

Blue lines indicate the area meeting the ISRA Criteria; dashed lines indicate the suggested buffer for use in the development of appropriate place-based conservation measures

LOS CÓBANOS-ACAJUTLA ISRA

Central and South American Pacific Region

SUMMARY

Los Cóbanos-Acajutla is located in El Salvador, adjacent to the villages of Acajutla and Los Cóbanos. This area includes the coastal Wetland of International Important (Ramsar site) Complejo los Cobános. The area is unique to the region as the only patch of coastal coral reef habitat from Costa Rica to Baja California. The area is also characterised by other habitats including volcanic beaches, mangroves, and estuaries. Within this area there are: threatened species and reproductive areas (Scalloped Hammerhead Sphyrna lewini).

CRITERIA

Criterion A - Vulnerability; Sub-criterion C1 - Reproductive Areas

EL SALVADOR

0-60 metres

_ _

424 km²

_

DESCRIPTION OF HABITAT

Los Cóbanos-Acajutla is located in the Acajutla and Sonsonate municipalities of El Salvador, adjacent to the villages of Acajutla and Los Cóbanos. This area encompasses the Complejo Los Cóbanos Wetland of International Importance (Ramsar site) on the southwest part of El Salvador and the Acajutla area to the westward part. Situated within the Pacific Central-American Coastal Large Marine Ecosystem, there are two rivers, Sensunapan and Banderas, that merge with the Pacific Ocean on the northwest and east sides of the area. Both rivers discharge large loads of sediment and organic matter, and many small estuaries are associated with this zone. Littoral fringes include rocky and sandy shores while subtidal habitats include boulders as well as sandy and muddy patches (Arrivillaga 2009). Subtidal coral colonies exist from 0.5–3 m, where the dominant species is Lobe Coral *Porites lobata*. There are also small colonies of *Psammocora* spp. that cover an area of 0.5–1 km². In deeper waters, there is abundant coverage of soft corals including *Carijoa* spp. as well as more than ten gorgonid species.

This Important Shark and Ray Area is delineated taking into consideration the extent of the Complejo Los Cobános Ramsar site, along with the reach of artisanal fisheries from Acajutla harbour (9 km from the harbour and 5.5 to 9 km from the coast, i.e., the area of most productivity; González Leiva et al. 2017). The area is delineated from inshore and surface waters (0 m) to the maximum depth of the area at 60 m.

ISRA CRITERIA

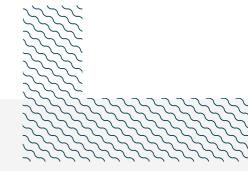
CRITERION A - VULNERABILITY

One Qualifying Species considered threatened with extinction according to the IUCN Red List of Threatened SpeciesTM regularly occurs in the area, the Critically Endangered Scalloped Hammerhead (Rigby et al. 2020)

SUB-CRITERION C1 - REPRODUCTIVE AREAS

Los Cóbanos-Acajutla is an important reproductive area for one shark species.

Landing surveys at three artisanal harbours between September 2015 and August 2016 recorded 578 Scalloped Hammerhead ranging from 30 to 330 cm total length (TL). However, 94% of individuals were <100 cm TL and assessment of sexual maturity revealed 97% of Scalloped Hammerhead were immature, with ~80% classed as neonates. While catch was pooled among harbours, Puerto de Acajutla is reported as the most important landing site of those surveyed (González Leiva et al. 2017).



Acknowledgments

José Alberto Gonzalez Leiva (Sociedad Mesoamericana para la Biología y la Conservación SMBC), José Enrique Barraza (Gavidia University), Mark Priest (IUCN SSC Shark Specialist Group - ISRA Project), and Amanda Batlle Morera (IUCN SSC Shark Specialist Group - ISRA Project) contributed and consolidated information included in this factsheet. We thank the participants of the 2022 ISRA Region 12 – Central and South American Pacific workshop for their contributions to this process.

This factsheet has undergone review by the ISRA Independent Review Panel prior to its publication.

This project was funded by the Shark Conservation Fund, a philanthropic collaborative pooling expertise and resources to meet the threats facing the world's sharks and rays. The Shark Conservation Fund is a project of Rockefeller Philanthropy Advisors.

Suggested citation

IUCN SSC Shark Specialist Group. 2023. Los Cóbanos-Acajutla ISRA Factsheet. Dubai: IUCN SSC Shark Specialist Group.

QUALIFYING SPECIES

Scientific Name	Common Name	IUCN Red List Category	Global Depth Range (m)	ISRA Criteria/Sub-criteria Met								
				A	В	C1	C2	C3	C ₄	C ₅	Dı	D2
SHARKS				•								
Sphyrna lewini	Scalloped Hammerhead	CR	O-1,O43 m	Х		Х						

SUPPORTING SPECIES

Scientific Name	Common Name	IUCN Red List Category				
SHARKS						
Carcharhinus falciformis	Silky Shark	VU				
RAYS						
Aetobatus laticeps	Pacific Eagle Ray	VU				
Hypanus dipterurus	Diamond Stingray	VU				
Hypanus longus	Longtail Stingray	VU				
Mobula mobular	Spinetail Devil Ray	EN				
Narcine vermiculata	Vermiculate Numbfish	LC				
Pseudobatos leucorhynchus	Whitesnout Guitarfish	VU				
Rhinoptera steindachneri	Pacific Cownose Ray	NT				
Styracura pacifica	Pacific Chupare	VU				
Urotrygon chilensis	Blotched Round Ray	NT				
Urotrygon rogersi	Roger's Round Ray	NT				

IUCN Red List categories: CR, Critically Endangered; EN, Endangered; VU, Vulnerable; NT, Near Threatened; LC, Least Concern; DD, Data Deficient.



SUPPORTING INFORMATION

There are additional indications that Los Cóbanos-Acajutla is an important reproductive area for Diamond Stingray and Longtail Stingray. Data on landings from the artisanal fishing harbour of Acajutla collected over 56 survey days from March 2012 to March 2013, recorded 110 individuals of the Longtail Stingray. Of the 40 individuals identified as female, all those with >90 cm disc width (DW) (43%) were pregnant, with 58% of individuals with ovaries containing oocytes. Similarly, of 106 recorded Diamond Stingrays, 40% of the 45 females recorded were pregnant, with 60% of individuals with ovaries containing oocytes. Pregnant females of both species were only recorded between November and March (Galdamez 2014). However, further evidence is needed to confirm regular presence and use of the habitat for reproductive purposes.





Arrivillaga A. 2009. Propuesta de plan de manejo del Área Natural Protegida Complejo Los Cóbanos. Versión borrador. La Libertad: El Salvador United States Agency for International Development.

Galdamez NB. 2014. Aspectos biológicos y pesqueros de las principales especies de la familia Dasyatidae desembarcadas en el puerto artesanal de Acajutla, Sonsonate, El Salvador. Unpublished Bachelor's Thesis, Universidad de El Salvador, San Salvador.

González Leiva JA, Morán Villatoro JM, Chicas Batres, FA. 2017. Pesca artesanal y madurez sexual del tiburón gris Carcharhinus falciformis, tiburón martillo Sphyrna lewini y raya látigo Hypanus longus en El Salvador. Ciencia Pesquera 1: 63-73.

Rigby CL, Dulvy NK, Barreto R, Carlson J, Fernando D, Fordham S, Francis MP, Herman K, Jabado RW, Liu KM, Marshall A, Pacoureau N, Romanov E, Sherley RB, Winker H. 2019. Sphyrna lewini. The IUCN Red List of Threatened Species 2019: e.T39385A2918526.