

ADVICE TO: PIRSA FISHERIES AND AQUACULTURE (PROF. GAVIN BEGG – EXECUTIVE DIRECTOR)

FROM: PROF SIMON GOLDSWORTHY (SARDI, AQUATIC SCIENCES)

SUBJECT: WILDLIFE INTERACTION REPORTING ACROSS SOUTH AUSTRALIAN FISHERIES 2018/19

DATE: 29 APRIL 2020

KEY ISSUES:

- A policy for reporting wildlife interactions with any threatened, endangered, and protected species (TEPS) covered by Part 13 of the Environment Protection and Biodiversity Conservation Act 1999 within commercial fisheries was introduced by PIRSA Fisheries in July 2007. SARDI Aquatic Sciences has been designated the responsibility to collect, collate, and enter these interactions and report to PIRSA Fisheries.
- This advice note outlines protected species interactions reported in South Australian Managed Fisheries Wildlife Interaction Forms (WIFs) for the period 1 July 2018 to 31 June 2019.

BACKGROUND:

As part of the ongoing requirements under the Environment Protection and Biodiversity Conservation (EPBC) Act 1999, from 1 July 2007 licence holders in all South Australian fisheries are required to report any interactions with listed wildlife species that occur during fishing operations. Species listed under the EPBC Act include all marine mammals and seabirds, marine and freshwater reptiles and some protected fish species, including White Sharks and Sygnathids (seahorses, pipefish).

A Wildlife Interactions Reporting Logbook is provided to all licence holders to ensure all interactions are reported. If any interaction occurs, a form must be filled out on the day of the interaction and sent with the commercial fishing log to SARDI Aquatic Sciences, Fisheries - Information Services unit. SARDI Aquatic Sciences collect, collate, and enter these interactions and report information to PIRSA Fisheries and Aquaculture.

There is a requirement to provide quarterly reports to the Commonwealth Department of Agriculture, Water and the Environment.

RESULTS/DISCUSSION:

Summaries of the protected species interactions reported in South Australian Managed Fisheries Wildlife Interaction Forms (WIFs) for the period 1 July 2018 to 31 June 2019 are attached.

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Protected species interactions reported in South Australian Managed Fisheries Wildlife Interaction Forms (WIFs) for the period 1 July 2018 to 31 June 2019

Total number of protected species interactions (and individuals) reported to interact with each South Australian Managed Fishery for the period 1 July 2018 to 31 June 2019, summarise by broad taxonomic groupings.

Fishery	Cetaceans	Pinnipeds	Birds	Reptiles	Fish	Total
Abalone Fisheries					7 (7)	7 (7)
Charter Boat Fishery					1 (1)	1 (1)
GSV Prawn Fishery					1 (2)	1 (2)
Lakes and Coorong Fishery	1 (5)	559 (2714)				560 (2719)
Marine Scalefish Fishery					1 (1)	1 (1)
Sardine Fishery	90 (362)				2 (3)	92 (365)
SG Prawn Fishery					31 (47)	31 (47)
WC Prawn Fishery					6 (6)	6 (6)
Blue Crab Fishery						0
Northern Zone Rock Lobster Fishery						0
Southern Zone Rock Lobster Fishery						0
Total	91 (367)	559 (2714)	0	0	49 (67)	699 (3148)

Total number of reported protected species interactions by taxonomic group and species, including interaction type, life status and fate with all South Australian Managed Fisheries for the period 1 July 2018 to 31 June 2019.

All South Australian Fisheries

Common name	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Cetaceans	Common dolphin (<i>Delphinus delphis</i>)	33 (152)	84	68	145	7		150	1	1
	Unidentified dolphin spp.	58 (215)	89	126	213	2		208	2	5
	Total	91 (367)	173	194	358	9		358	3	6
Pinnipeds	Long-nosed fur seal (<i>Arctocephalus forsteri</i>)	559 (2714)		2714	2714					2714
	Total	559 (2714)		2714	2714					2714
Birds		Nil to report								
	Total									
Fish	Common seadragon (<i>Phyllopteryx taeniolatus</i>)	1 (2)	2		2			2		
	Great white shark (<i>Carcharodon carcharias</i>)	11 (12)	3	9	10	2		4	1	7
	Leafy seadragon (<i>Phycodurus eques</i>)	1 (7)	7		7			7		
	Pipefish	21 (31)	31		31			31		
	Sea horse	15 (15)	15		14		1	14		1
	Total	49 (67)	58	9	64	2	1	58	1	8
All taxa		699 (3148)	231	2917	3136	11	1	416	4	2728

Total number of reported protected species interactions by taxonomic group and species, including interaction type, life status and fate reported within each South Australian Managed Fishery for the period 1 July 2018 to 31 June 2019. Note: no interactions were report in the Blue Crab and Northern and Southern Zone Rock Lobster Fisheries.

South Australian Sardine Fishery

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Cetaceans	Common dolphin (<i>Delphinus delphis</i>)	33 (152)	84	68	145	7		150	1	1
	Unidentified dolphin spp.	57 (210)	89	121	208	2		208	2	
	Total	90 (362)*	173*	189*	353*	9*		358	3*	1*
Fish	Great white shark (<i>Carcharodon carcharias</i>)	2 (3)	1	2	2	1		3		
	Total	2 (3)	1	2	2	1		3		
All taxa		92 (365)	174	191	355	10		361	3	1

*Note: Numbers represent raw logbook records and differ slightly to those reported in Goldsworthy, S.D. et al. (2019).

https://pir.sa.gov.au/_data/assets/pdf_file/0007/357622/Assessment_of_dolphin_interactions_effectiveness_of_Code_of_Practice_and_fishing_behaviour_in_the_South_Australian_Sardine_Fishery_2018-19.pdf

GSV Prawn Fishery

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Fish	Common seadragon (<i>Phyllopteryx taeniolatus</i>)	1 (2)	2		2			2		
	Total	1 (2)	2		2			2		

Spencer Gulf Prawn Fishery

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Fish	Leafy seadragon (<i>Phycodurus eques</i>)	1 (7)	7		7			7		
	Pipefish	20 (30)	30		30			30		
	Sea horse	10 (10)	10		10			10		
	Total	31 (47)	47		47			47		

West Coast Prawn Fishery

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Fish	Pipefish	1 (1)	1		1			1		
	Sea horse	5 (5)	5		4		1	4		1
	Total	6 (6)	6		5		1	5		1

Marine Scalefish Fishery

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Fish	Great white shark (<i>Carcharodon carcharias</i>)	1 (1)	1			1			1	
	Total	1 (1)	1			1			1	

Lakes and Corrong Fishery

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Cetaceans	Unidentified dolphin spp.	1 (5)		5	5					5
	Total	1 (5)		5	5					5
Pinnipeds	Long-nosed fur seal (<i>Arctocephalus forsteri</i>)	559 (2714)		2714	2714					2714
	Total	559 (2714)		2714	2714					2714
	All taxa	560 (2719)		2719	2719					2719

Abalone Fisheries

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Fish	Great white shark (<i>Carcharodon carcharias</i>)	7 (7)		7	7					7
	Total	7 (7)		7	7					7

Charter Boat Fishery

Taxa group	Common name (Species)	No. of interactions (individuals)	Interaction type		Life status			Fate		
			Caught/ entangled/ impact	Other	Alive, alive/injured	Dead	Unknown	Released/ discarded	Retained	Other
Fish	Great white shark (<i>Carcharodon carcharias</i>)	1 (1)	1		1			1		
	Total	1 (1)	1		1			1		