



Shark and ray identification manual

for observers and crew of the western and central Pacific tuna fisheries

by Timothy Park, Lindsay Marshall, Aymeric Desurmont, Boris Colas and Neville Smith

The SPC Shark and ray identification manual for observers and crew of the western and central Pacific tuna fisheries

Although sharks and rays are an incidental bycatch of pelagic tuna fisheries, these fisheries are accredited by the International Commission for the Conservation of Atlantic Tunas (ICCAT) and the Western and Central Pacific Fisheries Commission (WCPFC).

Download the complete  version:

[pdf: {pdfsize Manuals/Park_19_Shark_and_Ray_ID_Manual.pdf}](#)



Table of contents

Introduction

 [pdf: {pdfsize Manuals/Parts/Park_19_Shark_and_Ray_ID_Manual_Chap1.pdf}](#)

Main shark and ray external features and measurements

 [pdf: {pdfsize Manuals/Parts/Park_19_Shark_and_Ray_ID_Manual_Chap2.pdf}](#)

Keys for shark and ray identification

 [pdf: {pdfsize Manuals/Parts/Park_19_Shark_and_Ray_ID_Manual_Chap3.pdf}](#)

Species illustrations and details

 [pdf: {pdfsize Manuals/Parts/Park_19_Shark_and_Ray_ID_Manual_Chap4.pdf}](#)

WCPFC shark and ray handling guidelines for purse-seiner and longliner crew

 [pdf: {pdfsize Manuals/Parts/Park_19_Shark_and_Ray_ID_Manual_Chap5.pdf}](#)

Indexes and glossary

 [pdf: {pdfsize Manuals/Parts/Park_19_Shark_and_Ray_ID_Manual_Chap6.pdf}](#)

©All rights for commercial / for profit reproduction or translation, in any form, reserved. The SPC authorises the partial reproduction or translation of this material for scientific, educational or research purposes, provided that SPC and the source document are properly acknowledged. Permission to reproduce the document and/or translate in whole, in any form, whether for commercial / for profit or non-profit purposes, must be requested in writing. Original SPC artwork may not be altered or separately published without permission.