

Scientific Advisory Committee (SAC)

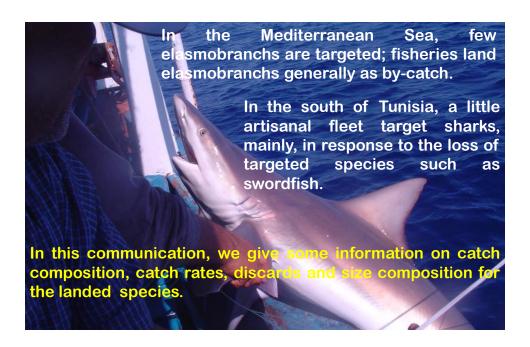
Subcommittee on Marine Environment and Ecosystems (SCMEE) Fourteenth Session



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INTRODUCTION



MATERIALS AND METHODS

In the Gulf of Gabes, two types of longline are used: pelagic and bottom longlines initially targeting respectively swordfish and groupers.

Bottom longline consists of a 10–12 km mainline comprising 1200 to 1800 hooks (size 4 'J' hook).

Baits used: Sardinella aurita | Sepia officinalis.

The mainline of pelagic longline vary from 20 to 50 km and comprising 500–2500 hooks (size 0 'J' hook).

The baits used: mackerel / pieces of rays (Dasyatis sp.).







MATERIALS AND METHODS

The study was based on 41 fishing trip on-board commercial traditional longline boats (from July to September 2007 / 2008):

- 21 (48 sets) with pelagic longline (•).
- 20 (38 sets) with bottom longline (o).



elasmobranchs were identified and their total length (TL) or disc width (DW) (In mm) were recorded. The discarded individuals were registered.

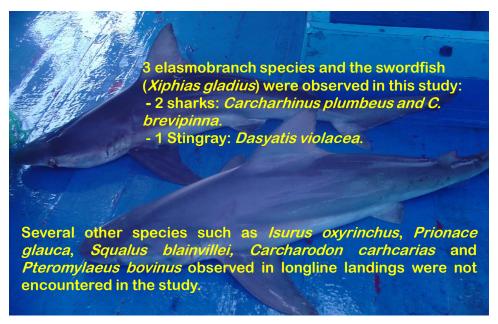
The catch rate was calculated as:

- CPUE1= number of fish/1000 hooks
- CPUE 2 = number of fish/trip

The percentage of discards was determined for each species

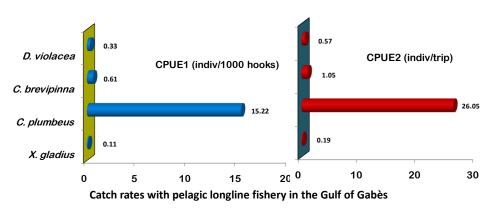
RESULTS: Pelagic longlines

Species composition and catch rates



RESULTS: Pelagic longlines

Species composition and catch rates



Carcharhinus plumbeus was the more landed species.

Carcharhinus brevipinna, Dasyatis violacea and X. gladius were poorly represented in the catch.

RESULTS: Pelagic longlines

Discards

Species	Retained	Discards
	(%)	(%)
Carcharhinus plumbeus	100	0
Carcharhinus brevipinna	100	0
Dasyatis violacea	0	100

The main reasons for discard is the commercial value.

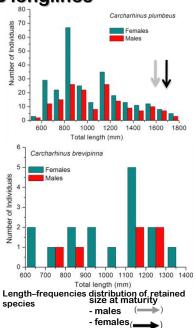


RESULTS: Pelagic longlines

size composition

Females were more common than males.

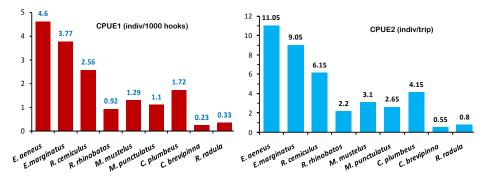
More than 96% of *C. plumbeus* and all *C. brevipinna* individuals caught were juveniles and submature.



RESULTS: Bottom longlines

Species composition and catch rates

Two species of groupers, four sharks, one skate and two guitarfish species were recorded in the 38 bottom longline sets.



Catch rates with bottom longline fishery in the Gulf of Gabès

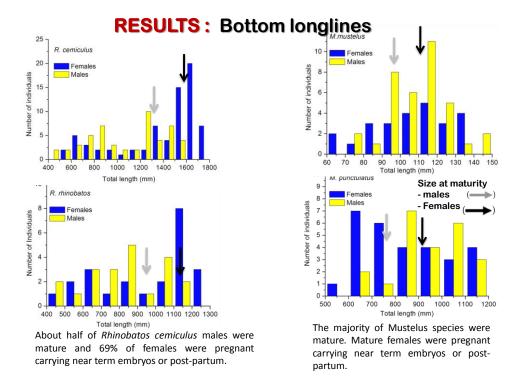
Groupers dominated while catch rates of different elasmobranch species were nearly similar.

RESULTS: Bottom longlines

Discards

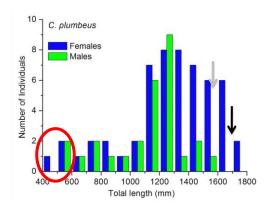
Species	Retained (%)	Discards (%)
Rhinobatos cemiculus	88.6	11.4
Rhinobatos rhinobatos	63.6	36.4
Mustelus mustelus	83.9	16.1
Mustelus punctulatus	88.7	11.3
Carcharhinus plumbeus	100	0
Carcharhinus brevipinna	100	0
Raja radula	0	100

Species with a high commercial value were usually retained, while species with low or no commercial value, such as *Raja radula* were always discarded.



RESULTS: Bottom longlines

size composition



The majority of individuals caught were juveniles. New borns were also captured.

size at maturity
- males
- females(

Conclusion

The abundance of elasmobranchs in capture suggest that these species find favorable conditions to reproduce in the Gulf of Gabès.

The presence of neonates, pregnant post-partum and ovulating females indicates that the area is a pupping or a

