



CHUMBE ISLAND
CORAL PARK

25 Years

1998 - 2023

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Dr. Hans-Wilhelm Leyendecker
 Ludwigstraße 36 F
 D-63179 Obertshausen
 Germany
w.leyendecker@t-online.de

Edition 2024

Volume 4: Reef fish

Underwater Photo-Guide

Chumbe Island Coral Park

Underwater
Photo-Guide



CHUMBE ISLAND
CORAL PARK

Volume 4:
Reef fish and
Sea turtles

Edition 2024



Foreword

Dear visitors!

Chumbe Island Coral Park (CHICOP) was established in 1992 as the world's first private Marine Protected Area (MPA) and believe it or not, it is still the only privately managed MPA in East Africa! As we are celebrating our 25th ecotourism anniversary on Chumbe Island, we proudly look back at two and a half decades of running extensive conservation programmes, alongside a large-scale environmental education programme, all made possible thanks to the revenues generated through our ecotourism activities. We have received many international awards and recognitions over the years and are particularly proud of the special mention by the UN Secretary General in his report to the General Assembly in 2011 on the protection of coral reefs for sustainable livelihoods and development, highlighting the sustainable management and protection of the Chumbe Reef Sanctuary, as well receiving the "Oscar for Marine Conservation", the "Global Ocean Refuge Award for Most Effective Conservation of Marine Life". We are very thankful to you, our guests, who make all our work possible.

What is special about Chumbe Reef Sanctuary?

Despite its relatively small size (55 ha), the Chumbe Reef Sanctuary is a significant and well enforced no-take area that has effectively been managed for nearly 30 years. Famous for its incredible biodiversity, the marine environment is teeming with life. Nearly 60 hard coral genera act like trees in a forest: they provide home, shelter and food for an impressive number of over 400 identified fish species and more than 235 recorded invertebrate species up to now.

What is special about these guide books?

These guide books were developed by a family that has been returning to Chumbe Island for 21 years! Countless hours' snorkelling in the Chumbe Reef Sanctuary, subsequent identification with the Chumbe Conservation Team and tireless editing back home in Germany resulted in Chumbe's first and unique underwater photo-guide in 2011. From there, the project has further developed into this edition 2024 which has grown into 6 book volumes.

We are especially honoured to have returning guests such as the Leyendecker family, and what an impressive work they have done with these guide books which have become the most popular and valued marine reference books on Chumbe Island. What an amazing achievement!

Happy species identification!



Ulli Kloiber
Scientific adviser, Marine Biologist
Chumbe Island Coral Park



Dear visitors of Chumbe Island!

Thank you for your attention to this underwater photo guide which not only aims at showing you the beauty and diversity in the Chumbe Reef – its goal is also to inspire you to tell your family and friends about this special place, as visitors like us, who decide to stay on Chumbe Island, are the sustainable funding mechanism of this very unique conservation project.

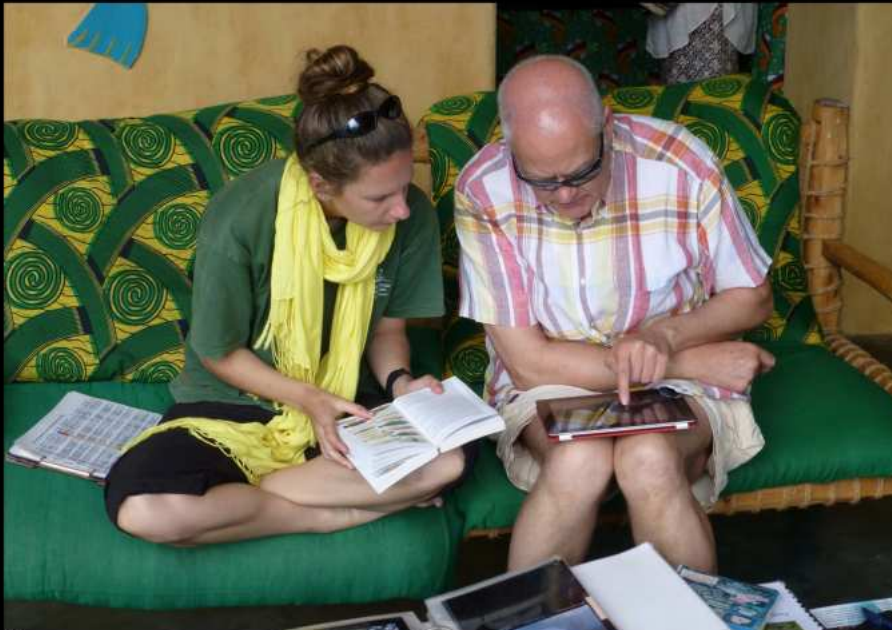
Our photo guide, edition 2024 is a collection of six volumes. Volume 1 to 4 focus on fish species and also include the common sea turtle species, while volume 5 and 6 takes a look at the high diversity of colorful invertebrate species found in the Chumbe reef.

The following pages of Volume 4 include 103 identified fish species and 2 sea turtles which we have discovered during our numerous snorkeling trips. However, this is only the tip of the iceberg, as an even higher diversity still lies hidden under the water surface, waiting to be discovered.

If you have taken a great photograph in the reef and you would like to contribute your image to our gallery, please send a high resolution copy to the Chumbe office: conservation@chumbeisland.com.

Enjoy!

October 2024
Obertshausen, Germany
Dr. Hans-Wilhelm Leyendecker, Editor



Dear experts!

We need your help and assistance to further develop our photo guide.

It is our goal, to create a photo guide that holds accurate and scientifically correct information about the marine species found in the marine protected area.

We know, that this is not an easy task, given the fact that we are using only photographic evidence for species identification. However, together with your knowledge and experience, we will be able to increase the quality of scientific information presented in this guide book.

If you find any incorrect information in this guide, please inform the Chumbe management (conservation@chumbeisland.com) and help us to make the next edition an even better one!

Thank you for your support.

October 2024
 Obertshausen, Germany
 Dr. Hans-Wilhelm Leyendecker, Editor

Introduction: How to use this photo-guide?

The main aim of this photo guide is to allow YOU, the snorkeller, to identify the fishes you see when snorkeling in the Chumbe Reef Sanctuary. Since over 530 identified fish species are inhabiting this reef (and many more are awaiting discovery!), this can be a challenging and confusing mission, especially for a beginner!



Many fish species have different colours in their juvenile and adult forms, in many cases juvenile, adult males and females have different colours and/or patterns, and on top of that many fish can change their colours in just a matter of seconds to match their mood or background. Also keep in mind that colour changes rapidly with depth as water absorbs light at the red end of the spectrum, which means for example that a purple fish in the shallow reef may appear blue when seen at a greater depth at the reef edge.

Now you can imagine that identifying a new fish is never that easy and trying to learn all the different species within the timeframe of a typical holiday is almost impossible! Therefore, we have put together some tips to help you to improve your identification skills which will make your snorkel experience even more fun and interesting:





























Get familiar with the common reef fish families (or just your favourites) and find out about their appearance and behaviour (our guiding rangers can help you with that). With a bit of knowledge it's easy to correctly identify most fish families and it is much easier to ID a fish if you know which family it is from.

The top 10 families seen in the Chumbe Reef are:

1. Damselfish / Pomacentridae
2. Wrasses / Labridae
3. Groupers / Serranidae
4. Snappers / Lutjanidae
5. Parrotfish / Scaridae
6. Angelfish / Pomacanthidae
7. Butterflyfish / Chaetodontidae
8. Sweetlips / Haemulidae
9. Rabbitfish / Siganidae
10. Surgeonfish / Acanthuridae

Don't just look at the fishes' appearance, observe it's behaviour as well. What the fish is doing can be just as helpful as what it looks like when you are trying to identify it. Is it on the bottom or hovering above the reef? Is it on its own or in a group? How does it swim and which fins does it use?

The slate below gives you an idea of what to look out for to help you identify a fish more easily.

Features		Behaviour
 <input type="checkbox"/> barbels  <input type="checkbox"/> cirri	 Pectoral fin  Dorsal fins  Ventral or Pelvic fin  Anal fin  Tail or Caudal fin  Base of Tail	<input type="checkbox"/> finlets & scutes <input type="checkbox"/> scalpal
Tail Fin  <input type="checkbox"/> indented  <input type="checkbox"/> round  <input type="checkbox"/> square  <input type="checkbox"/> forked  <input type="checkbox"/> lunate  <input type="checkbox"/> pointed	Location <input type="checkbox"/> on reef <input type="checkbox"/> above reef <input type="checkbox"/> away from reef <input type="checkbox"/> on the bottom	
Dorsal Fin  <input type="checkbox"/> single  <input type="checkbox"/> split  <input type="checkbox"/> trigger  <input type="checkbox"/> spine  <input type="checkbox"/> triangular  <input type="checkbox"/> trailing	Alliances <input type="checkbox"/> alone <input type="checkbox"/> in a pair <input type="checkbox"/> in a small group <input type="checkbox"/> in a school	
Front on  <input type="checkbox"/> round  <input type="checkbox"/> standard  <input type="checkbox"/> thin  <input type="checkbox"/> flat	Activities <input type="checkbox"/> swimming <input type="checkbox"/> siting <input type="checkbox"/> hovering <input type="checkbox"/> hiding <input type="checkbox"/> hunting <input type="checkbox"/> eating <input type="checkbox"/> patrolling	
Side on  <input type="checkbox"/> slender  <input type="checkbox"/> round  <input type="checkbox"/> standard	Character <input type="checkbox"/> territorial <input type="checkbox"/> shy <input type="checkbox"/> aggressive <input type="checkbox"/> docile <input type="checkbox"/> lively <input type="checkbox"/> curious	
Body Shape  <input type="checkbox"/> elongated		

Try and look for your fish in this guide or another fish book as soon after the snorkeling as possible. Memories fade fast, especially when confronted with a page of 10 very similar looking reef fish.

Don't place too much importance on common English or German names. If you look a fish up in two different books, the chances are high that it will have different names, so if you want to compare between books - use the scientific name instead. These Latin names may at first sight seem unnecessarily long and unpronounceable, but they have the great advantage of being international!

With 413 fish species represented here in volume 1 to 4 of this guide are far away from being complete, however, it aims at displaying the commoner and more conspicuous fishes on the reef.

Let the mission start!



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Sphyraenidae

Barracudas



Sphyraena flavicauda

Gelbschwanz-Barrakuda

Yellowtail barracuda
2010 Chumbe Island, Zanzibar

Sphyraenidae

Barracudas



Sphyraena flavicauda
Photo: Leyendecker

Gelbschwanz-Barrakuda

Yellowtail barracuda
2016 Chumbe Island, Zanzibar



juvenile

Sphyraenidae

Barracudas



Sphyraena forsteri

Großaugen-Barrakuda

Bigeye barracuda
2012 Chumbe Island, Zanzibar

Sphyraenidae

Barracudas



Sphyraena qenie
Photo: Aaron Critchley

Querbänder-Barrakuda

Blackfin barracuda
2016 Chumbe Island, Zanzibar



Pinguipedidae

Sandperches



Parapercis hexophtalma

Schwanzfleck-Sandbarsch

Speckled sandperch
2013 Chumbe Island, Zanzibar



Blenniidae

Blennies



Aspidontus taeniatus
Photos: Dr. H.-W. Leyendecker

Falscher Putzerfisch

Striped blenny
2013 Chumbe Island, Zanzibar



Blenniidae

Blennies



Blenniella periophthalmus
Photo: Kerstin Erler

Chromosomen-Felsenspringer

Blue-dashed rockskipper
2017 Chumbe Island, Zanzibar

Blenniidae

Blennies



Blenniella chrysopilos
Photo: Leyendecker

Rottupfen-Schleimfisch
2016 Chumbe Island, Zanzibar

Red spotted blenny

Blenniidae

Blennies



Blenniella chrysopilos
Photo: Leyendecker

Rottupfen-Schleimfisch
2016 Chumbe Island, Zanzibar

Red spotted blenny

Blenniidae

Blennies



Cirripectes castaneus Kastanien-Schleimfisch Chestnut eyelash-blenny
Photo: Dr. H.-W. Leyendecker 2019 Chumbe Island, Zanzibar

Blenniidae

Blennies



Cirripectes castaneus Kastanien-Schleimfisch Chestnut eyelash-blenny
Photo: Martin Leyendecker 2015 Chumbe Island, Zanzibar

Blenniidae

Blennies



Cirripectes stigmaticus Rottupfen-Schleimfisch Redstreaks blenny
2007 Chumbe Island, Zanzibar

Blenniidae

Blennies



Cirripectes stigmaticus Rottupfen-Schleimfisch Redstreaks blenny
Photo: Dr. H.-W. Leyendecker 2016 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2016



Photo: Dr. H.-W. Leyendecker 2011

Blenniidae

Blennies



Exallias brevis

Leoparden-Schleimfisch

Leopard blenny

2007 Chumbe Island, Zanzibar

Blenniidae

Blennies



Exallias brevis

Leoparden-Schleimfisch

Leopard blenny

2014 Chumbe Island, Zanzibar



Photo: Leyendecker 2016



Blenniidae

Blennies



Istiblennius lineatus Kammzahnschleimfisch Lined rockskipper
Photo: Dr. Martin Leyendecker 2022 Chumbe Island, Zanzibar

Blenniidae

Blennies



Meiacanthus mossambicus Mosambik-Säbelzahn-Schleimfisch Mozambique fangblenny
2012 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2013 Chumbe Island, Zanzibar

Blenniidae

Blennies



Petroscirtes lupus
Photos: Martin Leyendecker

dorsal fin (above)
belly (down)

Brown sabretooth blenny
2018 Chumbe Island, Zanzibar



Blenniidae

Blennies



Petroscirtes lupus
Photos: Martin Leyendecker

mouth (above)

Brown sabretooth blenny
2018 Chumbe Island, Zanzibar



Petroscirtes lupus
Photo: Dr. Valentina Herbring

Brown sabretooth blenny
2023 Chumbe Island, Zanzibar

Blenniidae

Blennies



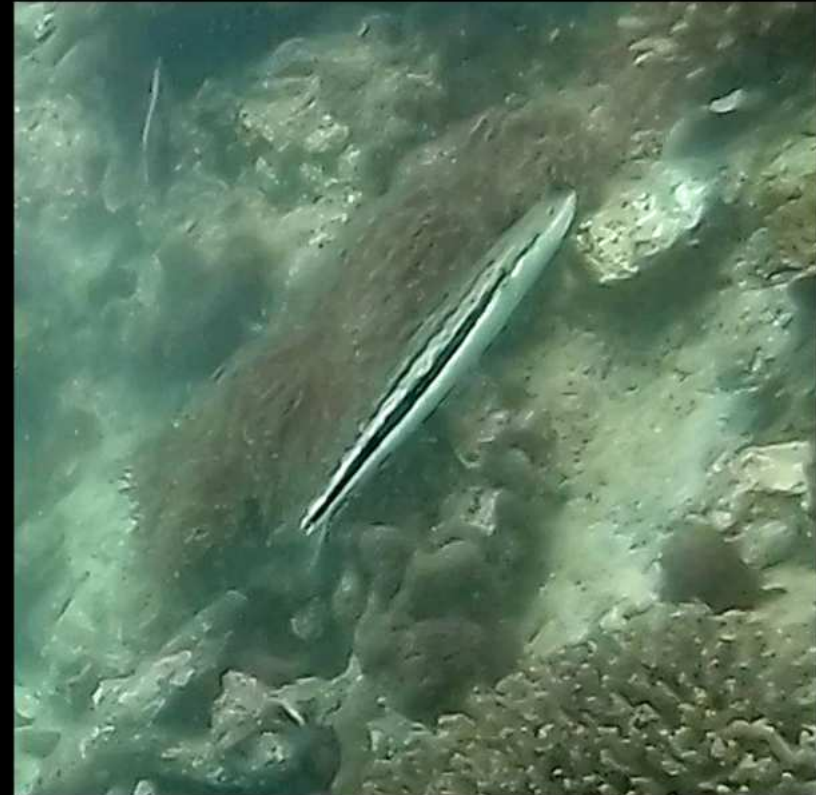
Petroscirtes xestus
Photo: Dr. Martin Leyendecker

Säbelzahnschleimfisch

Smooth fangblenny
2022 Chumbe Island, Zanzibar

Blenniidae

Blennies



Plagiotremus goslinei
Photo: Martin Leyendecker

Säbelzahnschleimfisch

Gosline's fangblenny
2018 Chumbe Island, Zanzibar

Blenniidae

Blennies



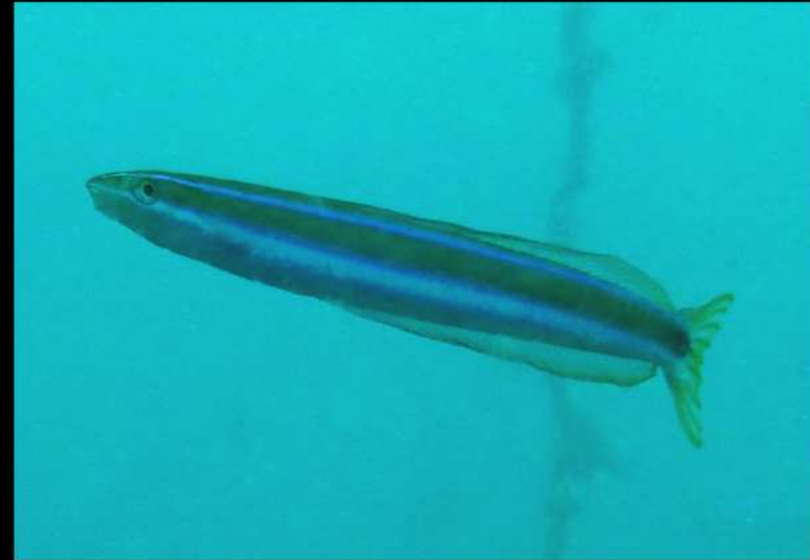
Plagiotremus rhinorhynchos
Photo: Dr. Valentina Herbring

Blaustreifen-Säbelzähner

Bluestriped fangblenny
2022 Chumbe Island, Zanzibar

Blenniidae

Blennies



Plagiotremus rhinorhynchos
Photo: Martin Leyendecker

Blaustreifen-Säbelzähner

Bluestriped fangblenny
2018 Chumbe Island, Zanzibar



Plagiotremus rhinorhynchos
Photo: Dr. M. Leyendecker

Blaustreifen-Säbelzähner

Bluestriped fangblenny
2023 Mnemba, Zanzibar

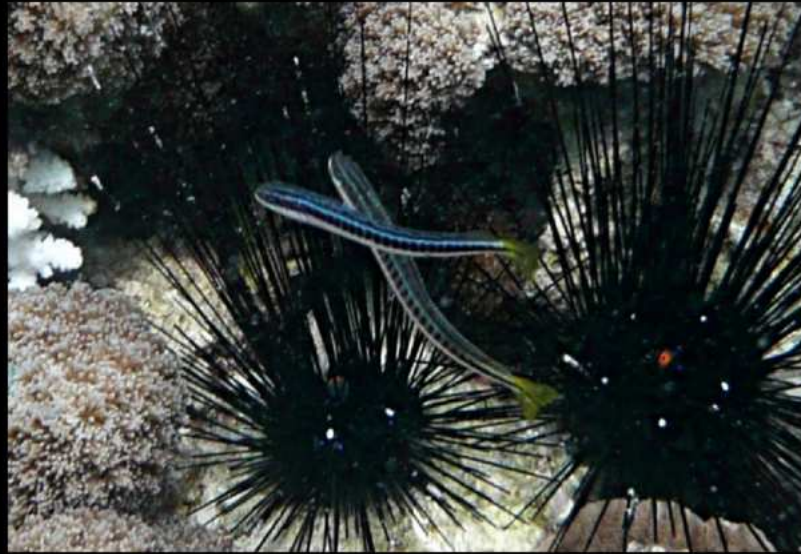


Photo: Martin Leyendecker

2016 Chumbe Island, Zanzibar

Blenniidae

Blennies



Plagiotremus tapeinosoma Scale-eating sabretooth blenny
Piano-Säbelzahn-Schleimfisch or Piano fangblenny
2012 Chumbe Island, Zanzibar

Blenniidae

Blennies



Plagiotremus tapeinosoma Scale-eating sabretooth blenny
Piano-Säbelzahn-Schleimfisch or Piano fangblenny
2012 Chumbe Island, Zanzibar



Photo: Kerstin Erler 2017 Chumbe Island, Zanzibar



Opistognathidae

Jawfishes



Opistognathus nigromarginatus
Photo: Valentina Herbring

Brunnenbauer

Birdled jawfish
2018 Chumbe Island, Zanzibar

Gobiidae

Gobies



Amblyeleotris wheeleri

Wheeler's Partnergrundel

Burgundy partner goby
2013 Chumbe Island, Zanzibar

Gobiidae

Gobies



Bryaninops loki Drahtkorallen-Zwerggrundel Loki whip-goby
Photo: Martin Leyendecker 2017 Chumbe Island, Zanzibar

Gobiidae

Gobies



Bryaninops yongei Peitschenkorallen-Zwerggrundel Whip coral goby
Photo: Kerstin Erler 2017 Chumbe Island, Zanzibar



Photo: Martin Leyendecker 2018 Chumbe Island, Zanzibar

Gobiidae

Gobies



Cryptocentrus lutheri Luthers Partnergrundel Luther's partner goby
2013 Chumbe Island, Zanzibar



Gobiidae

Gobies



Cryptocentrus lutheri Luthers Partnergrundel Luther's partner goby
2013 Chumbe Island, Zanzibar



Cryptocentrus lutheri Luthers Partnergrundel Luther's partner goby
Photo: Dr. M. Leyendecker 2023 Chumbe Island, Zanzibar

Gobiidae

Gobies



Eviota guttata

Grundel

Spotted pygmy goby
or Spotted dwarf goby
2014 Chumbe Island, Zanzibar

Gobiidae

Gobies



Eviota sebreei

Photo: Martin Leyendecker

Gelbflecken-Zwerggrundel

Striped dwarfgoby
2017 Chumbe Island, Zanzibar

Gobiidae

Gobies



Gnatholepis caudimaculata
Photo: Martin Leyendecker

Grundel

Goby
2017 Chumbe Island, Zanzibar

Gobiidae

Gobies



Gnatholepis cauerensis

Augenstreifen-Grundel

Eyebar goby
2013 Chumbe Island, Zanzibar



Ctenogobiops maculosus
Photos: Dr. M. Leyendecker

Partnergrundel

Seychelles shrimpgoby
2023 Chumbe Island, Zanzibar

Gobiidae

Gobies



Istigobius decoratus

Dekor-Grundel

Decorator goby
2013 Chumbe Island, Zanzibar



Gobiidae

Gobies



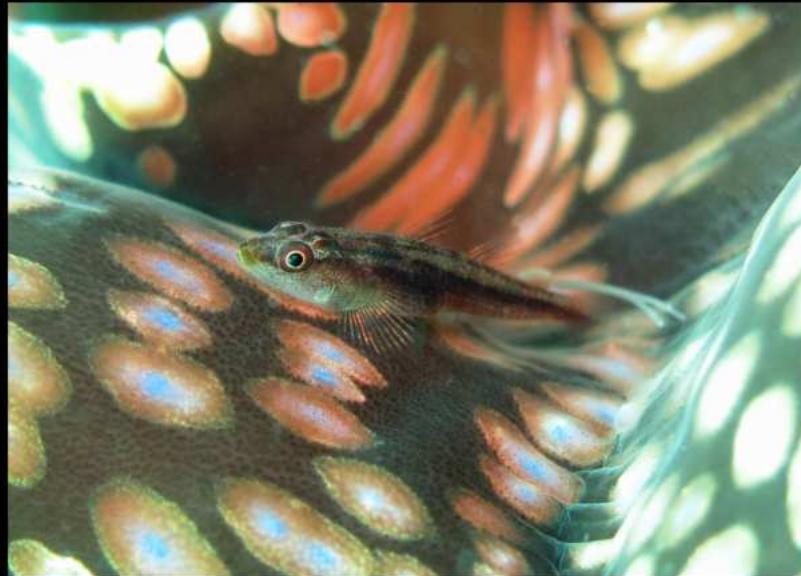
Istigobius spence
Photo: Martin Leyendecker

Grundel

Perl goby
2017 Chumbe Island, Zanzibar

Gobiidae

Gobies



Pleurosicya mossambica
Photo: Kerstin Erler

Grundel

Toothy goby
2019 Chumbe Island, Zanzibar

Gobiidae

Gobies



Valenciennesa helsdingenii
Photos: Dr. Martin Leyendecker

Doppelstreifen-Schläfergrundel

Twostripe goby
2022 Chumbe Island, Zanzibar



Pleurosicya muscarum
Photo: Dr. M. Leyendecker

Grundel

Ghostgoby
2023 Chumbe Island, Zanzibar



Valenciennesa helsdingenii
Photos: Martin Leyendecker

Doppelstreifen-Schläfergrundel

Twostripe goby
2017 Chumbe Island, Zanzibar

Gobiidae

Gobies



Valencienna strigata
Photos: Martin Leyendecker

Goldstirn-Schläfergrundel

Blue-sreak sleeper goby
2015 Chumbe Island, Zanzibar

Microdesmidae

Gobies



Gunnellichthys curiosus
Photos: Dr. Martin Leyendecker

Gelbstreifen Wurmgrundel

Curious wormfish
2022 Chumbe Island, Zanzibar

Microdesmidae

Gobies



Ptereleotris microlepis
Photo: Martin Leyendecker

Blaukopf-Torpedogrundel

Blue dudgeon
2017 Chumbe Island, Zanzibar

Microdesmidae

Dart gobies



Ptereleotris evides

Scherenschwanz-Torpedogrundel

Scissortail dart goby
2015 Chumbe Island, Zanzibar



Ptereleotris evides

Scherenschwanz-Torpedogrundel

Scissortail dart goby
2022 Bawe Island Island, Zanzibar

Acanthuridae

Surgeonfishes



Acanthurus dussumieri Photo: Aaron Critchley
Blauschwanz-Doktorfisch
Pencilled surgeonfish
2016 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker
2017 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Acanthurus gahhm Photo: Dr. H.-W. Leyendecker
Mönchs-Doktorfisch
Black surgeonfish
2019 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Acanthurus leucosternon Weißkehl-Doktorfisch Powder blue surgeonfish
2014 Chumbe Island, Zanzibar



Photo: Leyendecker 2016

Acanthuridae

Surgeonfishes



Acanthurus lineatus Blaustreifen-Doktorfisch Lined surgeonfish
2014 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2016

Acanthuridae

Surgeonfishes



Acanthurus mata
Photo: Dr. H.-W. Leyendecker

Schwarzdom-Doktorfisch

Elongate surgeonfish
2019 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Acanthurus nigricauda

Achselklappendoktor

Epaulette surgeonfish
2008 Chumbe Island, Zanzibar



Photo: Martin Leyendecker 2016



Photo: Dr. H.-W. Leyendecker 2017

Acanthuridae

Surgeonfishes



Acanthurus tennentii

Kreisdom-Doktorfisch

Circled-spine surgeonfish
2013 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Acanthurus thompsoni
Photo: Aaron Critchley

Thomsons Doktor

Black&White surgeon
2016 Chumbe Island, Zanzibar



Acanthurus tennentii
Photo: Dr. M. Leyendecker

Kreisdom-Doktorfisch

Circled-spine surgeonfish
2023 Mnemba, Zanzibar

Acanthuridae

Surgeonfishes



Acanthurus triostegus Sträflings- oder Gitter-Doktorfisch Convict tang
2009 Chumbe Island, Zanzibar



Photo: Markus Meissl 2013

Acanthuridae

Surgeonfishes



Acanthurus xanthopterus Gelbflossen-Doktorfisch Yellowfin surgeonfish
2013 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Ctenochaetus binotatus Blauaugen-Borstenzahndoktor Two-spot bristletooth
Two-spot surgeonfish
2013 Chumbe Island, Zanzibar



juvenile

Acanthuridae

Surgeonfishes



Ctenochaetus striatus Längsstreifen-Borstenzahndoktor Striped bristletooth
or Striated surgeonfish
2013 Chumbe Island, Zanzibar



Acanthuridae

Surgeonfishes



Ctenochaetus truncatus Indian goldring bristle-tooth
Goldring-Borstenzahndoktor
Photo: Markus Meissl 2013 Chumbe Island, Zanzibar



Photo: Dr. Martin Leyendecker juvenile 2022 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Ctenochaetus truncatus Indian goldring bristle-tooth
Goldring-Borstenzahndoktor
Photo: Markus Meissl 2013 Chumbe Island, Zanzibar



Acanthuridae

Surgeonfishes

Acanthuridae

Surgeonfishes



Naso annulatus
Photos: Dr. H.-W. Leyendecker

Nasendoktor

White margin unicorn
2016 Chumbe Island, Zanzibar



Acanthuridae

Surgeonfishes



Naso brevirostris

Schärpen-Nasendoktor

Spotted unicornfish
2013 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Naso brevirostris

Schärpen-Nasendoktor

Photo: Dr. Martin Leyendecker

Spotted unicornfish
2022 Chumbe Island, Zanzibar



at night



at night

Acanthuridae

Surgeonfishes



Naso caeruleacauda Blauschwanz-Nasendoktor Bluetail unicornfish
Photo: Dr. H.-W. Leyendecker 2013 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2019 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Naso elegans Indischer Gelbklingen-Nasendoktor Elegant unicornfish
2012 Chumbe Island, Zanzibar



Acanthuridae

Surgeonfishes

Acanthuridae

Surgeonfishes



Naso unicornis

Kurznasendoktor

Bluespine unicornfish
2015 Chumbe Island, Zanzibar



Acanthuridae

Surgeonfishes



Zebrasoma desjardinii Indik-Segelflossendoktor Sailfin tang
juvenile form 2013 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Zebrasoma desjardinii Indik-Segelflossendoktor Sailfin tang (semi adult)
Photo: Leyendecker 2016 Chumbe Island, Zanzibar



Zebrasoma desjardinii Indik-Segelflossendoktor Sailfin tang
Photo: Dr. Martin Leyendecker semi adult 2022 Chumbe Island, Zanzibar



Photo: Leyendecker 2016 adult form

Acanthuridae

Surgeonfishes



Zebrasoma scopas

Weißdorn-Segelflossendoktor
juvenile forms

Brown tang
2015 Chumbe Island, Zanzibar

Acanthuridae

Surgeonfishes



Zebrasoma scopas

Weißdorn-Segelflossendoktor

Brown tang
2010 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2013



Zanclidae

Zanclus



Zanclus cornutus

Halfterfisch

Moorish Idol
2013 Chumbe Island, Zanzibar

Zanclidae

Zanclus



Zanclus cornutus

Halfterfisch

Moorish Idol
2010 Chumbe Island, Zanzibar



Siganidae

Rabbitfishes



Siganus argenteus

Silber-Kaninchenfisch

Forktail rabbitfish

2015 Chumbe Island, Zanzibar

Siganidae

Rabbitfishes



Siganus stellatus

Tüpfel-Kaninchenfisch

Starry rabbitfish

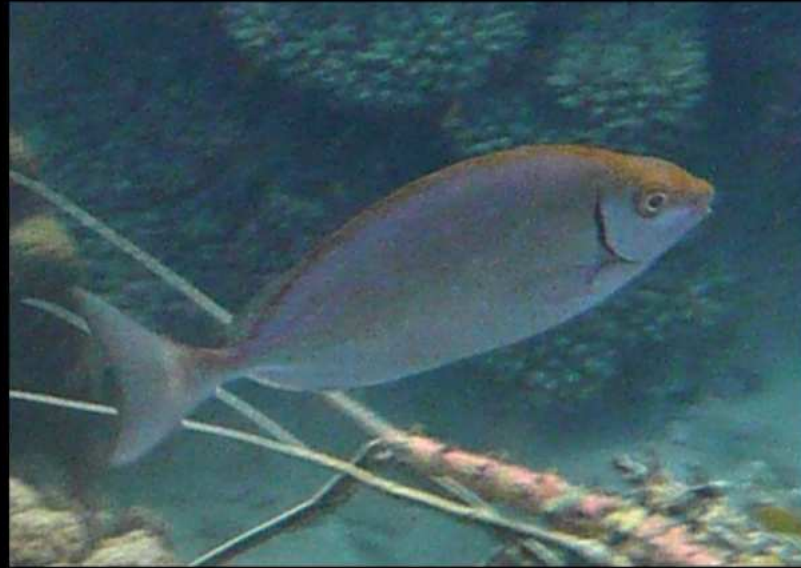
Photo: Dr. H.-W. Leyendecker

2016 Chumbe Island, Zanzibar



Siganidae

Rabbitfishes



Siganus sutor

Kaninchenfisch

Shoemaker spinefoot
African white spotted rabbit
2011 Chumbe Island, Zanzibar

Photo: Dr. H.-W. Leyendecker

Siganidae

Rabbitfishes



Siganus sutor

Kaninchenfisch

Shoemaker spinefoot
African white spotted rabbit
2013 Chumbe Island, Zanzibar

Photo: Martin Leyendecker

at night



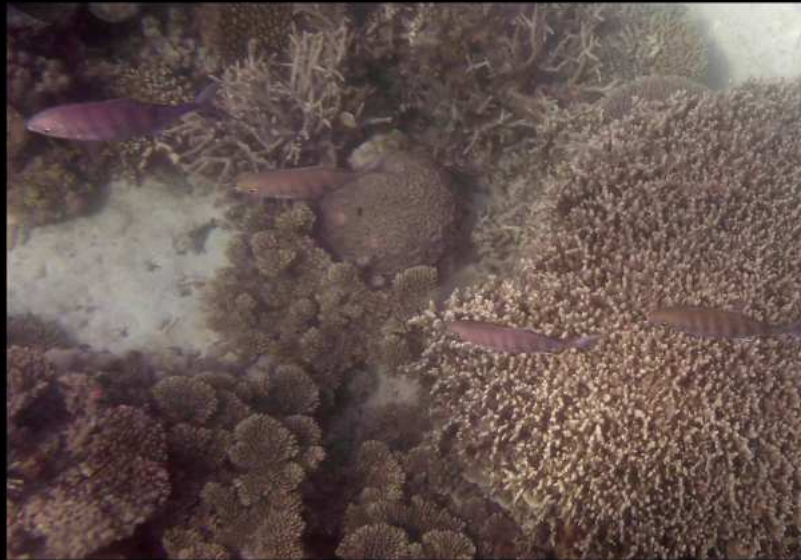
Photo: Dr. Martin Leyendecker

at night

2022 Chumbe Island, Zanzibar

Carangidae

Trevallies



Carangoides ferdau

Querstreifen-Stachelmakrele

Blue trevally

2015 Chumbe Island, Zanzibar

Carangidae

Trevallies



Caranx fulvoguttatus

Gelbfleckenmakrele

Yellow-spotted trevally

Photos: Dr. H.-W. Leyendecker

2019 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker

2019 Chumbe Island, Zanzibar



Carangidae

Trevallies



Caranx melampyugus

Blauflossen-Makrele

Bluefin trevally
2012 Chumbe Island, Zanzibar

Carangidae

Trevallies



Caranx papuensis

Papua-Makrele

Photos: Dr. H.-W. Leyendecker

Brassy trevally
2020 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker

2022 Chumbe Island, Zanzibar



Carangidae

Trevallies



Caranx sexfasciatus

Großaugen-Stachelmakrele

Photo: Dr. H.-W. Leyendecker

Bigeye trevally
Elongate trevally

2019 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker

2019 Chumbe Island, Zanzibar

Carangidae

Trevallies



Elagatis bipinnulata

Regenbogenmakrele

Photo: Dr. H.-W. Leyendecker

Rainbow runner

2022 Chumbe Island, Zanzibar



Elagatis bipinnulata

Regenbogenmakrele

Photo: Dr. Valentina Herbring

Rainbow runner

2023 Chumbe Island, Zanzibar

Carangidae

Trevallies



Gnathanodon speciosus
Photo: Dr. Valentina Herbring

Königsmakrele
adult

Golden trevally
2022 Chumbe Island, Zanzibar

Carangidae

Trevallies



Gnathanodon speciosus
Photo: Ulli Kloiber

Königsmakrele
juveniles

Golden trevally
2014 Chumbe Island, Zanzibar



92 Photo: Dr. Valentina Herbring

adult

2022 Chumbe Island, Zanzibar

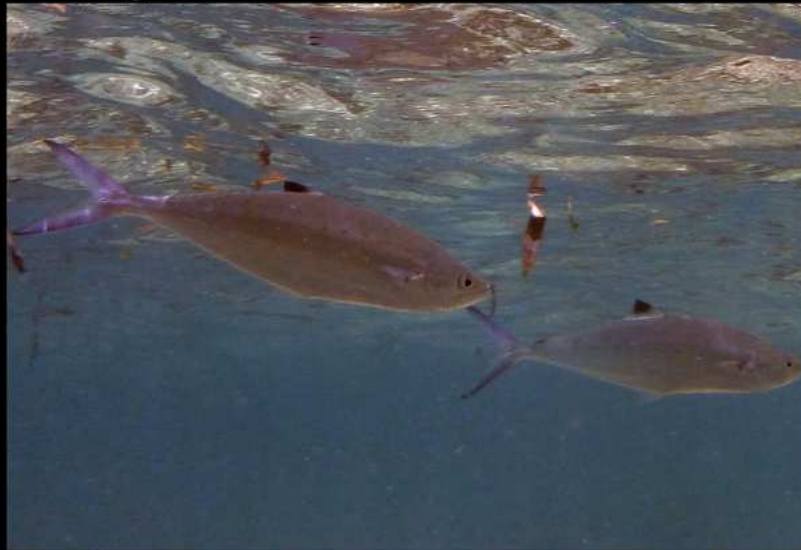


Photo: Ulli Kloiber

juveniles

2014 Chumbe Island, Zanzibar

Carangidae



Scomberoides lysan

Stachelmakrele

Leatherback trevally
2013 Chumbe Island, Zanzibar

Trevallies



Photos: Dr. H.-W. Leyendecker

2019 Chumbe Island, Zanzibar

Echeneidae



Echeneis naucrates

Gestreifter Schiffshalter

Striped remora
or Shark sucker

Photos: Dr. H.-W. Leyendecker

2019 Chumbe Island, Zanzibar

Suckerfishes



Balistidae

Triggerfishes



Balistapus undulatus Orangestreifen Drückerfisch Orange striped triggerfish
Photo: Leyendecker 2016 Chumbe Island, Zanzibar

Balistidae

Triggerfishes



Balistapus undulatus Orangestreifen Drückerfisch Orange striped triggerfish
2007 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2016



Photo: Leyendecker 2016

Balistidae

Triggerfishes



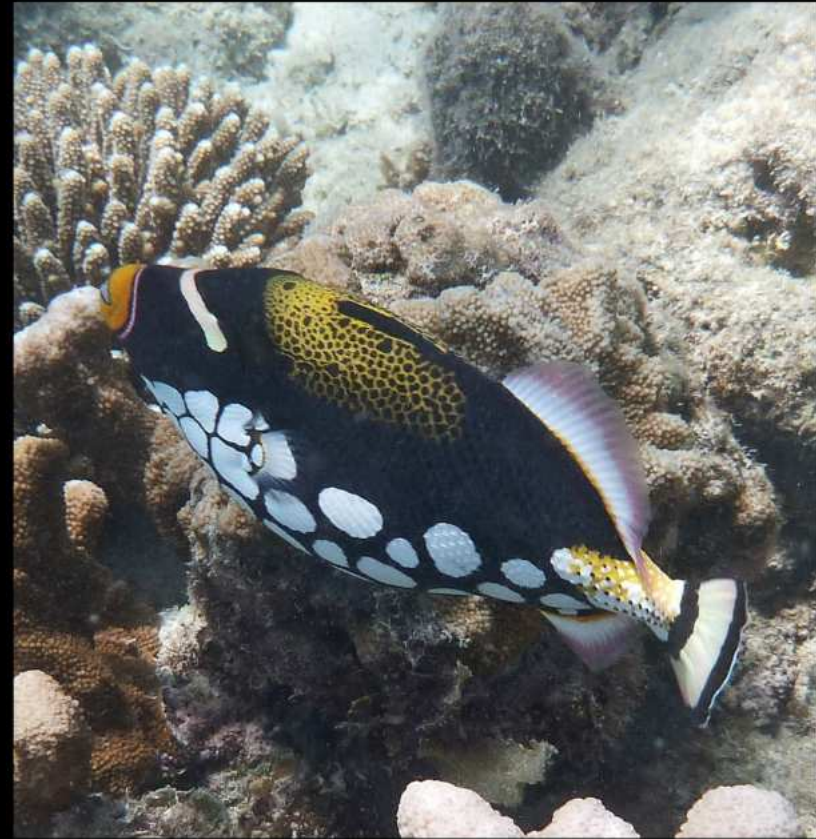
Balistoides conspicillum
Photo: Ulli Kloiber

Leoparden-Drückerfisch

Clown triggerfish
2015 Chumbe Island, Zanzibar

Balistidae

Triggerfishes



Balistoides conspicillum
Photo: Ulli Kloiber

Leoparden-Drückerfisch

Clown triggerfish
2015 Chumbe Island, Zanzibar

Balistidae

Triggerfishes



Balistoides viridescens Titan- oder Riesen-Drückertisch Titan triggerfish
or Moustache triggerfish
2007 Chumbe Island, Zanzibar



Balistidae

Triggerfishes



Balistoides viridescens Titan- oder Riesen-Drückertisch Titan triggerfish
or Moustache triggerfish
2016 Chumbe Island, Zanzibar
Photo: Martin Leyendecker

Balistidae

Triggerfishes



Melichthys indicus Indischer Drückerfisch Indian triggerfish
2013 Chumbe Island, Zanzibar

Balistidae

Triggerfishes



Melichthys niger Schwarzer Drückerfisch Black triggerfish
2015 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2016

Balistidae

Triggerfishes



Sufflamen chrysopteron
Photo: Ulrike Kloiber

Weißband-Drückerfisch
Halbmond-Drückerfisch

Halfmoon triggerfish
2011 Chumbe Island, Zanzibar



juvenile form

Balistidae

Triggerfishes



Sufflamen chrysopteron

Weißband-Drückerfisch
male

Halfmoon triggerfish
2012 Chumbe Island, Zanzibar





Photo: Dr. Valentina Herbring

2022 Chumbe Island, Zanzibar

Dear Expert,

this fish species shown above is still not identified.

Please let us know if you get an idea what kind of species it is, and inform the Island management.

Balistidae

Triggerfishes



Pseudoballistes fuscus
 Photo: Ulli Kloiber

Blaustreifen-Drückerfisch

Yellow-spotted triggerfish
 2022 Chumbe Island, Zanzibar



Pseudoballistes fuscus
 Photo: Dr. Valentina Herbring

Blaustreifen-Drückerfisch

Yellow-spotted triggerfish
 2023 Chumbe Island, Zanzibar

Monacanthidae

Filefishes



Aluterus scriptus Schrift-Feilenfisch Scrawled filefish, Scribbled filefish
2015 Chumbe Island, Zanzibar

Monacanthidae

Filefishes



Amanses scopas Bürsten-Feilenfisch Broom filefish
Photo: Dr. H.-W. Leyendecker 2014 Chumbe Island, Zanzibar



at night



Photo: Dr. H.-W. Leyendecker

2019 Chumbe Island, Zanzibar

Monacanthidae

Filefishes



Cantherhines pardalis Netz-Feilenfisch Leopard or Honeycomb or Wire-net filefish
2012 Chumbe Island, Zanzibar



Monacanthidae

Filefishes



Cantherhines pardalis Netz-Feilenfisch Leopard or Honeycomb or Wire-net filefish
2010 Chumbe Island, Zanzibar



Monacanthidae

Filefishes



Oxymonacanthus longirostris Palettenstachler Orangespotted filefish
or Longnose filefish
Photo: Markus Meissl 2013 Chumbe Island, Zanzibar



Monacanthidae

Filefishes



Paraluteres prionurus Schwarzsattel-Feilenfisch Blacksaddle filefish
or False puffer
2015 Chumbe Island, Zanzibar



Photo: Kerstin Erler 2017 Chumbe Island, Zanzibar

Monacanthidae

Filefishes



Paramonacanthus pusillus
Photos: Dr. Valentina Herbring

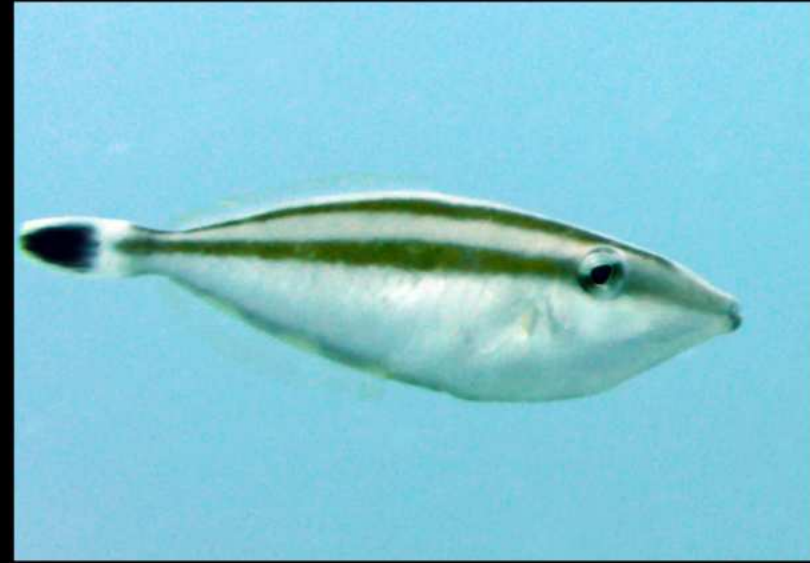
Feilenfisch

Blackstripe filefish
2022 Chumbe Island, Zanzibar



Monacanthidae

Filefishes



Pseudalutarius nasicornis
Photo: Dr. Valentina Herbring

Nashorn-Feilenfisch

Rhinoceros filefish
2022 Chumbe Island, Zanzibar

Monacanthidae

Filefishes



Stephanolepis aurata Feilenfisch Porky
Photos: Martin Leyendecker 2018 Chumbe Island, Zanzibar

Monacanthidae

Filefishes



Stephanolepis diaspros Feilenfisch adult Reticulated leatherjacket
Photo: Dr. Valentina Herbring 2022 Chumbe Island, Zanzibar



Stephanolepis hispida Brauner Feilenfisch Planehead filefish
Photo: Kerstin Erler 2019 Chumbe Island, Zanzibar



Stephanolepis diaspros Feilenfisch juvenile
Photos: Martin Leyendecker



Reticulated leatherjacket
2018 Chumbe Island, Zanzibar

Ostraciidae

Boxfishes



Lactoria fornasini Photo: Dr. M. Leyendecker Domrücken-Kofferfisch Thornback cowfish 2023 Chumbe Island, Zanzibar



Lactoria fornasini Photo: Dr. M. Leyendecker Domrücken-Kofferfisch Thornback cowfish 2023 Chumbe Island, Zanzibar

Ostraciidae

Boxfishes



Lactoria fornasini Photos: Dr. M. Leyendecker Domrücken-Kofferfisch Thornback cowfish 2023 Mnemba, Zanzibar



Lactoria fornasini Photos: Dr. Valentina Herbring Domrücken-Kofferfisch Thornback cowfish 2023 Mnemba, Zanzibar

Ostraciidae

Boxfishes



Ostracion cubicum Gelbbrauner Kofferfisch Cube boxfish
Photo: Oskar Hendriksson 2012 Chumbe Island, Zanzibar

Ostraciidae

Boxfishes



Ostracion meleagris Weißpunkt-Kofferfisch female Whitespotted boxfish
2012 Chumbe Island, Zanzibar



Ostracion cubicum Gelbbrauner Kofferfisch juvenile Cube boxfish
Photo: Dr. M. Leyendecker 2023 Chumbe Island, Zanzibar



Ostracion meleagris Weißpunkt-Kofferfisch male Whitespotted boxfish
Photo: Dr. Martin Leyendecker 2022 Mnemba Island, Zanzibar

Diodontidae

Porcupinefishes



Diodon hystrix
Photo: Martin Leyendecker

Gewöhnlicher Igelfisch

Common porcupinefish
2013 Chumbe Island, Zanzibar

Diodontidae

Porcupinefishes



Diodon liturosus

Masken-Igelfisch

Masked porcupinefish
2010 Chumbe Island, Zanzibar



Diodontidae

Porcupinefishes



Lophodiodon calori
Photo: Martin Leyendecker

Mimikry-Igelfisch

Four-bar porcupinefish
2018 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron hispidus

Weißflecken-Kugelfisch

White-spotted puffer
2013 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron mappa

Mappa-Kugelfisch
adult

Mappa pufferfish
2009 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron mappa
Photo: Kerstin Erler

Mappa-Kugelfisch
juvenile

Mappa pufferfish
2019 Chumbe Island, Zanzibar



Photo: Kerstin Erler

semiadult

2019 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron stellatus
Photo: Dr. H.-W. Leyendecker

Riesenkugelfisch

Stellate puffer
2022 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron immaculatus
Photo: Martin Leyendecker

Kugelfisch

Immaculate puffer
2018 Chumbe Island, Zanzibar



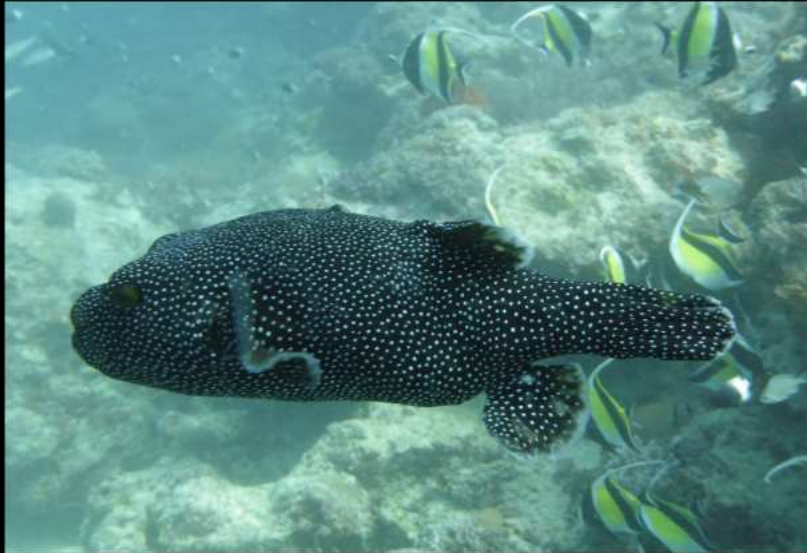
Arothron immaculatus
Photo: Dr. M. Leyendecker

Kugelfisch

Immaculate puffer
2023 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron meleagris
Photo: Dr. Valentina Herbring

Sternen-Kugelfisch

Guineafowl puffer
2022 Mnemba Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron meleagris
Photo: Leyendecker

Sternen-Kugelfisch

Guineafowl puffer
2016 Chumbe Island, Zanzibar



Arothron meleagris
Photo: Dr. Valentina Herbring

Sternen-Kugelfisch
colour variant

Guineafowl puffer
2022 Mnemba Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron nigropunctatus Schwarzfleck-Kugelfisch Blackspotted pufferfish
2012 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Arothron nigropunctatus Schwarzfleck-Kugelfisch Blackspotted pufferfish
2012 Chumbe Island, Zanzibar



Photo: Leyendecker 2015

Tetraodontidae

Pufferfishes



Canthigaster bennetti Bennets Krugfisch Bennett's sharpnose puffer
male at night 2015 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Canthigaster bennetti Bennets Krugfisch Bennett's sharpnose puffer
male and female 2015 Chumbe Island, Zanzibar



Photo: Dr. Valentina Herbring female at night 2022 Chumbe Island, Zanzibar



female

Tetraodontidae

Pufferfishes



Canthigaster coronata
Photo: Martin Leyendecker

Kugelfisch

Crown toby
2018 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Canthigaster smithae
Photo: Martin Leyendecker

Zweifarbiger Toby

Bicolored toby
2017 Chumbe Island, Zanzibar



Canthigaster smithae
Photo: Dr. Martin Leyendecker

Zweifarbiger Toby

Bicolored toby
2022 Mnemba Island, Zanzibar

Tetraodontidae

Pufferfishes



Canthigaster solandri Augenfleck-Krugfisch Solanders toby
2016 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Canthigaster solandri Augenfleck-Krugfisch Solanders toby
2013 Chumbe Island, Zanzibar



Tetraodontidae

Pufferfishes



Canthigaster valentini

Sattel-Krugfisch
at night

Valentin's toby
2015 Chumbe Island, Zanzibar

Tetraodontidae

Pufferfishes



Canthigaster valentini

Sattel-Krugfisch

Valentin's toby
2014 Chumbe Island, Zanzibar



Cheloniidae

Seaturtles



Eretmochelys imbricata Echte Karettschildkröte Hawksbill turtle
2015 Chumbe Island, Zanzibar

Cheloniidae

Seaturtles



Eretmochelys imbricata Echte Karettschildkröte Hawksbill turtle
Photo: Leyendecker 2016 Chumbe Island, Zanzibar



Photo: Dr. H.-W. Leyendecker 2016

Cheloniidae

Seaturtles



Chelonia mydas

Suppenschildkröte

Green turtle
2015 Chumbe Island, Zanzibar



Quickfinder

Family name

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Acknowledgements

I would like to thank all the people who are working with Chumbe Island Coral Park Ltd. They are all doing a great job protecting the unique coral reef on the west coast of Chumbe Island. Their enthusiasm and commitment over many years has inspired me to create this photo guide which presents species that are found in the Chumbe Reef Sanctuary.

The majority of the photos were taken by my son Martin Leyendecker. During our annual visits over the last 21 years to Chumbe Island, Martin has taken every opportunity to snorkel on the reef and captured photos of the diverse reef inhabitants. During these many reef visits we were safely guided by the experienced and knowledgeable rangers of Chumbe Island. It was the enthusiasm and expertise of Head Ranger Omari Nyange, Environmental Educator Khamis Khalfan, Guiding Rangers Juma Salum, Ali Chaga and Ali Harun and the Marine Biologist Ulli Kloiber assisted by the Ramadan rangers 2016 Aaron Critchley and Jorge Santamaria Perez, as well as the marine biologist Sander den Haring and Dr. Renato Morais that enabled me to identify the species photographed for this guide.

Chumbe's scientific advisor, Ulli Kloiber helped with identification and wrote the introduction on how to use this photo guide for the readers. I would like to thank her for her untiring support.

The photos which were not taken by Martin are credited to the photographer. This edition 2024 was supported by the following photographers: Markus Meissl, Oskar Hendriksson, Elisa Alonso, Frida Landshammar, Olivia McGrath, Elisabeth Tyler, Kim Nesbitt, Aaron Critchley, Jorge Santamaria Perez, Monica Hemming Rorvik, Kerstin Erler, Helen Peeks, Valentina Herbring and Ulli Kloiber. The few images that have been taken outside of the Chumbe reef were selected because of their superior quality.

I would also like to thank all of the fellow guests to Chumbe Island, who through their visit support not only the protection and conservation of the island and the diverse coral reef but also Chumbe's unique Environmental Education (EE) programme. The EE programme brings local community members and Zanzibari students of all ages to Chumbe Island and enables them to snorkel over the healthy coral reef, discover the spectacular wildlife underwater and learn more about environmental sustainability and ecotourism.

Last but not least I would like to thank Ms. Sibylle Riedmiller, who is the Founder and Director of Chumbe Island Coral Park (CHICOP), the first privately established and managed Marine Protected Area (MPA) in the world. She implemented the idea for private conservation in the early 1990's and today Chumbe Island is a world famous showcase! Without her unrelenting devotion to the Chumbe project this book would likely not have been realized.

October 2024
Obertshausen, Germany
Dr. Hans-Wilhelm Leyendecker, Editor

