

# WESTERN INDIAN OCEAN

FISHING AREA 51

FAO SPECIES IDENTIFICATION SHEETS

## VOLUME 1

### TABLE OF CONTENTS

[Explanatory Notes to the Fao Programme on Species Identification Sheets for Fishery Purposes](#)

[Introduction to this Edition](#)

[User's Guide](#)

[BONY FISHES](#)

[Technical Terms](#)

[General Remarks](#)

[Aid to the identification of families occurring in the Western Indian Ocean](#)

#### **BONY FISHES**

[ACANTHURIDAE](#)

[ACROPOMATIDAE](#)

[ALBULIDAE](#)

[ALEPOCEPHALIDAE](#)

[AMBASSIDAE](#)

[AMMODYTIDAE](#)

[ANGUILLIDAE](#)

[ANTENNARIIDAE](#)

[APLOACTINIDAE](#)

[ARIIDAE](#)

[ARIOMMIDAE](#)

[ATHERINIDAE](#)

[AULOSTOMIDAE](#)

[BALISTIDAE](#)

[BATRACHOIDIDAE](#)

[BELONIDAE](#)

[BERYCIDAE](#)

[BLENNIIDAE](#)

[BOTHIDAE](#)

[BRAMIIDAE](#)

[BRANCHIOSTEGIDAE](#)

[BREGMACEROTIDAE](#)

[CAESIONIDAE](#)

[CALLIONYMIDAE](#)

[CAPROIDAE](#)

[CARANGIDAE](#)

[CENTROLOPHIDAE](#)

[CENTROPOMIDAE](#)

[CEPOLIDAE](#)

[CHAETODONTIDAE](#)

[CHAMPSODONTIDAE](#)

[CHANIDAE](#)

[CHEILODACTYLIDAE](#)

[CHIROCENTRIDAE](#)

[CHLOROPHTHALMIDAE](#)

[CIRRHITIDAE](#)

[CITHARIDAE](#)

[CLINIDAE](#)

[CLUPEIDAE](#)

## TABLE OF CONTENTS

### INTRODUCTORY MATERIAL

EXPLANATORY NOTES TO THE FAO PROGRAMME OF SPECIES  
IDENTIFICATION SHEETS FOR FISHERY PURPOSES

INTRODUCTION TO THIS EDITION

USER'S GUIDE

### BONY FISHES

TECHNICAL TERMS

GENERAL REMARKS

AID TO THE IDENTIFICATION OF FAMILIES OCCURRING IN  
THE WESTERN INDIAN OCEAN

<b>Family</b>	<b>Author</b>	<b>Family</b>	<b>Author</b>
Acanthuridae	J.E. Randall	Bothidae	J. Nielsen
Acropomatidae	P.C. Heemstra	Bramidae	R.L. Haedrich (Rev. R. Nizioka)
Albulidae	J.B. Shaklee	Branchiostegidae	J.K. Dooley
Alepocephalidae	D.F. Markle	bregmacerotidae	D.M. Cohen
Ambassidae	R.P. Vari (Rev.A. Maugé)	Caesionidae	K.E. Carpenter
Ammodytidae	P.C. Heemstra	Callionymidae	R. Fricke
Anguillidae	P.H.J. Castle	Caproidae	P.C. Heemstra
Antennariidae	J.W. Pietsch	Carangidae	W.F. Smith-Vaniz
Aploactinidae	S.G. Pass	Centrolophidae	R.L. Haedrich
Ariidae	K.C. Jayaram (Rev. P. Kailola)	Centropomidae	P.J.P. Whitehead
Ariommidae	R.L. Haedrich	**Cepolidae	W.F. Smith-Vaniz
Atherinidae	W. Ivantsoff	Chaetodontidae	G.R. Allen
Aulostomidae	R.A. Fritzsche	Champsodontidae	P.C. Heemstra
Balistidae	B. Hutchins (Rev. J.C. Tyler)	Chanidae	P.J.P. Whitehead
Batrachoididae	B. Hutchins	Cheilodactylidae	M.M. Smith and M.L. Bauchot
Belonidae	B.B. Collette	Chirocentridae	P.J.P. Whitehead
Berycidae	T. Shimizu	Chlorophthalmidae	B.C. Russel
Blenniidae	H. Bath (Rev. V.G.Springer, W.F. Smith-Vaniz)	Cirrhitidae	J.E. Randall
		Citharidae	J. Nielsen

\* Colour of sheets varies with subject: yellow-edged for general introductory material and Index of Names; blue-edged for technical introductory material to major groups and for Family Sheets; pink-edged for User's Guide; white for Species Sheets. In view of the loose-leaf character of this publication, no reference is made here to the Volumes in which the sheets are presently placed. However, a summary Table of Contents of each volume is given on the respective inner title page

\*\*The extent of reviews varied considerably from case to case. In general terms, the inclusion of a name under this item indicates that the expert concerned received draft material on the subject at some stage of preparation

<b>Family</b>	<b>Author</b>	<b>Family</b>	<b>Author</b>
Clinidae	V.G. Springer (Rev. M.M. Smith)	Muraenidae	P.H.J. Castle
Clupeidae	P.J.P. Whitehead and T. Wongratana	Myctophidae	B.G. Nafpaktitis
Congiopodidae	S.G. Poss	Nemipteridae	B.C. Russell
Congridae	P.H.J. Castle	Nomejdae	R.L. Haedrich and R. Nzioka
Coracinidae	M.L. Bouchot and M.M. Smith	Notocheiridae	W. Ivantsoff
Coryphaenidae	B.B. Collette	Ophichthidae	P.H.J. Castle
Cynoglossidae	A.G.K. Menon	Ophidiidae (including Brotulidae)	J. Nielsen
Dactylopteridae	S.G. Poss	Opistognathidae	W.F. Smith-Vaniz
Diodontidae	J.M. Leis	Oplegnathidae	P.C. Heemstra
Diretmidae	A. Post	Oreosomatidae	G.D. James
Drepanidae	A. Maugé (Rev. P.C. Heemstra)	Ostraciidae	B. Hutchins (Rev. J.C. Tyler)
Echeneidae	E.A. Lachner and B.B. Collette	Paralepididae	A. Post
Elopidae	P.J.P. Whitehead	Pempheridae	J.M. Rose (Rev. J. Paxton)
Emmelichthyidae	P.C. Heemstra	Pentacerotidae	P.C. Heemstra
Engraulidae	P.J.P. Whitehead and T. Wongratana	Percophidae	P.C. Heemstra and J.S. Nelson
Ephippidae	A. Maugé (Rev. P.C. Heemstra)	Plotacidae	A. Maugé (Rev. P.C. Heemstra)
Exocoetiaae	N.V. Parin (Rev. R.H. Gibbs, Jr.)	Platycephalidae	L.W. Knapp
Fistulariidae	R.A. Fritzsche	Pleuronectidae	J. Nielsen
Gempylidae	I. Nakamura	Plotosidae	J.R. Gomon
Gerreidae	D.J. Woodland	Polynemidae	A.G.K. Menon and M. Babun Rao
Gonorhynchidae	P.J.P. Whitehead	Pomacanthidae	G.R. Allen
Gonostomatidae	G.W. Bond	Pomacentridae	G.R. Allen
Grammicolepidae	D.J. Bray	Pomatomidae	B.B. Collette and M.M. Smith
Grammistidae	J.E. Randall	Priacanthidae	W.C. Starnes
Haemulidae	R.J. McKay	Psettodidae	J. Nielsen
Harpadontidae	P.J.P. Whitehead	Rachycentridae	B.B. Collette
Hemiramphidae	B.B. Collette	Regalecidae	M.L. Bouchot
Holocentridae	J.E. Randall	Scaridae	R.W. Bruce and J.E. Randall
Istiophoridae	I. Nakamura	Scatophagidae	G.R. Allen
Kuhliidae (= Duleidae)	P.C. Heemstra	Sciaenidae	R.S. Lai Mohan (Rev. E. Trewa vas and P.J.P. Whitehead)
Kyphosidae	A. Maugé (Rev. P.C. Heemstra)	Scomberidae	B.B. Collette
Labridae	M.F. Gomon and J.E. Randall	Scombrolabracidae	I. Nakamura
Lactariidae	M. Kumaran	Scorpaenidae	G.S. Poss and K.V. Rama Roo
Leiognathidae	P.S.B.R. James (Rev. D.J. Woodland and G. Jones)	Serranidae	P.C. Heemstra and J.E. Randall
Lethrinidae	T. Sato and M. Walker (Rev. J.E. Randall)	Siganidae	D.J. Woodland
Lobotidae	P.C. Heemstra	Sillaginidae	R.J. McKay
Lophiidae	J.H. Caruso	Soleidae	A.G.K. Menon
Lophotidae	M.L. Bouchot	Sparidae	M.L. Bouchot and M.M. Smith
Lutjanidae	G.R. Allen (Rev. T. Senta)	Sphyraenidae	J.H. Rose (Rev. P.J.P. White head and J.E. Randall)
Macrorhamphosidae	R.L. Haedrich	Stromateidae	R.L. Haedrich
Macrouridae	T. Iwamoto	Synodontidae	R. Cressey and R.S. Waples
Malacanthidae	J.K. Dooley	Teraponidae	R. Vari
Megalopidae	P.J.P. Whitehead	Tetragonuridae	R.L. Haedrich
Menidae	P.C. Heemstra	Tetraodontidae	G.S. Hardy and B. Hutchins (Rev. J.C. Tyler)
Molidae	W.B. Scott (Rev. B. Hutchins and J.C. Tyler)	Toxotidae	G.R. Allen
Monacanthidae	B. Hutchins	Trachichthyidae	P.C. Heemstra
Monocentridae	R.J. Paxton	Trachipteridae	M.L. Bouchot
Monodactylidae	P.C. Heemstra	Triacanthidae	B. Hutchins (Rev. J.C. Tyler)
Moridae	D.M. Cohen	Trichiuridae	I. Nakamura
M Mugilidae	J.M. Thomson and G. Luther	Triglidae	W.J. Richards
Mugiloididae	P.C. Heemstra	Uranoscopidae	P.C. Heemstra
Mullidae	M. Kumaran and J.E. Randall	Xiphiidae	I. Nakamura
Muraenesocidae	P.H.J. Castle	Zeidae	P.C. Heemstra

**CHIMAERAS**

**Author:** L.J.V. Compagno

GENERAL REMARKS

KEY TO FAMILIES, GENERA AND SPECIES REPORTED FROM THE AREA

LIST OF FAMILIES AND SPECIES OCCURRING IN THE AREA

**SHARKS**

**Author:** L.J.V. Compagno

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

GENERAL REMARKS

KEY WITH PICTURE GUIDE TO FAMILIES OCCURRING IN THE AREA

LIST OF SPECIES OCCURRING IN THE AREA

**Family**

Alopiidae  
Carcharhinidae  
Chlamydoselachidae  
Echinorhinidae  
Ginglymostomatidae  
Hemigaleidae  
Hemiscylliidae  
Heterodontidae  
Hexanchidae  
Lamnidae  
Mitsukurinidae

**Family**

Odontaspidae  
Pristiophoridae  
Proscylliidae  
Pseudocarchariidae  
Pseudotriakidae  
Rhinodontidae  
Scyliorhinidae  
Sphyrnidae  
Squalidae  
Squatinae  
Stegostomatidae  
Triakidae

**LOBSTERS**

**Author:** L.B. Holthuis

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

GENERAL REMARKS

GUIDE TO FAMILIES OCCURRING IN THE AREA

LIST OF SPECIES OCCURRING IN THE AREA

**Family**

Nephropidae  
Palinuridae  
Synaxidae  
Scyllaridae

**SHRIMPS AND PRAWNS**

**Author:** J.C. Miquel

TECHNICAL TERMS

GENERAL REMARKS

LIST OF FAMILIES OCCURRING IN THE AREA

SHRIMPS AND PRAWNS (continued)

**Family**

Alpheidae  
Aristeidae  
Hyppolytidae  
Palaemonidae

**Family**

Pandalidae  
Penaeidae  
Sergestidae  
Sicyoniidae  
Solenoceridae

**SEA TURTLES**

**Author:** R. Marquez M.

TEHCNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

GENERAL REMARKS

GUIDE TO FAMILIES AND GENERA OCCURRING IN THE AREA

PICTURE GUIDE TO SPECIES OCCURRING IN THE AREA

**Family**

Chelonidae  
Dermochelidae