

Mandarin Shark, *Cirrhigaleus australis*

Report Card assessment	Undefined Stock		
IUCN Red List Australian Assessment	Refer to Global Assessment	IUCN Red List Global Assessment	Data Deficient
Assessors	White, W.T. & Valenti, S.V.		
Report Card Remarks	Little known of catches and biology		

Summary

The Mandarin Shark is a deepwater dogfish in temperate waters of the southwest Pacific. The long dorsal fin spines and demersal habit makes it highly vulnerable to trawl fisheries. It is likely taken as bycatch in the Australian southeast trawl fisheries. Very



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little is known about the biology of this species, however its productivity is presumably low. The lack of information on catches or biology prevent an accurate assessment of status. Given the presumed low productivity and its occurrence in areas where deepwater trawl fisheries operate, further investigation is required. Therefore, the species is assessed as Data Deficient (IUCN) and Undefined Stock (SAFS).

Distribution

The Mandarin Shark occurs from Sydney (New South Wales) to eastern Tasmania, and possibly New Zealand (White et al. 2007).

Stock structure and status

The Mandarin Shark appears to be locally rare which may be a natural characteristic of this species. There is currently no information on population size, structure, or trend for the species.

Fisheries

The Mandarin Shark is taken as bycatch in the Southern and Eastern Scalefish and Shark Fishery (including the East Coast Deepwater Trawl and Commonwealth Trawl sectors) that operates within the species' range off eastern Australia.

Habitat and biology

The Mandarin Shark occurs on the upper continental slope at depths of 360 to 640 m (White et al. 2007). Maximum size is 123 cm total length (TL) (White et al. 2007). Size at maturity is unknown; very little is known about the biology of the species.

Longevity and maximum size	Longevity: unknown Max size: 123 cm TL
Age and/or size at maturity (50%)	Unknown

Link to IUCN Page: <http://www.iucnredlist.org/details/161321/0>

Link to page at Shark References: <http://www.shark-references.com/species/view/Cirrhigaleus-australis>

References

White, W.T., Last, P.R. and Stevens, J.D. 2007. *Cirrhigaleus australis* n. sp., a new Mandarin dogfish (Squaliformes: Squalidae) from the south-west Pacific. *Zootaxa* 1560: 19-30.