

SUPPLEMENTARY ELECTRONIC MATERIAL

ARDEOLA 63(2)

FROM RELICT SALINE WETLANDS TO NEW ECOSYSTEMS: CHANGES IN BIRD ASSEMBLAGES

DE RELICTOS DE HUMEDALES SALINOS A NUEVOS ECOSISTEMAS: CAMBIOS EN LOS ENSAMBLES DE AVES

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APPENDIX 1

Systematic list and mean abundance per plant community of bird species recorded at Las Dos Hermanas Farm. The species codes are the first three letters of the genus and the first three letters of the specific name. Habitat: O = obligate grassland, F = facultative grassland, A = aquatic, S = shrubland. Foraging location: A = aquatic, Gra = grasslands, UC = upper canopy, S = shrub, Gro = ground. Food type: I = insects, OI = other invertebrates, S = seeds, L = leaves, V = vertebrates, Ca = carrion, G = generalist. For foraging location and food type only species used for the analysis (> one record) are detailed. DisG: *Distichlis* grassland; BromG: *Bromus* grassland; SchG: *Schoenoplectus* grassland; SpG: *Spartina* grassland; NaG: *Nasella* grassland; HetS: *Heterostachys* shrubland; CycS: *Cyclolepis* shrubland.

[Listado sistemático y abundancia promedio para cada comunidad vegetal de las especies de aves registradas en la Estancia Las Dos Hermanas. Los códigos de las especies se corresponden con las tres primeras letras del género y las tres primeras letras del epíteto específico. Hábitat: O = obligada de pastizales, F = facultativa de pastizales, A = acuática, S = arbustales. Sitio de forrajeo: A = acuático, Gra = pastizales, UC = dosel superior, S = arbustales, Gro = suelo. Tipo de Alimento: I = insectos, OI = otros invertebrados, S = semillas, L = hojas, V = vertebrados, Ca = carroña, G = generalista. Se detallan los sitios de forrajeo y el tipo de alimento sólo para las especies utilizadas en el análisis (> un registro). DisG: pastizal de *Distichlis*; BromG: pastizal de *Bromus*; SchG: pastizal de *Schoenoplectus*; SpG: pastizal de *Spartina*; NaG: pastizal de *Nasella*; HetS: arbustal de *Heterostachys*; CycS: arbustal de *Cyclolepis*.]

| Common name | Family/Scientific name | Species code | Habitat | Foraging location | Food type | Plant community | | | | | | | |
|--------------------|---|--------------|---------|-------------------|-----------|-----------------|------|------|------|------|-------|-------|------|
| | | | | | | SchG | SpaG | NaG | CycS | DisG | Crops | BromG | HetS |
| Red-winged tinamou | Tinamidae <i>Rhynchotus rufescens</i> | RHYRUF | O | Gro | G | 0.00 | 0.17 | 0.05 | 0.17 | 0.00 | 0.00 | 0.00 | 0.10 |

| | | | | | | | | | | | | | |
|--------------------------|------------------------------|--------|---|-------|--------|------|------|------|------|------|------|------|------|
| Spotted nothura | <i>Nothura maculosa</i> | NOTMAC | O | Gro | G | 0.33 | 0.17 | 0.34 | 0.13 | 0.13 | 0.44 | 0.33 | 0.10 |
| Ardeidae | | | | | | | | | | | | | |
| Snowy egret | <i>Egretta thula</i> | EGRTHU | A | A | I-V | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 |
| Cattle egret | <i>Bubulcus ibis</i> | BUBIBI | F | Gro | I-V | 0.00 | 0.00 | 0.00 | 0.00 | 7.38 | 0.08 | 0.00 | 0.00 |
| Threskiornithidae | | | | | | | | | | | | | |
| White-faced ibis | <i>Plegadis chihi</i> | PLECHI | A | Gro | I-OI | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 1.71 | 0.00 |
| Anatidae | | | | | | | | | | | | | |
| Fulvous whistling-duck | <i>Dendrocygna bicolor</i> | DENBIC | A | | | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| White-cheeked pintail | <i>Anas bahamensis</i> | ANABAH | A | A | OI-L | 0.11 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Yellow-billed pintail | <i>Anas georgica</i> | ANAGEO | A | A-Gra | OI-S-L | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 |
| Rosy-billed pochard | <i>Netta peposaca</i> | NETPEP | A | | | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Accipitridae | | | | | | | | | | | | | |
| White-tailed kite | <i>Elanus leucurus</i> | ELALEU | F | | | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Long-winged harrier | <i>Circus buffoni</i> | CIRBUF | F | Gra | V | 0.00 | 0.22 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Variable hawk | <i>Geranoaetus polyosoma</i> | GERPOL | F | | | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| Short-eared owl | <i>Asio flammeus</i> | ASIFLA | O | Gra | V | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Falconidae

| | | | | | | | | | | | | | |
|-------------------|-------------------------|--------|---|-----|--------|------|------|------|------|------|------|------|------|
| Southern caracara | <i>Caracara plancus</i> | CARPLA | F | Gro | Ca-V | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.08 | 0.00 | 0.00 |
| Chimango caracara | <i>Milvago chimango</i> | MILCHI | F | Gro | I-Ca-V | 0.11 | 0.17 | 0.51 | 0.13 | 1.75 | 0.60 | 1.14 | 0.00 |
| Aplomado falcon | <i>Falco femoralis</i> | FALFEM | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| American kestrel | <i>Falco sparverius</i> | FALSPA | | | | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Rallidae

| | | | | | | | | | | | | | |
|------------------|-----------------------------------|--------|---|--|--|------|------|------|------|------|------|------|------|
| Plumbeous rail | <i>Pardirallus sanguinolentus</i> | PARSAN | A | | | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Red-fronted coot | <i>Fulica rufifrons</i> | FULRUF | A | | | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Charadriidae

| | | | | | | | | | | | | | |
|------------------|---------------------------|--------|---|-----|---|------|------|------|------|------|------|------|------|
| Southern lapwing | <i>Vanellus chilensis</i> | VANCHI | O | Gro | I | 0.00 | 0.00 | 0.34 | 0.13 | 2.63 | 0.96 | 0.71 | 1.90 |
|------------------|---------------------------|--------|---|-----|---|------|------|------|------|------|------|------|------|

Scolopacidae

| | | | | | | | | | | | | | |
|------------------|-----------------------------|--------|---|---------|---|------|------|------|------|------|------|------|------|
| Upland sandpiper | <i>Bartramia longicauda</i> | BARLON | O | Gra-Gro | I | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 |
|------------------|-----------------------------|--------|---|---------|---|------|------|------|------|------|------|------|------|

Columbidae

| | | | | | | | | | | | | | |
|-----------------|-----------------------------|--------|---|-----|---|------|------|------|------|------|------|------|------|
| Picazuro pigeon | <i>Patagioenas picazuro</i> | PATPIC | F | Gro | S | 0.56 | 0.00 | 0.02 | 1.04 | 0.00 | 0.04 | 0.00 | 0.20 |
| Eared dove | <i>Zenaida auriculata</i> | ZENAUR | F | Gro | S | 0.00 | 0.17 | 0.05 | 1.57 | 0.00 | 0.00 | 0.24 | 0.10 |

Cuculidae

| | | | | | | | | | | | | | |
|----------------------------|------------------------------------|--------|---|-----|------|------|------|------|------|------|------|------|------|
| Guira cuckoo | <i>Guira guira</i> | GUIGUI | S | Gro | I-V | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| | Strigidae | | | | | | | | | | | | |
| Burrowing owl | <i>Athene cunicularia</i> | ATHCUN | O | Gro | I-V | 0.00 | 0.00 | 0.07 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 |
| | Picidae | | | | | | | | | | | | |
| Campo flicker | <i>Colaptes campestris</i> | COLCAM | F | Gro | I | 0.00 | 0.00 | 0.10 | 0.13 | 0.00 | 0.36 | 0.10 | 0.00 |
| | Furnariidae | | | | | | | | | | | | |
| Wren-like rushbird | <i>Phleocryptes melanops</i> | PHLMEL | A | Gra | I | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sharp-billed canastero | <i>Asthenes pyrrholeuca</i> | ASTPYR | F | S | I | 0.00 | 0.00 | 0.00 | 0.61 | 0.00 | 0.00 | 0.00 | 0.20 |
| Firewood-gatherer | <i>Anumbius annumbi</i> | ANUANN | F | Gro | I | 0.00 | 0.11 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.30 |
| Pale-breasted spinetail | <i>Synallaxis albescens</i> | SYNALB | S | S | I | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| Freckle-breasted thornbird | <i>Phacellodomus striaticollis</i> | PHASTR | S | S | I | 0.00 | 0.00 | 0.02 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Tyrannidae | | | | | | | | | | | | |
| Austral negrito | <i>Lessonia rufa</i> | LESRUF | F | Gro | I-OI | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 |
| White-bellied tyrannulet | <i>Serpophaga munda</i> | SERMUN | S | | | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| White-crested tyrannulet | <i>Serpophaga subcristata</i> | SERSUB | S | S | I | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vermilion flycatcher | <i>Pyrocephalus rubinus</i> | PYRRUB | S | | | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bearded tachuri | <i>Polystictus</i> | POLPEC | S | Gra | I-S | 0.00 | 0.00 | 0.20 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |

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|----------------------------|--|--------|---|---------|---|------|------|------|------|------|------|------|------|
| Tropical kingbird | <i>pectoralis</i> <i>Tyrannus</i> | TYRMEL | S | UC | I | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| Spectacled tyrant | <i>melancholicus</i> <i>Hymenops</i> | HYMPER | F | Gro-Gra | I | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| Crowned slaty flycatcher | <i>perspicillatus</i> <i>Empidonomus</i> | EMPAUR | S | | | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fork-tailed flycatcher | <i>aurantioatrocristatus</i> <i>Tyrannus savana</i> | TYRSAV | O | UC | I | 0.00 | 0.56 | 0.02 | 0.52 | 0.13 | 0.04 | 0.14 | 0.10 |
| Gray-bellied shrike-tyrant | <i>Agriornis</i> | AGRMIC | F | UC | I | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.10 |
| Lesser shrike-tyrant | <i>micropterus</i> <i>Agriornis murinus</i> | AGRMUR | F | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| Hirundinidae | | | | | | | | | | | | | |
| White-rumped swallow | <i>Tachycineta</i> <i>leucorrhoa</i> | TACLEU | | UC | I | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.68 | 0.00 | 0.00 |
| Troglodytidae | | | | | | | | | | | | | |
| House wren | <i>Troglodytes aedon</i> | TROAED | S | S | I | 0.11 | 0.00 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.10 |
| Sedge wren | <i>Cistothorus platensis</i> | CISPLA | O | Gra | I | 2.78 | 2.39 | 1.17 | 0.57 | 0.25 | 0.00 | 0.19 | 0.00 |
| Mimidae | | | | | | | | | | | | | |
| White-banded mockingbird | <i>Mimus triurus</i> | MIMTRI | S | Gro-S | I | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chalk-browed mockingbird | <i>Mimus saturninus</i> | MIMSAT | S | Gro-S | I | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 | 0.60 |
| Motacillidae | | | | | | | | | | | | | |
| Short-billed pipit | <i>Anthus furcatus</i> | ANTFUR | O | Gro | I | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.40 | 0.19 | 0.00 |

| | | | | | | | | | | | | | |
|-------------------------|---------------------------------|--------|---|---------|--------|------|------|------|------|------|------|------|------|
| Correndera pipit | <i>Anthus correndera</i> | ANTCOR | O | Gro | I | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hellmayr's pipit | <i>Anthus hellmayri</i> | ANTHEL | O | Gro-Gra | I | 0.00 | 0.33 | 0.02 | 0.00 | 1.38 | 0.04 | 0.14 | 0.10 |
| Thraupidae | | | | | | | | | | | | | |
| Grassland yellow-finch | <i>Sicalis luteola</i> | SICLUT | O | Gro-Gra | S | 3.00 | 0.94 | 0.90 | 1.83 | 0.38 | 0.00 | 0.71 | 0.20 |
| Great pampa-finch | <i>Embernagra platensis</i> | EMBPLA | O | Gro | I-S | 5.33 | 1.11 | 0.88 | 0.70 | 0.38 | 0.00 | 0.86 | 0.90 |
| Dark-throated seedeater | <i>Sporophila ruficollis</i> | SPORUF | O | Gra | S | 0.44 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emberizidae | | | | | | | | | | | | | |
| Rufous-collared sparrow | <i>Zonotrichia capensis</i> | ZONCAP | F | Gro | I-S | 0.00 | 0.33 | 0.10 | 1.57 | 0.38 | 0.16 | 0.05 | 1.10 |
| Grassland sparrow | <i>Ammodramus humeralis</i> | AMMHUM | O | Gro | I-S | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.10 |
| Insertae sedis | | | | | | | | | | | | | |
| Golden-billed saltator | <i>Saltator aurantiirostris</i> | SALAUR | S | | | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| Icteridae | | | | | | | | | | | | | |
| Shiny cowbird | <i>Molothrus bonariensis</i> | MOLBON | F | Gro | I-OI-S | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bay-winged cowbird | <i>Agelaioides badius</i> | AGEBAD | F | S-Gro | I-OI | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Yellow-winged blackbird | <i>Agelasticus thilius</i> | AGETHI | A | Gra | I-OI | 0.67 | 1.11 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| White-browed blackbird | <i>Sturnella superciliaris</i> | STUSUP | O | Gro | G | 0.67 | 0.00 | 0.59 | 0.26 | 0.00 | 1.80 | 1.76 | 0.00 |