**Supplementary material of “Charismatic species as indicators of plastic pollution in the Río de la Plata estuarine area, SW Atlantic”, by Victoria González Carman, Pablo Denuncio, Martina Vassallo, María Paula Berón, Karina C. Álvarez, and Sergio Rodriguez-Heredia.**

**Supplementary Table 1.** List of references on focal species in conservation to establish key attributes indicators of plastic pollution.

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**Supplementary Table 2.** List of species that interact with plastics in the Warm Temperate Southwest Atlantic. Type of plastic reported are classified as industrial plastic pellets (IND) and user plastics (USE, subcategories: she- sheetlike plastics, thr- threadlike plastics, foa- foamed plastics, fra- fragments and oth- other) according to Provencher et al. (2017) and van Franeker et al. (2011). Origin of plastic reported are classified as urban (URB, plastics from urban centers reaching the marine environment through run-offs, beach tourism or disposed from vessels) and fishing activities (FISH, plastic remains of fishing gears used by artisanal, recreational and industrial fisheries). Abbreviations are: IN. ingestion, EN. entanglement, NC. not calculated, NR. not reported, N. Number of samples (animals/pellets\*) evaluated. References are: 1. Rosolem Lima et al., 2018; 2. Awabdi et al., 2013; Di Beneditto and Awabdi, 2014; 3. da Silva Mendes et al., 2015; 4. Guebert-Bartholo et al., 2011; 5. Reis et al., 2010; 6. de Carvalho et al., 2015; 7. Stahelin et al., 2012; 8. Jerdi et al., 2017; 9. Santos et al., 2015; 10. Colferari et al., 2017; 11. Tourinho et al., 2010; 12. Rizzi et al., 2019, 13. Bugoni et al., 2001; 14. González Carman et al., 2014; 15. Vélez-Rubio et al., 2018; 16. Fundación Mundo Marino unpubl.; 17. Gama et al., 2016; 18. Nakashima, 2008; 19. Petry et al., 2021; 20. Di Beneditto et al., 2015a; 21. Di Beneditto and Ramos, 2014; Di Beneditto and Awabdi, 2014; 22. Denuncio et al., 2011; 23. Milmann et al., 2016; 24. Secchi and Zarzur, 1999; 25. Brentano and Petry, 2020; 26. Oliveira et al., 2008; 27. Albernaz, 2013; 28. Denuncio et al., 2017; 29. Franco-Trecu et al., 2017; 30. Brandão et al., 2011; 31. Pinto et al., 2007; Di Beneditto and Siciliano, 2017; 32. Petry and Fonseca, 2002; Petry et al., 2001, 2004, 2009; Petry et al. 2004; 33. Marques et al., 2018; 34. Di Beneditto et al., 2015b; 35. Ewbank et al., 2020; 36. Barbieri, 2009; 37. Petry et al., 2010; 38. Berón and Seco Pon, unpubl.; 39. Leal Valls et al., 2015; 40. Sucunza Perez, 2016; 41. Petry and Benneman, 2017; 42. Colabuono et al., 2009, 2010; Colabuono and Vooren, 2007; 43. Perez et al., 2018; 44. Petry et al., 2008; 45. Petry et al., 2009; 46. Petry et al., 2007; 47. Jiménez et al., 2015; 48. Berón et al., 2016; 49. Lenzi et al., 2016; 50. Burgues et al., 2020; 51. Yorio et al., 2014; 52. Yorio et al., 2020; 53. Silva-Costa and Bugoni, 2013; 54. Berón and Favero, 2009; 55. Berón, 2009; 56. Bugoni and Vooren 2004; 57. Rossi et al., 2019; 58. Vega et al., 2010; 59. Barbieri, 2009; 60. Bugoni, 2006; 61. Carlos et al., 2004; 62. Naves and Vooren, 2006.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SPECIES** | **REFERENCE** | **INTERACTION** |  **TYPE OF PLASTIC** | **ORIGIN OF PLASTIC** | **RATE OF INCIDENCE** | **N** |
| **Order Testudines** |  |  |  |  |  |  |
| **Family Cheloniidae** |  |  |  |  |  |  |
| *Chelonia mydas* | 1 | IN | USE (she, thr, oth) | NR | MEDIUM | 177 |
|  | 2 | IN | USE (she, fra, thr, oth, foa) | URB, FISH | MEDIUM | 49 |
|  | 3 | IN | USE (she, fra, thr, foa, oth) | NR | MEDIUM | 20 |
|  | 4 | IN | USE (she, foa, fra, thr, oth) | URB, FISH | HIGH | 80 |
|  | 5 | IN | USE (she, thr, fra, oth) | NR | MEDIUM | 28 |
|  | 6 | IN | USE (she, foa, fra, thr, oth) | NR | MEDIUM | 15 |
|  | 7 | IN | USE (fra) | URB | NC | 1 |
|  | 8 | IN | NR | NR | LOW | 777 |
|  | 9 | IN | USE (she, thr, fra, oth) | URB, FISH | HIGH | 265 |
|  | 10 | IN | USE (fra, she, thr) | URB, FISH | HIGH | 62 |
|  | 11 | IN | USE (she, thr, foa, fra, oth), IND | URB, FISH | VERY HIGH | 34 |
|  | 12 | IN | USE (she, thr, fra, foa, oth), IND | URB, FISH | VERY HIGH | 48 |
|  | 13 | IN | USE (she, thr, fra, foa) | URB | HIGH | 56 |
|  | 14 | IN | USE (she, thr, fra, foa, oth) | URB | VERY HIGH | 62 |
|  | 15 | IN | USE (fra, she, foa, thr), IND | URB | HIGH | 96 |
|  | 16 | IN | USE (she, foa) | URB | HIGH/VERY HIGH | 184 |
|  | 17 | IN | NR | NR | HIGH | 120 |
|  | 18 | IN | NR | URB, FISH | HIGH | 64 |
|  | 19 | IN | USE (she, thr, fra, oth) | URB, FISH | VERY HIGH | 17 |
| *Caretta caretta* | 6 | IN | USE (she, foa, fra, thr, oth) | NR | NC | 2 |
|  | 20 | IN | USE (fra) | NR | NC | 5 |
|  | 13 | IN | USE (she) | URB | NC | 10 |
|  | 12 | IN | USE (fra, thr, she) | URB, FISH | LOW | 24 |
|  | 16 | IN | USE (she, foa) | URB | VERY LOW/MEDIUM | 57 |
| *Eretmochelys imbricata* | 12 | IN | USE (she) | URB | NC | 2 |
| *Lepidochelys olivacea* | 12 | IN | USE (thr) | FISH | NC | 8 |
|  |  |  |  |  |  |  |
| **Family Dermochelyidae** |  |  |  |  |  |  |
| *Dermochelys coriacea* | 5 | IN | USE (she) | NR | NC | 1 |
|  | 1 | IN | USE (thr, she) | NR | NC | 9 |
|  | 12 | IN | USE (she) | URB | NC | 4 |
|  | 13 | IN | USE (fra) | URB | NC | 2 |
|  | 16 | IN | USE (she, foa) | URB | LOW | 22 |
|  |  |  |  |  |  |  |
| **Infraorder Cetacea, Parvorder Odontoceti** |  |  |  |  |  |  |
| **Family Pontoporiidae** |  |  |  |  |  |  |
| *Pontoporia blainvillei* | 21, 2 | IN | USE (thr, she, fra) | URB, FISH | VERY LOW | 89 |
|  | 22 | IN | USE (she, fra, thr) | URB, FISH, UN | LOW | 49 |
|  | 16 | IN | USE (thr, she) | URB, FISH | VERY LOW | 80 |
|  | 16 | EN | USE (thr) | FISH | VERY LOW | 335 |
| **Family Delphinidae** |  |  |  |  |  |  |
| *Sotalia guianensis* | 21, 2 | IN | USE (thr) | URB, FISH | VERY LOW | 77 |
| *Tursiops truncatus* | 23 | IN | USE (thr) | FISH | VERY LOW | 21 |
| *Globicephala melas* | 16 | IN | USE (she) | URB | NC | 1 |
|  |  |  |  |  |  |  |
| **Family Ziphiidae** |  |  |  |  |  |  |
| *Mesoplodon densirostris* | 24 | IN | USE (thr) | NR | NC | 1 |
|  |  |  |  |  |  |  |
| **Family Kogiidae** |  |  |  |  |  |  |
| *Kogia breviceps* | 25 | IN | USE (she) | URB | NC | 1 |
|  |  |  |  |  |  |  |
| **Infraorder Cetacea, Parvorder Mysticeti** |  |  |  |  |  |  |
| **Family Balaenopteridae** |  |  |  |  |  |  |
| *Balaenoptera physalus* | 16 | EN | USE (thr) | FISH | NC | 1 |
|  |  |  |  |  |  |  |
| **Order Carnivora, Superfamilia Pinnipedia** |  |  |  |  |  |  |
| **Family Otariidae** |  |  |  |  |  |  |
| *Arctocephalus tropicalis* | 26 | IN | USE (thr) | FISH | NC | 14 |
| *Arctocephalus australis* | 27 | IN | NR | NR | NC | 91 |
|  | 28 | IN | USE (she, thr) | URB, FISH | VERY LOW | 133 |
|  | 29 | EN | USE (thr) | FISH | NC | 26 |
|  | 16 | IN | USE (she) | URB | VERY LOW | 1517 |
|  | 16 | EN | USE (thr) | FISH | VERY LOW | 1517 |
| *Otaria flavescens* | 29 | EN | USE (thr) | URB, FISH | NC | 22 |
|  | 29 | IN | USE (thr)  | FISH | NC | 1 |
|  | 26 | IN | USE (thr) | FISH | NC | 11 |
|  |  |  |  |  |  |  |
| **Family Phocidae** |  |  |  |  |  |  |
| *Mirounga leonina* | 16 | EN | USE (thr) | FISH | VERY LOW | 65 |
|  |  |  |  |  |  |  |
| **Order Sphenisciformes** |  |  |  |  |  |  |
| **Family Spheniscidae** |  |  |  |  |  |  |
| *Spheniscus magellanicus* | 30 | IN | USE (fra) | URB, FISH | VERY LOW | 175 |
|  | 31 | IN | USE (she, thr) | FISH, UN | LOW | 40 |
|  | 32 | IN | USE (she, foa, fra, thr) | URB, FISH | HIGH | 144 |
|  | 33 | IN | USE (she, thr) | URB, FISH | LOW | 41 |
|  | 16 | IN | USE (fra) | URB | VERY LOW | 2945 |
|  | 16 | EN | USE (thr) | FISH | VERY LOW | 2945 |
|  | 34 | IN | USE (thr, she, foa) | URB, FISH | VERY HIGH | 46 |
|  | 35 | IN | USE (fra, oth), IND | NR | VERY HIGH | 20 |
|  | 58 | IN | NR | NR | VERY LOW | 47 |
| **Order Procellariiformes** |  |  |  |  |  |  |
| **Family Procellariidae** |  |  |  |  |  |  |
| *Macronectes giganteus* | 36 | IN | USE (foa, fra), IND | URB | NC | 14 |
|  | 11 | IN | USE (fra, foa), IND | URB | NC | 2 |
|  | 32, 37 | IN | USE (thr, foa, fra, she) | URB, FISH | NC | 10 |
|  | 38 | EN | USE (thr)  | FISH | NC |  |
|  | 16 | EN | USE (thr) | FISH | VERY LOW | 62 |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 14 |
| *Macronectes halli* | 39 | IN | USE (fra, thr) | URB | NC | 2 |
| *Procellaria aequinoctialis* | 36 | IN | USE (foa, fra), IND | URB | NC | 4 |
|  | 11 | IN | USE (fra, foa), IND | URB | NC | 1 |
|  | 40 | IN | USE (fra, foa, thr) | URB, FISH | HIGH | 32 |
|  | 41 | IN | USE (fra), IND | URB, FISH | MEDIUM | 114 |
|  | 42 | IN | USE (fra, thr), IND | FISH | VERY LOW | 41 |
|  | 32 | IN | USE (thr, foa, fra, she) | URB, FISH | LOW | 36 |
|  | 38 | EN | USE (thr)  | FISH | NC |  |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 4 |
| *Procellaria conspicillata* | 42 | IN | USE (fra, thr), IND | FISH | LOW | 9 |
| *Daption capense* | 36 | IN | USE (foa, fra), IND  | URB | NC | 4 |
|  | 32 | IN | USE (thr, foa, fra, she) | URB, FISH | NC | 10 |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 4 |
| *Fulmarus glacialoides* | 36 | IN | USE (foa, fra), IND | URB | NC | 3 |
|  | 42 | IN | USE (fra, thr), IND | FISH | NC | 9 |
|  | 32 | IN | USE (thr, foa, fra, she) | URB, FISH | MEDIUM | 49 |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 3 |
| *Pachyptila belcheri* | 36 | IN | USE (foa, fra), IND | URB | NC | 3 |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 3 |
| *Pterodroma incerta* | 40 | IN | USE (fra, foa, thr), IND  | URB, FISH | LOW | 61 |
|  | 43 | IN | NR | NR | LOW | 61 |
| *Pterodroma mollis* | 32 | IN | USE (thr, foa, fra, she) | URB, FISH | NC | 1 |
| *Pterodroma macroptera* | 60 | IN | USE (fra) | NR | NC | 1 |
| *Puffinus puffinus* | 36 | IN | USE (foa, fra), IND | URB | NC | 7 |
|  | 11 | IN | USE (foa, fra), IND | URB | NC | 5 |
|  | 42 | IN | USE (fra, thr), IND | FISH | HIGH | 25 |
|  | 44, 32 | IN | USE (foa, fra, thr, she), IND | URB, FISH | MEDIUM/LOW | 25 |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 7 |
| *Ardenna gravis* | 36  | IN | USE (foa, fra), IND | URB | HIGH | 29 |
|  | 11 | IN | USE (foa, fra), IND | URB | NC | 4 |
|  | 40 | IN | USE (fra, foa, thr) | URB, FISH | VERY HIGH | 21 |
|  | 42 | IN | USE (fra, thr), IND | FISH | VERY HIGH | 18 |
|  | 44, 32 | IN | USE (she, fra, thr, foa, oth), IND | URB, FISH | VERY HIGH/HIGH | 121 |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | HIGH | 29 |
| *Ardenna grisea* | 36 | IN | USE (foa, fra), IND | URB | NC | 11 |
|  | 11 | IN | USE (foa, fra), IND | URB | NC | 1 |
|  | 44, 32 | IN | USE (she, fra, thr, foa, oth), IND | URB, FISH | MEDIUM/LOW | 17 |
|  | 38 | EN | USE (thr) | FISH | NC |  |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 11 |
| *Calonectris borealis* | 40 | IN | USE (fra, foa, thr) | URB, FISH | LOW | 34 |
|  | 32 | IN | USE (thr, foa, fra, she) | URB, FISH | VERY HIGH | 112 |
|  | 45 | IN | USE (fra, foa, oth), IND | URB | HIGH | 185 |
|  | 42 | IN | USE (fra, thr), IND | FISH | NC | 5 |
| *Calonectris edwardsii* | 32 | IN | USE (thr, foa, fra, she) | URB, FISH | NC | 3 |
|  |  |  |  |  |  |  |
| **Family Diomedeidae** |  |  |  |  |  |  |
| *Thalassarche melanophris* | 36 | IN | USE (foa, fra), IND | URB | HIGH | 26 |
|  | 46 | IN | USE (fra, thr, oth), IND | NR | LOW | 35 |
|  | 11 | IN | USE (foa, fra), IND | URB | NC | 2 |
|  | 42 | IN | USE (fra) | URB | VERY LOW | 59 |
|  | 32 | IN | USE (thr, foa, fra, she), | URB, FISH | LOW | 35 |
|  | 47 | IN | IND | URB | VERY LOW | 32 |
|  | 48 | EN | USE (thr) | FISH | NC |  |
|  | 38 | EN | USE (thr) | FISH | NC |  |
|  | 16 | IN | USE (foa) | URB | VERY LOW | 39 |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | HIGH | 26 |
| *Thalassarche chlororhynchos* | 36 | IN | USE (foa, fra). IND | URB | NC | 9 |
|  | 42 | IN | USE (fra, thr). IND | FISH | MEDIUM | 27 |
|  | 32 | IN | USE (thr, foa, fra, she) | URB, FISH | NC | 7 |
|  | 38 | EN | USE (thr) | FISH | NC |  |
|  | 59 | IN | USE (thr, oth, fra), IND | NR | NC | 9 |
| *Diomedea dabbenena* | 47 | IN | USE (thr, fra) | FISH | NC | 6 |
| *Diomedea sanfordi* | 47 | IN | USE (fra) | FISH | LOW | 36 |
|  | 61 | IN | USE (fra), IND | NR | NC | 1 |
| *Diomedea epomophora* | 32 | IN | USE (thr, foa, fra, she) | URB | NC | 2 |
|  | 47 | IN | USE (fra)  | URB | VERY LOW | 23 |
|  | 16 | IN | USE (fra) | URB | NC | 3 |
|  |  |  |  |  |  |  |
| **Order Charadriiformes** |  |  |  |  |  |  |
| **Family Laridae** |  |  |  |  |  |  |
| *Chroicocephalus maculipennis* | 38 | EN | USE (thr) | FISH | NC |  |
| *Larus dominicanus* | 49 | IN | USE (she) | URB | VERY LOW | 806\* |
|  | 50 | IN | USE (thr, she, fra, oth) | URB | LOW | 801\* |
|  | 51 | IN | USE (thr) | FISH | NC | 4 |
|  | 51 | EN | USE (thr) | FISH | NC |  |
|  | 48 | EN | USE (thr) | FISH | NC |  |
|  | 52 | IN | USE (thr, she) | FISH | LOW | 1253\* |
|  | 38 | EN | USE (thr) | FISH | NC |  |
|  | 16 | EN | USE (thr) | FISH | VERY LOW | 508 |
|  | 53 | IN | NR | NR | VERY LOW | 212\* |
| *Larus atlanticus* | 54 | IN | USE (thr) | FISH | VERY LOW | 56 |
|  | 54 | EN | USE (thr) | FISH | VERY LOW |  |
|  | 48 | EN | USE (thr) | FISH | NC |  |
|  | 38 | EN | USE (thr) | FISH | NC |  |
|  | 55 | IN | USE (thr, she) | URB, FISH | VERY LOW | 853\* |
| *Sterna hirundinacea* | 48 | EN | USE (thr) | FISH | NC |  |
|  | 38 | EN | USE (thr) | FISH | NC |  |
| *Sterna hirundo* | 56 | IN | USE (fra, thr) | NR | VERY LOW | 714\* |
|  |  |  |  |  |  |  |
| **Family Chionididae** |  |  |  |  |  |  |
| *Chionis albus* | 48 | EN | USE (thr) | FISH | NC |  |
|  | 38 | EN | USE (thr) | FISH | NC |  |
|  |  |  |  |  |  |  |
| **Family Haematopodidae** |  |  |  |  |  |  |
| *Haematopus palliatus* | 57 | IN | USE (fra, she), IND | URB, FISH | VERY HIGH | 24 |
|  |  |  |  |  |  |  |
| **Family Rynchopidae** |  |  |  |  |  |  |
| *Rhynchops niger* | 62 | IN | NR | NR | VERY LOW | 451\* |
|  |  |  |  |  |  |  |
| **Order Podicipediformes** |  |  |  |  |  |  |
| **Family Podicipedidae** |  |  |  |  |  |  |
| *Podicephorus major* | 48 | EN | USE (thr) | FISH | NC |  |
|  | 16 | IN | USE (she) | URB | VERY LOW | 52 |
|  | 16 | EN | USE (thr) | FISH | VERY LOW | 52 |
| **Order Pelecaniformes** |  |  |  |  |  |  |
| **Family Phalacrocoracidae** |  |  |  |  |  |  |
| *Nannopterum brasilianus* | 16 | EN | USE (thr) | FISH | VERY LOW | 40 |
|  |  |  |  |  |  |  |

List of references on species that interact with plastics in the Warm Temperate Southwest Atlantic.

|  |  |
| --- | --- |
| **No.** | **Reference** |
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**Supplementary Table 3**. List of references used to assess the occurrence and sampling probability of the charismatic marine species in the Río de la Plata estuarine area**.**

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**Supplementary Table 4**. List of references used to assess attributes of charismatic species in the Río de la Plata estuarine area**.**

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