**Digital Appendix 1**

Diagram of sampling area within each site (n= four sites by type of management of rice fields). Grey rectangle represents the sampled rice field. All birds seen and heard from the field edge up to 100-m within the field (i.e., only counting birds on crop side of the transect) were sampled along 140-m long line transects. In addition to the transect, a 10-min point count was established at the beginning and end of each transect (black circles); point-counts covered an area (dashed line boxes in the figure) that included only an angle of 90 degrees from each point because points were located at the corners of the rice-field plots. Thus, by point counts we recorded all birds in a 70 m (i.e. up to the half of the transect) x 100 m area within the rice fields and at the edges (dashed line boxes in the figure).

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**Digital Appendix 2**

Species recorded in rice fields under conventional and agroecological management and their traits used to calculate functional diversity

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Body****Size (cm)** | **Habitat** | **Diet** | **Main components of diet** |  | **Foraging substrate** |  | **Foraging method or strategy** |
|  | **Fr** | **Ste** | **Se** | **Ne** | **Inv** | **Fis** | **Ot Ver** | **Car** |  | **Wat** | **Gro** | **Mud** | **Her** | **Shr** | **Arb** | **Air** | **Bar** |  | **Gle** | **Pro** | **Pur** | **HunAir** | **Pou** | **Dig** | **Fil** | **Sca** |
| **Tinamidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Nothura maculosa* | 26 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Anatidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Dendrocygna viduata* | 38 | Aqua | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Amazonetta brasiliensis* | 35 | Aqua | Herb | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Callonetta leucophrys* | 40 | Aqua | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Anas versicolor* | 31 | Aqua | Herb | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| **Columbidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Patagioenas maculosa* | 32 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Patagioenas picazuro* | 34 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Columbina picui* | 15 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Columbina talpacoti* | 15 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Leptotila verreauxi* | 31 | Terr | Herb | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Zenaida auriculata* | 22 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Cuculidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Guira guira* | 36 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Caprimulgidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Chordeiles nacunda* | 30 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Aramidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Aramus guarauna* | 54 | Aqua | Carn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Rallidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Gallinula galeata* | 29 | Aqua | Omn | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pardirallus maculatus* | 24 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pardirallus sanguinolentus* | 27 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Mustelirallus albicollis* | 25 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Charadriidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Vanellus chilensis* | 31 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Charadrius collaris* | 13 | Aqua | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pluvialis dominica* | 22 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Recurvirostridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Himantopus mexicanus* | 34 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Scolopacidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Gallinago paraguaiae* | 23 | Aqua | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tringa flavipes* | 23 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tringa melanoleuca* | 29 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tringa solitaria* | 19 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Calidris fuscicollis* | 15 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Calidris melanotos* | 18 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Jacanidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Jacana jacana* | 22 | Aqua | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Rostratulidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Nyctichryphes semicollaris* | 22 | Aqua | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Laridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Phaetusa simplex* | 39 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| *Sternula superciliaris* | 23 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **Ciconiidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Ciconia maguari* | 140 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Ardeidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Ardea alba* | 65 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Botaurus pinnatus* | 55 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Bubulcus ibis* | 35 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Butorides striata* | 34 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Tigrisoma lineatum* | 62 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Ixobrychus involucris* | 33 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Nycticorax nycticorax* | 47 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Syrigma sibilatrix* | 50 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Threskiornithidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Phimosus infuscatus* | 40 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Plegadis chihi* | 40 | Aqua | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Accipitridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Circus buffoni* | 55 | Wet | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| *Buteogallus meridionalis* | 60 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| *Rosthramus sociabilis* | 38 | Wet | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| **Falconidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Caracara plancus* | 55 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| **Psittacidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Myiopsitta monachus* | 27 | Terr | Herb | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Thamnophilidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Taraba major* | 24 | Terr | Carn | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Furnariidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Phleocryptes melanops* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Furnarius rufus* | 18 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Cinclodes fuscus* | 17 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Phacellodomus ruber* | 18 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Phacellodomus striaticollis* | 17 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Schoeniophylax phryganophilus* | 18 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Spartonoica maluroides* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Asthenes pyrroleuca* | 15 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Certhiaxis cinnamomeus* | 13 | Wet | Ins | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Tyraniidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Elaenia spectabilis* | 16 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Empidonomus aurantioatrocristatus* | 17 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Fluvicola albiventer* | 12 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Pseudocolopteryx sclateri* | 9 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Hymenops perspicillatus* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Machetornis rixosa* | 17 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Pitangus sulphurathus* | 22 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |  | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Pyrocephalus rubinus* | 13 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Tyrannus melancholicus* | 20 | Terr | Ins | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Tyranus savana* | 38 | Terr | Ins | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Xolmis irupero* | 17 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Vireonidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Vireo olivaceous* | 13 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Hirundinidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Progne tapera* | 16 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Riparia riparia* | 11 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Tachycineta leucorrhoa* | 13 | Wet | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Hirundo rustica* | 15 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Troglodytidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Troglodites aedon* | 10 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Polioptilidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Polioptila dumicola* | 11 | Terr | Ins | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Turdidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Turdus amaurochalinus* | 21 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Turdus rufiventris* | 23 | Terr | Omn | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Mimidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Mimus saturninus* | 25 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Mimus triurus* | 22 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **Motacillidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Anthus lutescens* | 12 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Parulidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Geothlypis aequinoctialis* | 12 | Terr | Ins | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Thraupidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Embernagra platensis* | 20 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |  | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Microspingus melanoleuca* | 14 | Terr | Herb | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Poospiza nigrorufa* | 15 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Paroaria coronata* | 17 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *Thraupis sayaca* | 15 | Terr | Herb | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Saltator caerulescens* | 20 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sicalis flaveola* | 12 | Terr | Herb | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sicalis luteola* | 12 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Volatinia jacarina* | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila caerulescens* | 10 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila collaris* | 11 | Wet | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila hypoxantha* | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila hypochroma* | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sporophila ruficollis*  | 9 | Terr | Herb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Emberizidae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Ammodramus humeralis* | 11 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Zonotrichia capensis* | 12 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Icteridae** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Agelaioides badius* | 18 | Terr | Omn | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Agelasticus cyanopus* | 18 | Hum | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Agelasticus thilius* | 17 | Hum | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Molothrus bonariensis* | 19 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Molothrus rufoaxilaris* | 18 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Chrysomus ruficapillus* | 17 | Wet | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Dolichonyx oryzivorus* | 15 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Pseudoleistes virescens* | 21 | Wet | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Sturnella superciliaris* | 17 | Terr | Omn | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Traits included body size (cm), habitat (one of three categories related with three types of general habitats: Terr, terrestrial; Wet, wetland and Aqua, aquatic), diet (one of four categories assigned to represent the predominant trophic items in the diet: Omn, omnivore; Herb, herbivore; Ins, insectivore and Carn, carnivore; adapted of Flynn et al., 2009 and based on trophic studies of the region listed in Digital Appendix 3), main components of diet (presence-absence of eight trophic items in the diet: Fr, fruits; Ste, stems and leaves; Se, seeds; Ne, nectar; Inv, invertebrates; Fis, fishes; Ot Ver, other vertebrates, Car, carrion; based on trophic studies of the region listed in Digital Appendix 3), foraging substrate (presence-absence of eight categories: Wat, water; Gro, ground; Mud, mud; Her, herbaceous stratum; Shr, shrub stratum; Arb, arboreal stratum; Air, air; Bar, bark; adapted from Mönkkönen et al., 2017) and foraging method (presence-absence of eight categories: Gle, gleaning; Pro, probing; Pur, pursuit; HunAir, hunting from the air; Pou, pouncing; Dig, digging; Fil, filtration; Sca, Scavenging; adapted from Mönkkönen et al., 2017).

**Digital Appendix 3**

List of references used to compile ecomorphological characterization of recorded birds

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