Analyze data from the monitoring program to quantify the level of interaction with protected species.

Preliminary Report of the main interactions between fishing and protected species

BACKGROUND

Many fisheries occur in the areas where ETP (Endangered, Threatened or Protected) species also occur and the possible impacts may are poorly understood. The direct impacts include entanglement, capture and mortality, behavioral or migratory changes. The indirect impact due to competition for resources, loss of habitats and pollution.

Information on catch composition and level of the fishing gears interaction is still being process and will not be available for this report. However, the MSC Fisheries Standard mentions the need to identify those "in-scope" species that are recognized by national threatened species legislation or species that are listed in binding international agreements such the Convention on International Trade in Endangered species (CITES). Species classified as "out-of scope" (amphibians, repitles, birds and mammals) that are listed in the International Union for Conservation of Nature (IUCN) Redlist as vulnerable, endangered, critically endangered (see table I).

Even though there is a presence of species that can be classified as ETP (mainly sharks, rays, and marine turtles) in the area where the Marismas Nacionales shrimp fishery takes place, due to the characteristics of the fishing gear (atarraya) it is highly unlikely that they there is an interaction that is causing direct impacts to ETP species. However, this will be further evaluated when the data from the biological monitoring are available.

Table I Species listed as "vulnerable," "endangered" or "critically endangered" by IUCN and appendix I or II of CITES.

Familia	Scientific name	IUCN	CITES
ACIPENSERIDAE	Acipenser medirostris	Vulnerable	
CARCHARHINIDAE	Carcharhinus limbatus	Vulnerable	
	Carcharhinus obscurus	Endangered	
	Carcharhinus leucas	Vulnerable	
	Carcharhinus longimanus	Critically Endangered	Ш
	Negaprion brevirostris	Vulnerable	Ш
	Carcharhinus brachyurus	Vulnerable	Ш
	Rhizoprionodon longurio	Vulnerable	Ш
	Carcharhinus falciformis	Vulnerable	Ш
SPHYRNIDAE	Sphyrna lewini	Critically Endangered	П
	Sphyrna mokarran	Critically Endangered	Ш
	Sphyrna zygaena	Vulnerable	II
	Sphyrna tiburo	Endangered	П

TRIAKIDAE	Galeorhinus galeus	Critically Endangered	
ALOPIIDAE	Alopias superciliosus	Vulnerable	II
	Alopias pelagicus	Vulnerable	=
	Alopias vulpinus	Vulnerable	=
LAMNIDAE	Isurus oxyrinchus	Endangered	=
	Isurus paucus	Endangered	=
	Carcharodon carcharias	Vulnerable	Ш
DASYATIDAE	Hypanus dipterurus	Endangered	
MOBULIDAE	Mobula thurstoni	Endangered	=
	Mobula tarapacana	Endangered	=
IVIOBOLIDAE	Mobula mobular	Endangered	=
	Mobula birostris	Endangered	II
RHINCODONTIDAE	Rhincodon typus	Endangered	II
CALLIONYMIDAE	Callionymus comptus	Vulnerable	
EPINEPHELIDAE	Mycteroperca jordani	Vulnerable	
	Hyporthodus acanthistius	Vulnerable	
ISTIOPHORIDAE	Istiophorus platypterus	Vulnerable	
	Makaira nigricans	Vulnerable	
SYNGNATHIDAE	Hippocampus ingens	Vulnerable	
CHELONIIDAE	Lepidochelys olivacea	Vulnerable	ı
	Chelonia mydas	Endangered	
	Eretmochelys imbricata	Critically Endangered	I
	Caretta caretta	Vulnerable	ı
DERMOCHELYIDAE	Dermochelys coriacea	Vulnerable	ı

References:

https://www.iucnredlist.org/es

https://cites.org/esp/app/index.php