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**SPECIES PHOTOGRAPHIC PLATES
MEDITERRANEAN SHARKS**

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Heptranchias perlo


©F. Serena

Hexanchidae				HXT		30-1000m
EN	Sharpnose Sevengill Shark	FR	Requin Perlon	AB	كلب أبو سبعة	 140cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Hexanchus griseus


©S.P. Iglesias

Hexanchidae				SBL		100-2500m
EN	Bluntnose Sixgill Shark	FR	Requin Grisct	AB	كلب أبو ستة	 500cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Hexanchus nakamurai

©S.P. Iglesias

Hexanchidae				HXN		90-600m
EN	Bigeyed Sixgill Shark	FR	Requin-vache	AB		 180cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						





Carcharias taurus

©G.H. Burgess / ©L. J. Marshall

Odontaspidae				CCT		5 - 200m
EN	Sand Tiger Shark	FR	Requin Taureau	AB	قرش الثور	320cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Odontaspis ferox

©S.P. Iglesias

Odontaspidae				LOO		10 - 900m
EN	Smalltooth Sand Tiger	FR	Requin Féroce	AB	نمر رملي	450cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharodon carcharias

©G.H. Burgess / ©L. J. Marshall

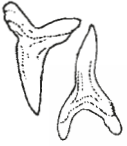
Lamnidae				WSH		0 - 1300m
EN	Great White Shark	FR	Grand Requin Blanc	AB	قرش أبيض كبير	650cm
*SPA / BD PROTOCOL: II / CITES: II / CMS: I & II / ICCAT: NA / GFCM: GFCM/36/2012/3						



Isurus oxyrinchus

©S.P. Iglesias / ©L. J. Marshall

Lamnidae				SMA		0 - 600m
EN	Shortfin Mako	FR	Taupe Bleue	AB	زرقايا	400cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: II / ICCAT: 10-06; 14-06 / GFCM: GFCM/36/2012/3						400cm



Isurus paucus

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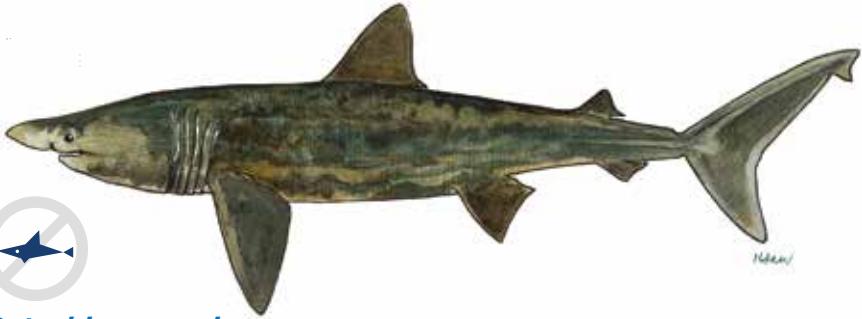
Lamnidae				LMA		120 - 240m
EN	Longfin Mako	FR	Petite Taupe	AB		430cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: II / ICCAT: NA / GFCM: GFCM/36/2012/3						430cm



Lamna nasus

©S.P. Iglesias / ©M. Barone

Lamnidae				POR		0 - 700m
EN	Porbeagle	FR	Requin-Taupe Commun	AB	طوبية	350cm
*SPA / BD PROTOCOL: II / CITES: II / CMS: II / ICCAT: 13-10; 15-06 / GFCM: GFCM/36/2012/3						350cm



Cetorhinus maximus

©FAO*

Cetorhinidae					BSK	0 - 1200m
EN	Basking Shark	FR	Pèlerin	AB	كوسج رحالة	1000cm
*SPA / BD PROTOCOL: II / CITES: II / CMS: I & II / ICCAT: NA / GFCM: GFCM/36/2012/3						



Alopias superciliosus

©R. Bonfil / ©L. J. Marshall

Alopiidae					BTH	50 - 1000m
EN	Bigeye Thresher	FR	Renard à Gros Yeux	AB	ثعلب كبير العين	480cm
*SPA / BD PROTOCOL: NA / CITES: II / CMS: II / ICCAT: 09-07; 13-10 / GFCM: GFCM/36/2012/3						



Alopias vulpinus

©S.P. Iglesias

Alopiidae					ALV	0 - 400m
EN	Thresher	FR	Renard	AB	ثعلب أبو ذنب	600cm
*SPA / BD PROTOCOL: III / CITES: II / CMS: II / ICCAT: 09-07; 13-10 / GFCM: GFCM/36/2012/3						



Galeus atlanticus

©J.Rey / ©J. Rey

Scyliorhinidae				GHA		330 - 790m
EN	Atlantic Sawtail Catshark	FR		AB		46cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Galeus melastomus

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Scyliorhinidae				SHO		200 - 1200m
EN	Blackmouth Catshark	FR	Chien Espagnol	AB	قط أسود الفم	90cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Scyliorhinus canicula

©F. Serena / ©C. Mancusi

Scyliorhinidae				SYC		50 - 400m
EN	Small-Spotted Catshark	FR	Petite Roussette	AB	قط صغير مبرقش	100cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						





Scyliorhinus stellaris

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Scyliorhinidae					SYT		5 - 130m
EN	Nursehound	FR	Grande Roussette	AB	حرتوكة		160cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3							



Galeorhinus galeus

©S.P. Iglesias

Triakidae					GAG		2 - 500m
EN	Tope Shark	FR	Requin-hâ	AB	مُتَسَوِّل		200cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3							



Mustelus asterias

©S.P. Iglesias

Triakidae					SDS		2 - 300m
EN	Starry Smooth-Hound	FR	Émissole Tachetée	AB	كلب نجمي		140cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3							



Mustelus mustelus

©F. Serena

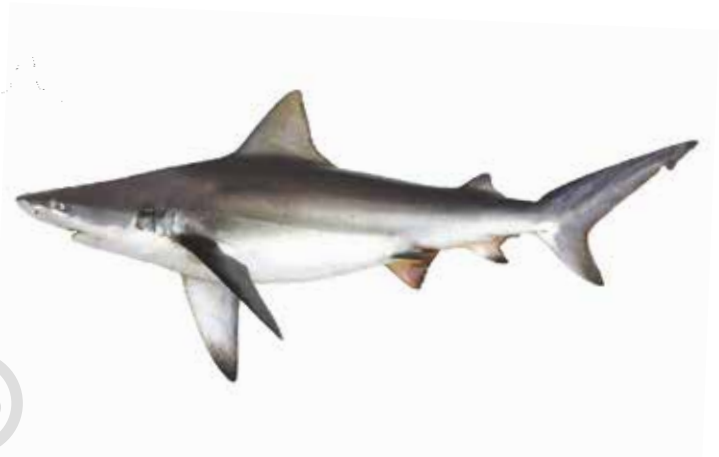
Triakidae				SMD		5 - 450m
EN	Smooth-Hound	FR	Émissole Lisse	AB	كلب ناعم	 165cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Mustelus punctulatus


©F. Serena

Triakidae				MPT		5 - 200m
EN	Blackspotted Smooth-Hound	FR	Émissole Pointillée	AB	كلب مُدَقَّط	 200cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharhinus altimus


©R. Bonfil

Carcharhinidae				CCA		80 - 430m
EN	Bignose Shark	FR	Requin Babosse	AB		 300cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharhinus brachyurus


©M. Dicken

Carcharhinidae				BRO		0 - 100m
EN	Copper Shark	FR	Requin Cuivre	AB	قرش دُحَاسِي	 300cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharhinus brevipinna

©S.P. Iglesias

Carcharhinidae				CCB		0 - 100m
EN	Spinner Shark	FR	Requin Tisserand	AB	قرش لَوَآبِي	 280cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharhinus falciformis

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Carcharhinidae				FAL		0 - 500m
EN	Silky Shark	FR	Requin Soyeux	AB	قرش حَرِيرِي	 330cm
*SPA / BD PROTOCOL: NA / CITES: II / CMS: II / ICCAT: 11-08; 13-10 / GFCM: GFCM/36/2012/3						



Carcharhinus limbatus

©R. Bonfil

Carcharhinidae				CCL		0 - 100m
EN	Blacktip Shark	FR	Requin Bordé	AB	قرش مَكْحَل	255cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharhinus melanopterus

©S.P. Iglesias

Carcharhinidae				BLR		50 - 100m
EN	Blacktip Reef Shark	FR	Requin Pointes Noires	AB		200cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharhinus obscurus

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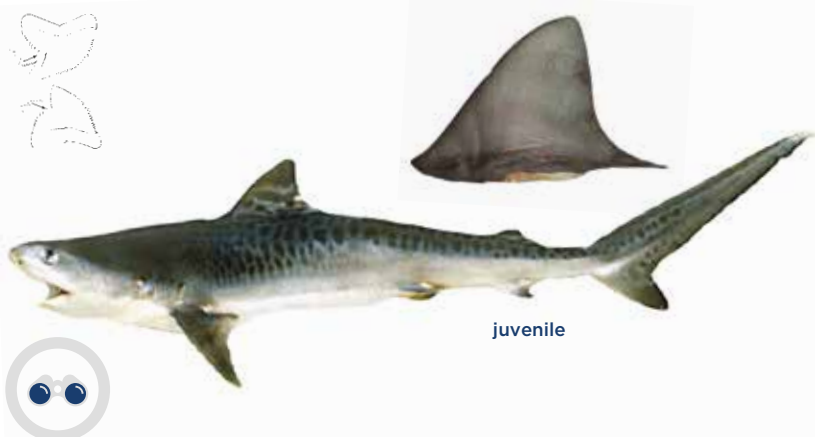
Carcharhinidae				DUS		0 - 400m
EN	Dusky Shark	FR	Requin de Sable	AB	قرش أسود	400cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Carcharhinus plumbeus

©P. Consoli / ©L. J. Marshall

Carcharhinidae					CCP		0 - 280m
EN	Sandbar Shark	FR	Requin Gris	AB	قرش رمادي		300cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3							



juvenile

Galeocerdo cuvier

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Carcharhinidae					TIG		0 - 140m
EN	Tiger Shark	FR	Requin Tigre Commun	AB	قرش نمر		500cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3							



Prionace glauca

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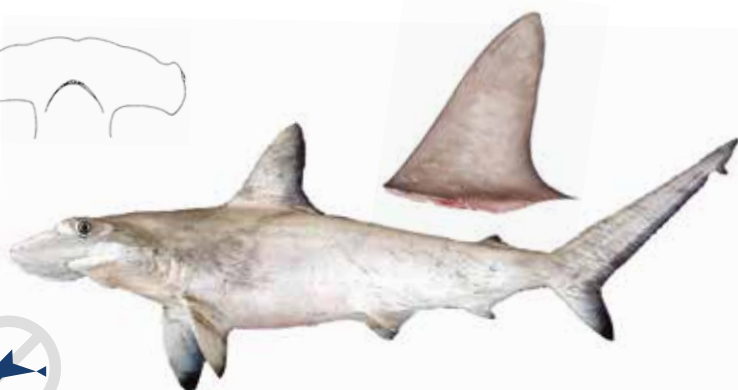
Carcharhinidae					BSH		0 - 350m
EN	Blue Shark	FR	Peau Bleue	AB	قرش أزرق		400cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: NA / ICCAT: 16-12 / GFCM: GFCM/36/2012/3							



Rhizoprionodon acutus

©R. Bonfil

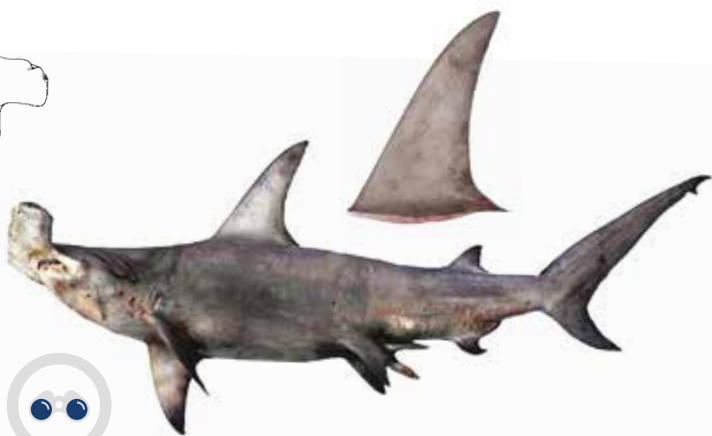
Carcharhinidae				RHA		0 - 200m
EN	Milk Shark	FR	Requin à Museau Pointu	AB	قرش ذو خرطوم مُقرن	 170cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Sphyrna lewini

©M. Dicken / ©L. J. Marshall

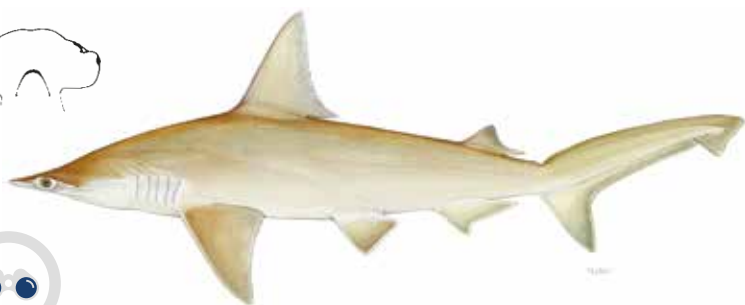
Sphyrnidae				SPL		0 - 280m
EN	Scalloped Hammerhead	FR	Requin-Marteau Halicorne	AB	أبو مطرقة مُحَرَّم	 400cm
*SPA / BD PROTOCOL: // / CITES: // / CMS: // / ICCAT: 10-08; 13-10 / GFCM: GFCM/36/2012/3						



Sphyrna mokarran

©R. Bonfil / ©L. J. Marshall

Sphyrnidae				SPK		0 - 80m
EN	Great Hammerhead	FR	Grand Requin Marteau	AB	أبو مطرقة شائع	 600cm
*SPA / BD PROTOCOL: // / CITES: // / CMS: // / ICCAT: 10-08; 13-10 / GFCM: GFCM/36/2012/3						



Sphyrna tudes

©FAO*

Sphyrnidae				SPQ		0 - 12m
EN	Smalleye Hammerhead	FR	Requin-Marteau à Petits Yeux	AB	أبو مطرقة صغير العينين	
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						150cm



Sphyrna zygaena

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Sphyrnidae				SPZ		0 - 20m
EN	Smooth Hammerhead	FR	Requin-Marteau Commun	AB	أبو مطرقة ناعم	
*SPA / BD PROTOCOL: II / CITES: II / CMS: NA / ICCAT: 10-08; 13-10 / GFCM: GFCM/36/2012/3						400cm

EN English / FR French / AB Arabic Pelagic Demersal Max Length Depth Range *Measures on Conservation & Management



Dalatias licha

©F. Serena

Dalatiidae				SCK		100 - 1800m
EN	Kitefin Shark	FR	Squale Liche	AB	كوسج شراعي الزعنفة	
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						180cm

EN English / FR French / AB Arabic Pelagic Demersal Max Length Depth Range *Measures on Conservation & Management



Etmopterus spinax

©F. Serena

Etmopteridae				ETX		70 - 2000m
EN	Velvet Belly	FR	Sagre Commun	AB	كلب مخملي البطن	 60cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Centroscymsus coelepis

©F. Serena

Somniosidae				CYO		130 - 3600m
EN	Portuguese Dogfish	FR	Pailona Commun	AB	كلب برتغالي	 120cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Somniosus rostratus

©S.P. Iglesias

Somniosidae				SOR		180 - 2200m
EN	Little Sleeper Shark	FR	Laimargue De La Méditerranée	AB	قِرش راقِد صغير	 140cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Oxynotus centrina

©F. Serena

Oxynotidae					OXY		60 - 700m
EN	Angular Roughshark	FR	Centrine Commune	AB	حمار البحر		150cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3							



Centrophorus cf granulosus

©F. Serena

Centrophoridae					GUP		60 - 1400m
EN	Gulper Shark	FR	Squale-Chagrin Commun	AB	كلب أبو عين		120cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3							



Squalus acanthias

©S.P. Iglesias

Squalidae					DGS		10 - 700m
EN	Picked Dogfish	FR	Aiguillat Commun	AB	كلب أبو شوكة مرقط		200cm
*SPA / BD PROTOCOL: III / CITES: NA / CMS: II / ICCAT: NA / GFCM: GFCM/36/2012/3							



Squalus blainville


©F. Serena

Squalidae				QUB		15 - 700m
EN	Longnose Spurdog	FR	Aiguillat Coq	AB	كلب أبو شوكة مؤنّف	 90cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Squalus megalops


©S.P. Iglesias

Squalidae				DOP		70 - 750m
EN	Shornose Spurdog	FR	Aiguillat Nez Court	AB		 70cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Echinorhinus brucus

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Echinorhinidae				SHB		200 - 900m
EN	Bramble Shark	FR	Squale Bouclé	AB		 300cm
*SPA / BD PROTOCOL: NA / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Squatina aculeata

©FAO*

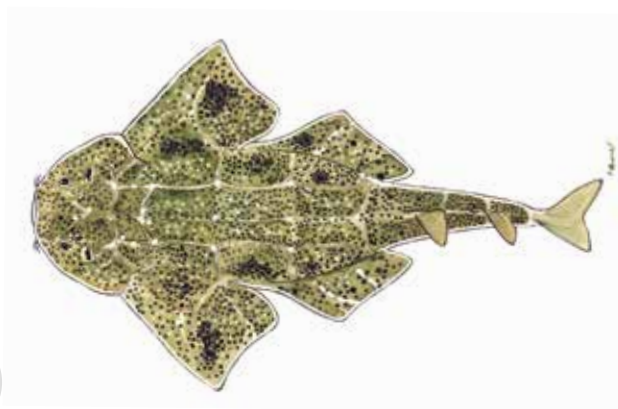
Squatinae				SUA		30 - 500m
EN	Sawback Angelshark	FR	Ange de mer Épineux	AB	ملاك شوكي	200cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: NA / ICCAT: NA / GFCM: GFCM/36/2012/3						



Squatina oculata

©F. Serena

Squatinae				SUT		20 - 500m
EN	Smoothback Angelshark	FR	Ange de mer Ocellé	AB	ملاك مَرَقَط	160cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: II / ICCAT: NA / GFCM: GFCM/36/2012/3						



Squatina squatina

©FAO*

Squatinae				AGN		5 - 150m
EN	Angelshark	FR	Ange de mer Commun	AB	ملاك شائع	250cm
*SPA / BD PROTOCOL: II / CITES: NA / CMS: II / ICCAT: NA / GFCM: GFCM/36/2012/3						

PREPARATION OF THIS DOCUMENT

The aim of this document is to provide species photographic plates to supplement the field guide and cards available for the Mediterranean sharks in the FAO fishing area 37 (see: Serena, 2005. FAO, 2010. Bariche, 2012). The plates are intended to extend and update the photographic collection of the field guides into waterproof plates, in view to become a practical photo collection tool for data collectors in the field. These species photographic plates follow the systematic organization proposed by Eschmeyer, Fricke, and Van der Laan (2017) and the species inside the families are mentioned in alphabetical order according to genus. For each species, the International measures on conservation and management of sharks are up to date to 2016 and the full references are provided below. This document was prepared within the framework of the FAO EastMed Project Scientific and Institutional Cooperation to Support Responsible Fisheries in the Eastern Mediterranean.

ACRONYMS AND ABBREVIATIONS

SPA/BD Protocol:	Protocol of the Barcelona Convention concerning the Specially Protected Areas and Biological Diversity in the Mediterranean.
CITES:	Convention on International Trade in Endangered Species of Wild Fauna and Flora.
CMS:	Convention on the Conservation of Migratory Species of Wild Animals.
GFCM:	General Fisheries Commission for the Mediterranean.
ICCAT:	International Commission for the Conservation of Atlantic Tunas.



This symbol refers to the species that must be released unharmed and alive to the extent possible and cannot be retained on board, transhipped, landed, transferred, stored, sold or displayed or offered for sale. Incidental taking, release and/or discarding events of these species must be recorded by the ship-owners, who are invited to refer to the relevant GFCM



This symbol refers to the species that are very rare or the species whose presence in Mediterranean is considered questionable by the authors, thus their presence need to be confirmed in the region. It is extremely important to look carefully at these species, not only taking photographic and genetic samples, but preserving the whole specimen.

REFERENCES

CITES, 2006	Convention on International Trade In Endangered Species of Wild Fauna And Flora Appendices I, II and III valid from 21 November 2016.
CMS, 2015	Appendices I and II of the Convention on the Conservation of Migratory Species of Wild Animals (CMS). Effective 8 February 2015.
GFCM, 2012	Recommendation GFCM/36/2012/3 on fisheries management measures for conservation of sharks and rays in the GFCM area.
ICCAT, 2008	Recommendation 11-08 by ICCAT on the conservation of Silky sharks caught in association with ICCAT fisheries.
ICCAT, 2009	Recommendation 09-07 by ICCAT on the conservation of Thresher sharks caught in association with fisheries in the ICCAT convention area.
ICCAT, 2010	Recommendation 10-08 by ICCAT on Hammerhead sharks (family Sphyrnidae) caught in association with fisheries managed by ICCAT.
ICCAT, 2010	Recommendation 10-06 by ICCAT on Atlantic Shortfin Mako sharks caught in association with ICCAT fisheries.
ICCAT, 2013	Recommendation 13-10 on biological sampling of prohibited shark species by scientific observers.
ICCAT, 2014	Recommendation 14-05 by ICCAT on Shortfin Mako caught in association with ICCAT fisheries.
ICCAT, 2015	Recommendation 15-06 by ICCAT on Porbeagle caught in association with ICCAT fisheries.
ICCAT, 2016	Recommendation 16-12 by ICCAT on Management Measures for the Conservation of Atlantic Blue Shark caught in association with ICCAT fisheries.
UNEP, 2013	Protocol concerning specially protected areas and biological diversity in the Mediterranean. Annex II. List of endangered or threatened species. United Nations Environment Programme, Mediterranean Action Plan, Regional Activity Centre for Specially Protected Areas.
UNEP, 2013	Protocol concerning specially protected areas and biological diversity in the Mediterranean. Annex III. List of species whose exploitation is regulated. United Nations Environment Programme, Mediterranean Action Plan, Regional Activity Centre for Specially Protected Areas.

Eschmeyer, W. N., R. Fricke and R. van der Laan (eds), 2017. *Catalog of Fishes: Genera, Species, References*. (<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>). Electronic version accessed 10 February 2017.

Bariche, M. 2012. *Field identification guide to the living marine resources of the Eastern and Southern Mediterranean*. FAO Species Identification Guide for Fishery Purposes. Rome, FAO. 2012. 610 pp.

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Serena, F. 2005. *Field identification guide to the sharks and rays of the Mediterranean and Black Sea*. FAO Species Identification Guide for Fishery Purposes. Rome, FAO. 2005. 97p. 11 colour plates + egg cases.

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