

Sharks in the Southeastern Pacific: Conservation and Management Challenges in Peru

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Supplementary material

Supplementary material S1. Important Shark and Ray Areas identified in Peru

Code	ISRA	Description	URL
ISRA-EPSB	ECUADOR-PERU SHELF BREAK ISRA	Distribution from Atacames (Ecuador) to Punta Balcones (Peru). Recognized for its high marine productivity, sustained by the Equatorial Front, coastal upwellings, and the Gulf of Guayaquil estuary. It is a key seasonal feeding area for <i>Rhincodon typus</i> (EN), with aggregations of hundreds of juveniles recorded in Tumbes (Perú). The area also hosts other threatened species such as <i>Sphyrna lewini</i> (CR), <i>Carcharhinus brachyurus</i> (VU), and <i>Squatina armata</i> (VU).	https://sharkrayareas.org/wp-content/uploads/isra-factsheets/12CentralSouthPacific/Ecuador-Peru-Shelf-Break-12CentralSouthPacific.pdf
ISRA-ETPMC	EASTERN TROPICAL PACIFIC MARINE CORRIDOR ISRA	Distribution from the Central American Pacific to northern Peru, including international waters of 6 countries. It's recognized for its high ocean connectivity and seasonal upwellings that sustain productive ecosystems serving as a vital food base for <i>Rhincodon typus</i> (EN). It constitutes a vital reproductive area for <i>Sphyrna lewini</i> (CR) and a key migratory corridor for threatened species such as <i>Alopias pelagicus</i> (EN) and <i>Carcharhinus falciformis</i> (VU).	https://sharkrayareas.org/wp-content/uploads/isra-factsheets/12CentralSouthPacific/Eastern-Tropical-Pacific-Marine%20Corridor-12CentralSouthPacific.pdf
ISRA-CPMUS	CENTRAL PERU MAJOR UPWELLING SYSTEM ISRA	Distribution from Lima to central Ica, recognized as one of the most productive ecosystems in the world due to coastal upwelling, and a specific residence area for vulnerable ray species. We can find shark species in critical states such as <i>Mustelus mento</i> (CR), <i>Squatina armata</i> (CR), and <i>Triakis maculata</i> (CR).	https://sharkrayareas.org/wp-content/uploads/isra-factsheets/12CentralSouthPacific/Central-Peru-Major-Upwelling-System-12CentralSouthPacific.pdf
ISRA-HCTZ	HUMBOLDT CURRENT AND TRANSITION ZONE ISRA	A frontier area that includes the Equatorial Front and the Humboldt Current System, it's ecological relevance stemming from the massive amounts of zooplankton present. There is no shark reproduction in the area; however, it is a feeding area for species such as <i>Alopias pelagicus</i> (EN), <i>Alopias vulpinus</i> (EN), and <i>Prionace glauca</i> (NT).	https://sharkrayareas.org/wp-content/uploads/isra-factsheets/12CentralSouthPacific/Humboldt-Current-and-Transition-Zone-12CentralSouthPacific.pdf
ISRA-HCTZ	COASTAL NORTHERN HUMBOLDT CURRENT ISRA	Area extending from Piura to La Libertad, a region of biomass production rich in anchovy and jumbo flying squid. The area supports one of the highest abundances of sharks, with 17 recognized species, 16 of which are classified as threatened or critically endangered. It is a reproductive area for shark species such as <i>Sphyrna zygaena</i> (VU) and <i>Carcharhinus brachyurus</i> (VU).	https://sharkrayareas.org/wp-content/uploads/isra-factsheets/12CentralSouthPacific/Coastal-Northern-Humboldt-Current-12CentralSouthPacific.pdf

