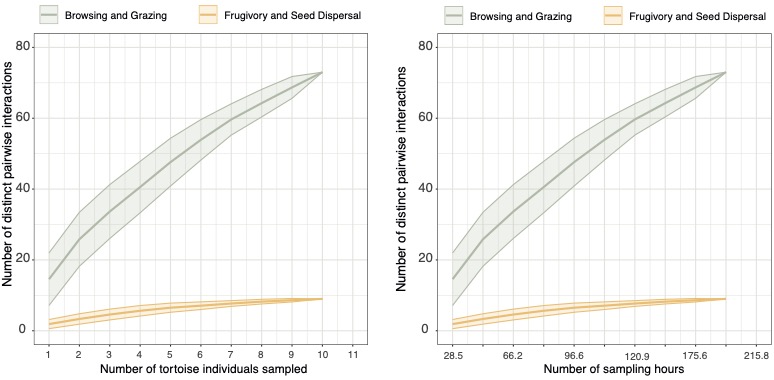
**Supplemental Material.**

**Supplementary Figures.**

**Fig.1.** Feeding areas of individual tortoises within Aride Island.

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**Fig. S2.** Interaction accumulation curves depicting sampling completeness. Panel A shows the relationship between number of distinct pairwise interactions recorded in relation to the number of tortoise individual sampled (left panel) and number of sampling hours (right panel) for both antagonistic (green) and mutualistic (yellow) interactions.

**Supplementary Tables.**

**Table S1.** List of of 154 plant species records within Aride Island, including species collected in tortoise feeding areas (n=51), as well as native (n=56) and introduced species (n=47).

|  |  |  |
| --- | --- | --- |
| COLLECTED | NATIVE SPECIES | INTRODUCED SPECIES |
| *Acalypha indica* | *Abrus precatorius* | *Allium cepa* |
| *Amaranthus dubius* | *Achyranthes aspera* | *Allium fistulosum* |
| *Ananas comosus* | *Agave sisalana* | *Annona muricata* |
| *Annona reticulata* | *Alocasia macrorrhiza* | *Annona squamosa* |
| *Artocarpus altilis* | *Alternanthera sessilis* | *Brassica chinensis* |
| *Asystasia gangetica* | *Amorphophallus paeoniifolius* | *Capsicum annuum* |
| *Averrhoa bilimbi* | *Bambusa vulgaris* | *Capsicum frutescens* |
| *Barringtonia asiatica* | *Boerhavia repens* | *Citrullus lanatus* |
| *Calophyllum inophyllum* | *Canavalia cathartica* | *Citrus aurantifolia* |
| *Carica papaya* | *Canna indica* | *Citrus aurantium* |
| *Casuarina equisetifolia* | *Ceratopteris cornuta* | *Citrus limon* |
| *Catharanthus roseus* | *Cocos nucifera* | *Citrus medica* |
| *Commelina benghalensis* | *Cordia myxa* | *Citrus paradisi* |
| *Cordia subcordata* | *Cynodon dactylon* | *Coffea sp.* |
| *Cyanthillium cinereum* | *Cyperus alopecuroides* | *Colocasia esculenta* |
| *Cynanchum viminale* | *Cyperus compressus* | *Cucumis melo* |
| *Datura metel* | *Cyperus distans* | *Cucumis sativus* |
| *Digitaria horizontalis* | *Dactyloctenium ctenoides* | *Cucurbita moschata* |
| *Euphorbia pyrifolia* | *Eleusine indica* | *Cucurbita pepo* |
| *Ficus Benghalensis* | *Enteropogon sechellensis* | *Curcuma domestica* |
| *Ficus lutea* | *Eragrostis tenella* | *Cymbopogon citratus* |
| *Ficus reflexa* | *Eucalyptus camaldulensis* | *Dioscorea alata* |
| *Hernandia nymphaeifolia* | *Euphorbia hirta* | *Eugenia malaccensis* |
| *Ipomoea aquatica* | *Euphorbia thymifolia* | *Gossypium hirsutum* |
| *Ipomoea pes-caprae* | *Fimbristylis complanata* | *Hibiscus esculentus* |
| *Kyllinga polyphylla* | *Heliotropium indicum* | *Ipomoea batatas* |
| *Ludwigia nervosa* | *Hymenocalis littoralis* | *Lactuca sativa* |
| *Manihot esculenta* | *Intsia bijuga* | *Mangifera indica* |
| *Morinda citrifolia* | *Ipomoea macrantha* | *Momordica charantia* |
| *Musa x paradisiaca* | *Ipomoea venosa* | *Moringa oleifera* |
| *Nephrolepis biserrata* | *Ludwigia erecta* | *Musa sp.* |
| *Ochrosia oppositifolia* | *Maranta arundinacea* | *Nasturtium officinale* |
| *Pandanus balfourii* | *Mariscus dubius* | *Nicotiana tabacum* |
| *Panicum bisulcatum* | *Mariscus ligularis* | *Persea americana* |
| *Panicum maximum* | *Mariscus pedunculatus* | *Petroselinum crispum* |
| *Peponium vogelii* | *Mollugo oppositifolia* | *Phaseolus vulgaris* |
| *Phyllanthus amarus* | *Panicum brevifolium* | *Phyllanthus acidus* |
| *Pisonia grandis* | *Pedilanthus tithymaloides* | *Psidium littorale* |
| *Plectranthus amboinicus* | *Pennisetum polystachyon* | *Punica granatum* |
| *Psidium guajava* | *Pentodon pentandrus* | *Saccharum officinarum* |
| *Rothmannia annae* | *Peperomia pellucida* | *Solanum lycopersicum* |
| *Scaevola taccada* | *Phyllanthus casticum* | *Solanum melongena* |
| *Senna occidentalis* | *Phyllanthus nummulariifolius* | *Thymus vulgaris* |
| *Sida cordifolia* | *Physalis peruviana* | *Trichosanthes cucumerina* |
| *Solanum americanum* | *Portulaca oleracea* | *Vigna unguiculata* |
| *Syzygium cumini* | *Premna obtusifolia* | *Zea mays* |
| *Syzygium samarangense* | *Pycreus polystachyos* | *Zingiber zerumbet* |
| *Talipariti tiliaceum* | *Scadoxus multiflorus* |  |
| *Terminalia catappa* | *Sesbanua sericea* |  |
| *Thespesia populnea* | *Setaria barbata* |  |
| *Tournefortia argentea* | *Solanum nigrum* |  |
|  | *Sporobolus virginicus* |  |
|  | *Stenotaphrum dimidiatum* |  |
|  | *Stenotaphrum micranthum* |  |
|  | *Vigna marina* |  |
|  | *Xylocarpus moluccensis* |  |

**Table S2.** Plant species collected in tortoise feeding areas, including their detection across different interaction sampling techniques and GenBank accession numbers.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Family | Species | Category | Focal  Observation | Faeces Examination | DNA Metabarcoding | GenBank Sequence |
| Euphorbiaceae | *Acalypha indica* | Introduced | 0 | 0 | 0 | KY700205.1 |
| Amaranthaceae | *Amaranthus tortuosus* | Introduced | 1 | 0 | 1 | MG685234.1 |
| Bromeliaceae | *Ananas comosus* | Introduced | 0 | 1 | 0 | ASM154086v1 |
| Annonaceae | *Annona reticulata* | Introduced | 0 | 0 | 0 | - |
| Moraceae | *Artocarpus altilis* | Introduced | 1 | 1 | 1 | KM234120.1 |
| Acanthaceae | *Asystasia gangetica* | Introduced | 1 | 0 | 0 | KY700560.1 |
| Oxalidaceae | *Averrhoa bilimbi* | Introduced | 0 | 0 | 0 | KR905595.1 |
| Lecythidaceae | *Barringtonia asiatica* | Native | 0 | 0 | 0 | AF208700.1 |
| Clusiaceae | *Calophyllum inophyllum* | Native | 0 | 0 | 0 | AB110820.1 |
| Caricaceae | *Carica papaya* | Introduced | 0 | 0 | 0 | AY461547.1 |
| Casuarinaceae | *Casuarina equisetifolia* | Introduced | 0 | 0 | 1 | AY864057.1 |
| Apocynaceae | *Catharanthus roseus* | Introduced | 0 | 0 | 0 | HQ130657.2 |
| Lamiaceae | *Coleus amboinicus* | Native | 0 | 0 | 0 | - |
| Commelinaceae | *Commelina benghalensis* | Native | 1 | 0 | 1 | MH768094.1 |
| Boraginaceae | *Cordia subcordata* | Native | 0 | 1 | 1 | MH768072.1 |
| Asteraceae | *Cyanthillium cinereum* | Introduced | 0 | 0 | 0 | MH768100.1 |
| Apocynaceae | *Cynanchum viminale* | Native | 0 | 0 | 0 | AJ492817.1 |
| Cyperaceae | *Cyperus aromaticus* | Native | 1 | 0 | 0 | - |
| Solanaceae | *Datura metel* | Introduced | 0 | 0 | 0 | MG693029.1 |
| Poaceae | *Digitaria horizontalis* | Introduced | 1 | 0 | 0 | KX689292.1 |
| Euphorbiaceae | *Euphorbia pyrifolia* | Native | 1 | 0 | 0 | KF409508.1 |
| Moraceae | *Ficus benghalensis* | Introduced | 0 | 1 | 0 | AY730065.1 |
| Moraceae | *Ficus lutea* | Native | 0 | 0 | 0 | GQ504296.1 |
| Moraceae | *Ficus reflexa* | Native | 1 | 1 | 1 | DQ455650.1 |
| Boraginaceae | *Heliotropium arboreum* | Native | 0 | 0 | 0 | MH768077.1 |
| Hernandiaceae | *Hernandia nymphaeifolia* | Native | 0 | 0 | 0 | - |
| Malvaceae | *Hibiscus tiliaceus* | Native | 0 | 0 | 0 | KY700378.1 |
| Convolvulaceae | *Ipomoea aquatica* | Introduced | 0 | 0 | 0 | MH189726.1 |
| Convolvulaceae | *Ipomoea pes-caprae* | Native | 0 | 0 | 0 | MH768124.1 |
| Fabaceae | *Ludwigia nervosa* | Introduced | 0 | 0 | 0 | KX168358.1 |
| Euphorbiaceae | *Manihot esculenta* | Introduced | 0 | 0 | 0 | JQ743203.1 |
| Poaceae | *Megathyrsus maximus* | Native | 1 | 1 | 0 | AY129712.1 |
| Rubiaceae | *Morinda citrifolia* | Native | 1 | 1 | 1 | MH768312.1 |
| Musaceae | *Musa x paradisiaca* | Introduced | 1 | 0 | 1 | FR727918.1 |
| Nephrolepidaceae | *Nephrolepis biserrata* | Native | 0 | 0 | 0 | - |
| Apocynaceae | *Ochrosia oppositifolia* | Native | 1 | 0 | 1 | AB331858.1 |
| Pandanaceae | *Pandanus balfourii* | Native | 0 | 0 | 0 | - |
| Poaceae | *Panicum bisulcatum* | Introduced | 1 | 0 | 1 | HQ822029.1 |
| Cucurbitaceae | *Peponium vogelii* | Native | 0 | 0 | 0 | KP036534.1 |
| Phyllanthaceae | *Phyllanthus amarus* | Introduced | 0 | 1 | 1 | EU623557.1 |
| Nyctaginaceae | *Pisonia grandis* | Native | 1 | 1 | 1 | MH768267.1 |
| Myrtaceae | *Psidium guajava* | Introduced | 1 | 0 | 0 | MH813242.1 |
| Rubiaceae | *Rothmannia annae* | Native | 0 | 0 | 0 | - |
| Goodeniaceae | *Scaevola taccada* | Native | 0 | 0 | 0 | KY700472.1 |
| Fabaceae | *Senna occidentalis* | Introduced | 0 | 0 | 0 | MH768083.1 |
| Malvaceae | *Sida cordifolia* | Introduced | 0 | 0 | 1 | MH768237.1 |
| Solanaceae | *Solanum americanum* | Introduced | 0 | 0 | 0 | MH768327.1 |
| Myrtaceae | *Syzygium cumini* | Introduced | 0 | 1 | 0 | KR532623.1 |
| Myrtaceae | *Syzygium samarangense* | Introduced | 0 | 0 | 1 | KC815990.1 |
| Combretaceae | *Terminalia catappa* | Introduced | 1 | 1 | 1 | MH432182.1 |
| Malvaceae | *Thespesia populnea* | Native | 0 | 0 | 0 | KX452503.1 |