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Table 1: Summary of published data on marine plastic debris ingestion in shark, fish, turtle, bird and mammal species from South Africa and surrounding islands

Taxon	Species	Feeding	Type	Size (mm)	Region	Location	Environment	% Incidence	Items per individual (± s.d.)	Source
Sharks										
Sand tiger shark	<i>Carcharias taurus</i>	Carnivorous	PP, PE, F	plastic bags	KZN		C/O	0.04% of 2268		1
Copper shark	<i>Carcharias brachyurus</i>	Carnivorous	PP, PE	plastic sheets	KZN		C/O	0.06% of 1404		1
Scalloped hammerhead	<i>Sphyrna lewini</i>	Carnivorous	PP, PE		KZN		C/O	0.1% of 1916		1
Great hammerhead	<i>Sphyrna mokarran</i>	Carnivorous	–		KZN		C/O	0 of 177		1
Smooth hammerhead	<i>Sphyrna zygaena</i>	Carnivorous	PP, PE		KZN		C/O	0.17% of 1154		1
Dusky shark	<i>Carcharias obscurus</i>	Carnivorous	PP, PE		KZN		C/O	0.15% of 2741		1
Black tip shark	<i>Carcharias limbatus</i>	Carnivorous	PP, PE		KZN		C/O	0.22% of 1785		1
Bull shark	<i>Carcharias leucas</i>	Carnivorous	PP, PE		KZN		C/O	0.61% of 661		1
Shortfin mako shark	<i>Isurus oxyrinchus</i>	Carnivorous	PP, PE		KZN		C/O	0.87% of 231		1
Tiger shark	<i>Galeocerdo curvier</i>	Carnivorous	PP, PE		KZN		C/O	7.52% of 505		1
Java shark	<i>Carcharhinus amboinensis</i>	Carnivorous	–		KZN		C/O	0 of 222		1
Spinner shark	<i>Carcharhinus brevipinna</i>	Carnivorous	–		KZN		C/O	0 of 1699		1
Sandbar shark	<i>Carcharhinus plumbeus</i>	Carnivorous	–		KZN		C/O	0 of 379		1
Great white shark	<i>Carcharodon carcharias</i>	Carnivorous			KZN		C/O	0.38% of 524		1

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Bony fish										
Razorbelly	<i>Hilsa kelee</i>	Zoobenthivorous	Fb	<1	KZN	Durban Harbour	C		9 ± 3.5	2
Silver silago	<i>Sillago sihama</i>	Zoobenthivorous	Fb	<1	KZN		C		6 ± 5.2	2
Pursemouth	<i>Gerres filamentosus</i>	Zoobenthivorous	Fb	<1	KZN	Durban Harbour	C		8 ± 4.7	2
Glassfish	<i>Ambassis dussumieri</i>	Zoobenthivorous	Fb,F	0.76 ± 0.77	KZN	Durban Harbour	C	69% of 29	0.93 ± 0.75	3
Tilapia	<i>Oreochromis mossambicus</i>	Zoobenthivorous	Fb,F	0.64 ± 0.46	KZN	St Lucia Estuary	C	38% of 29	0.41 ± 0.57	3
Thornfish	<i>Terapon jarbua</i>	Zoobenthivorous	Fb,F	0.94 ± 0.81	KZN	Umgeni Estuary	C	48% of 29	0.66 ± 0.81	3
Juvenile mullet	<i>Mugil</i> sp.	Microphytobenthos	Fb,F	1.09 ± 0.77	KZN	Durban Harbour	C	55% of 29	1.00 ± 1.46	3
Sub-adult mullet	<i>Mugel cephalus</i>	Microphytobenthos	F,Fb,Fl,PS	0.2–15	KZN	Durban Harbour	C	73% of 70	3.8 ± 4.7	4
Turtles										
Loggerhead	<i>Caretta caretta</i>	Benthic carnivorous	F,P,Fl	<30	WC	Cape Town	C	60% of 40	7.7 ± 13.9	5
Loggerhead	<i>Caretta caretta</i>	Jellyfish			WC	Cape Agulhas	C	11% of 37		6
Birds										
Blue petrel	<i>Halobaena caerulea</i>	crustaceans, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	92% of 74		7
Great shearwater	<i>Ardenna gravis</i>	fish, squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	90% of 50		7
White-faced storm petrel	<i>Pelagodroma marina</i>	crustaceans, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	88% of 24		7
Pintado petrel	<i>Daption capense</i>	crustaceans, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	83% of 18		7
Wilson's storm petrel	<i>Oceanites oceanicus</i>	fish, squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	75% of 4		7
Thin-billed prion	<i>Pachyptila belcheri</i>	zooplankton and fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	69% of 32		7

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Antarctic prion	<i>Pachyptila desolata</i>	crustaceans, fish, squid	P,F,Fb, Fm	1–20	SA/SO		B/C/O	59% of 88		7
White-chinned petrel	<i>Procellaria acquinocialis</i>	crustaceans, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	57% of 201		7
Salvin's prion	<i>Pachyptila salvini</i>	crustaceans, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	52% of 31		7
Sooty shearwater	<i>Ardenna grisea</i>	fish, squid, krill	P,F,Fb, Fm	1–20	SA/SO		B/C/O	51% of 63		7
Grey phalarope	<i>Phalaropus fulicarius</i>	zooplankton	P,F,Fb, Fm	1–20	SA/SO		B/C/O	50% of 2		7
Arctic skua	<i>Stercorarius parasiticus</i>	fish, birds	P,F,Fb, Fm	1–20	SA/SO		B/C/O	50% of 2		7
Cory's shearwater	<i>Calonectris diomedea</i>	fish, squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	43% of 7		7
White-bellied storm petrel	<i>Fregetta</i> sp.	squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	38% of 13		7
Grey-backed storm petrel	<i>Garrodia nereis</i>	squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	33% of 12		7
Broad-billed prion	<i>Pachyptila vittata</i>	crustaceans, squid	P,F,Fb, Fm	1–20	SA/SO		B/C/O	30% of 137		7
Kerguelen petrel	<i>Aphrodroma brevirostris</i>	squid, crustaceans, small fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	24% of 63		7
Subantarctic skua	<i>Catharacta antarctica</i>	seabirds, molluscs, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	23% of 494		7
Soft-plumaged petrel	<i>Pterodroma mollis</i>	squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	21% of 29		7
Kelp gull	<i>Larus dominicanus</i>	squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	13% of 52		7
Black-browed albatross	<i>Thalassarche melanophris</i>	fish, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	11% of 18		7
Antarctic fulmar	<i>Fulmarus glacioloides</i>	crustaceans, squid, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	11% of 27		7
Atlantic petrel	<i>Pterodroma incerta</i>	squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	10% of 20		7
Great-winged petrel	<i>Pterodroma macroptera</i>	squid, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	8% of 13		7
Southern giant petrel	<i>Macronectes giganteus</i>	fish, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	7% of 123		7

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Northern giant petrel	<i>Macronectes halli</i>	krill, fish, squid	P,F,Fb, Fm	1–20	SA/SO		B/C/O	7% of 42		7
Antarctic petrel	<i>Thalossoica antarctica</i>	krill, fish, squid	P,F,Fb, Fm	1–20	SA/SO		B/C/O	7% of 30		7
Subantarctic shearwater	<i>Puffinus elegans</i>	squid, fish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	7% of 15		7
Snow petrel	<i>Pagodroma nivea</i>	fish, molluscs	P,F,Fb, Fm	1–20	SA/SO		B/C/O	5% of 22		7
Wandering albatross	<i>Diomedea exulans</i>	octopus, squid, cuttlefish	P,F,Fb, Fm	1–20	SA/SO		B/C/O	4% of 156		7
Atlantic yellow-nosed albatross	<i>Thlassarche chlororhynchos</i>	fish, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	2% of 87		7
Common diving petrel	<i>Pelecanooides urinatrix</i>	crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	2% of 53		7
Southern rockhopper penguin	<i>Eudyptes chrysocome</i>	fish, squid	P,F,Fb, Fm	1–20	SA/SO		B/C/O	1% of 177		7
Grey-headed albatross	<i>Thalassarche chrysostoma</i>	crustaceans, fish, squid	P,F,Fb, Fm	1–20	SA/SO		B/C/O	1% of 170		7
Sooty albatross	<i>Phoebetria fusca</i>	squids, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	1% of 73		7
Bank cormorant	<i>Phalacrocorax neglectus</i>	fish, crustaceans	P,F,Fb, Fm	1–20	SA/SO		B/C/O	1% of 167		7
Mammals										
Subantarctic fur seal	<i>Arctocephalus tropicalis</i>	Myctophid fish							0	8
Antarctic fur seal	<i>Arctocephalus gazella</i>	Myctophid fish							0	8

Type: PP, polypropylene; PE, polyethylene; F, fragments; Fb, fibres; Fl, film; PS, polystyrene; P, pellets; Fm, foam

Region: KZN, KwaZulu-Natal; SA, South Africa; SO, Southern Ocean; WC, Western Cape

Environment: C, coastal; O, oceanic; B, beach

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