is characteristic of breeding habitat (O'Brien, Crossley &, Karlson 2006) and diet (Custer & Pitelka, 1978), and because shorebirds were never observed outside aquatic environments in the study area. Single point observations of *Jacana spinosa* and *Plegadis chihi* were in aquatic vegetation or vegetated shorelines. Because of these distinct foraging substrates, these species were not included in any nested key-resource guilds.

Key-resource guild 'k': Shore-line insectivores

These species were always observed foraging on sandy shores, wet sediments or sand, and never observed foraging in shallow water.

Key-resource guild 'l': Wading insectivores

At least 25 % of single point observations involving foraging in shallow water, which implied the consumption of different prey species to birds in 'k'. No single point observations were obtained for *Tringa flavipes*, and *Phalaropus tricolor*, although we observed wading and swimming (*P. tricolor*) outside point counts. Furthermore, the morphological adaptations in these species (i.e., bill and leg length) are similar to other members of 'l'.

Key-resource guild 'm': Probing aquatic insectivore

Structural specializations in the bill and specific foraging methods allow these species to access resources by deep sediment probing (Baker & Baker 1973; references in Wiens, 1989, p. 324). These resources are unavailable to other species in the trophic guild of aquatic insectivores.

Trophic guild 'a2.5': Secondary aquatic consumers

Key-resource guild 'n': Aquatic insectivores/piscivores

Chlidonias niger was not included because most single point observations involved resting instead of foraging (95 %).

Trophic guild 'a3': Piscivores

Key-resource guild 'q': Deep water piscivores

Thalasseus maximus and *T. elegans* were not included because most single point observations involved resting (>98 %).

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