

Family MYXINIDAE, Hagfishes



© RW Leslie

Eptatretus hexatrema, sixgill hagfish, 51 cm TL, gill apertures inset (South Africa).



© NM Mincarone

Eptatretus octatrema, eightgill hagfish, 28 cm TL, syntype (South Africa).



O Alhheim © IMR

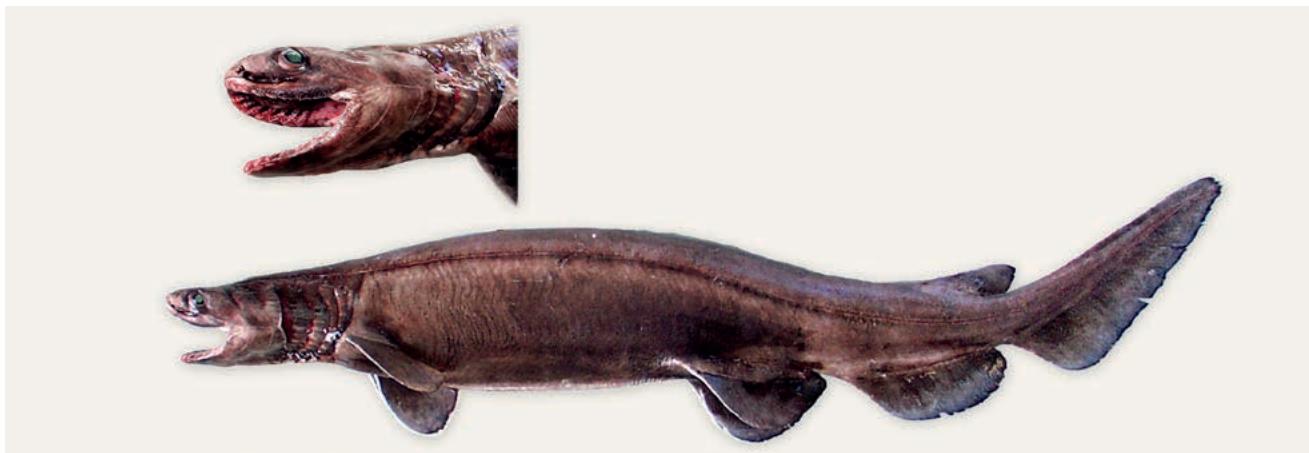
Eptatretus profundus, fivegill hagfish, 68 cm TL (South Africa).



O Alhheim © IMR

Myxine capensis, Cape hagfish, 40 cm TL (Mozambique).

Family CHLAMYDOSELACHIDAE, Frilled sharks



Chlamydoselachus africana, southern African frilled shark, 125 cm TL (Namibia).

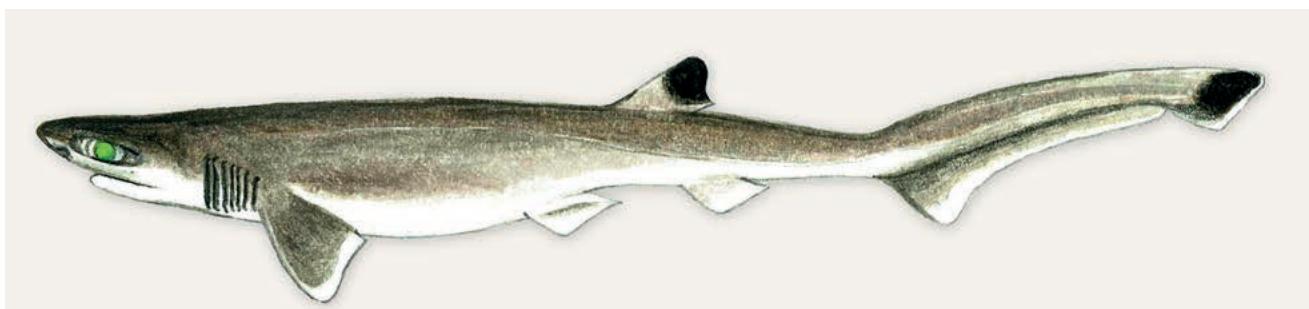
O Alvesheim © IMR



Chlamydoselachus anguineus, frilled shark, 137 cm TL, male (Portugal, NE Atlantic).

© R Coelho, CCMAR

Family HEXANCHIDAE, Cow sharks



Heptranchias perlo, sharpnose sevengill shark, 70 cm TL.

AD Connell © NRF-SAFAB



Heptranchias perlo, sharpnose sevengill shark, juvenile (South Africa).

Family HEXANCHIDAE, Cow sharks



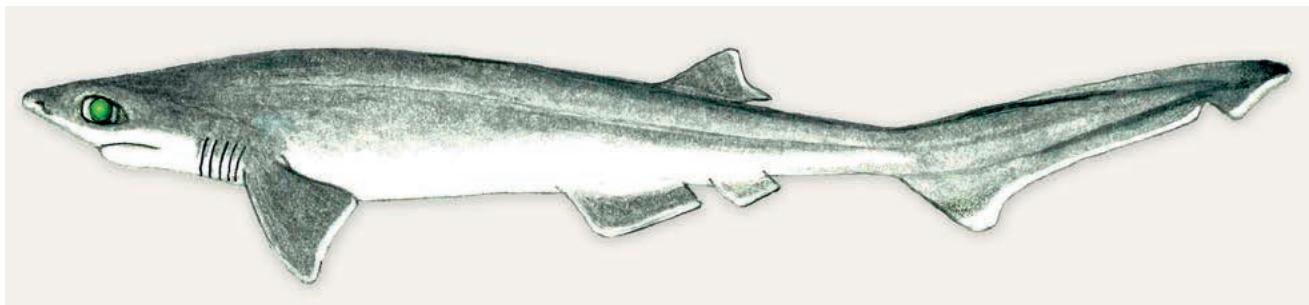
Hexanchus griseus, bluntnose sixgill shark, 89 cm TL (SW India).

KV Akhilesh © CMFR

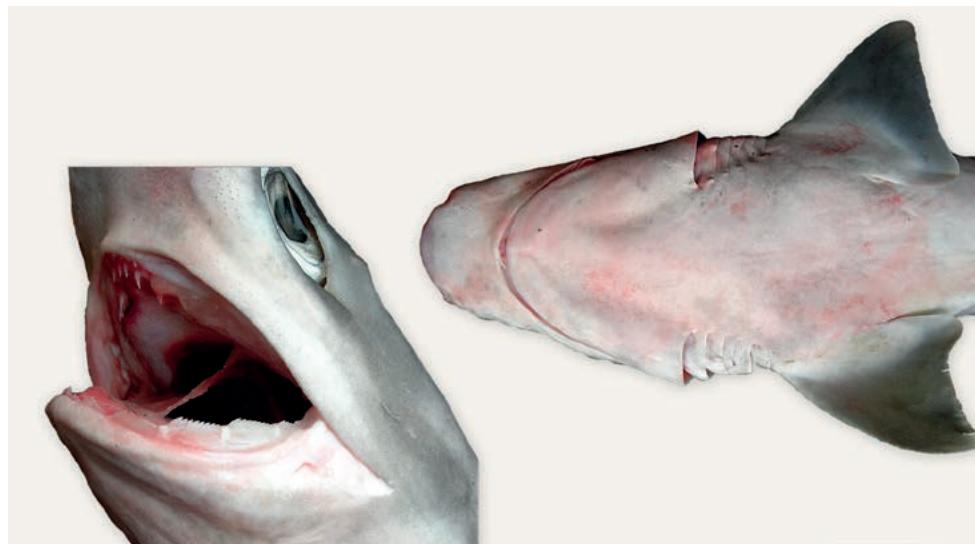


Hexanchus griseus, bluntnose sixgill shark, 97 cm TL (Japan).

Source: CFSA



Hexanchus nakamurai, bigeyed sixgill shark, 100 cm TL (Nazareth Bank).



AD Connell © NRE-SAIAB

Hexanchus nakamurai, bigeyed sixgill shark, 89 cm TL (South Africa).

Family **HEXANCHIDAE**, Cow sharks

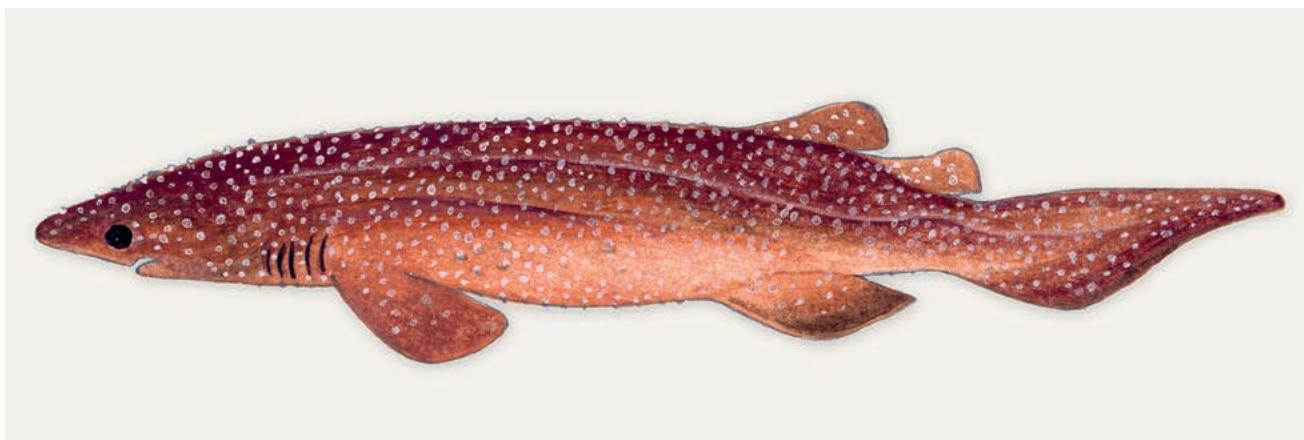
Notorynchus cepedianus, sevengill shark, 180 cm TL, subadult female (Japan).

Source: CFS

Family **ECHINORHINIDAE**, Bramble sharks

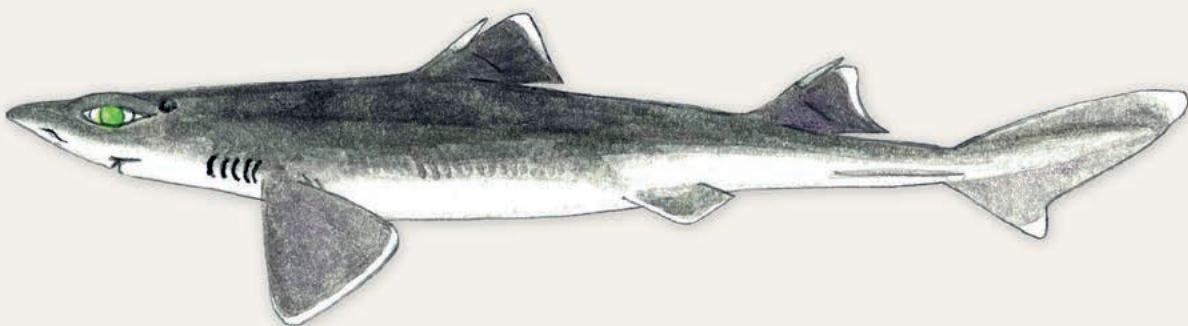
KV Akhilash © CMFRI

Echinorhinus brucus, bramble shark, 39 cm TL (SW India).

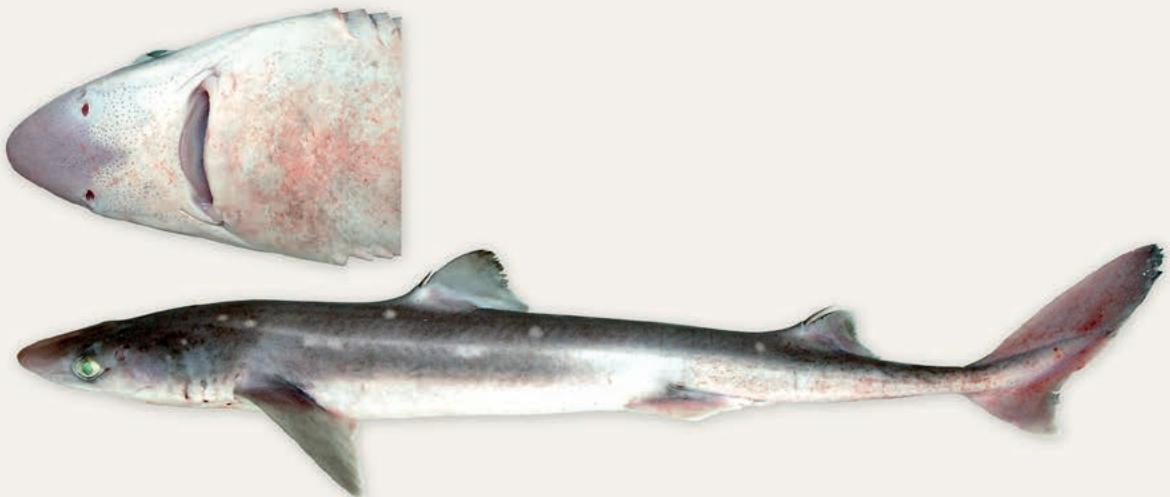


Echinorhinus brucus, bramble shark, 250 cm TL, female (South Africa).

Family SQUALIDAE, Dogfishes

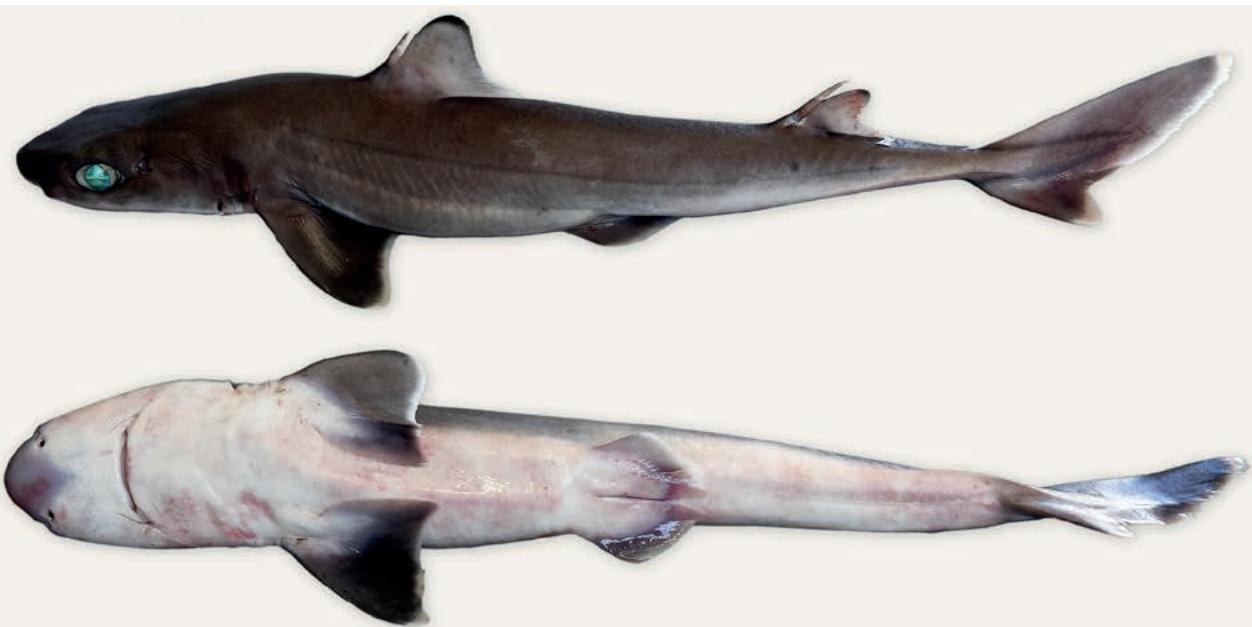


Cirrhigaleus asper, roughskin spurdog, 38 cm TL, female (Comoros).



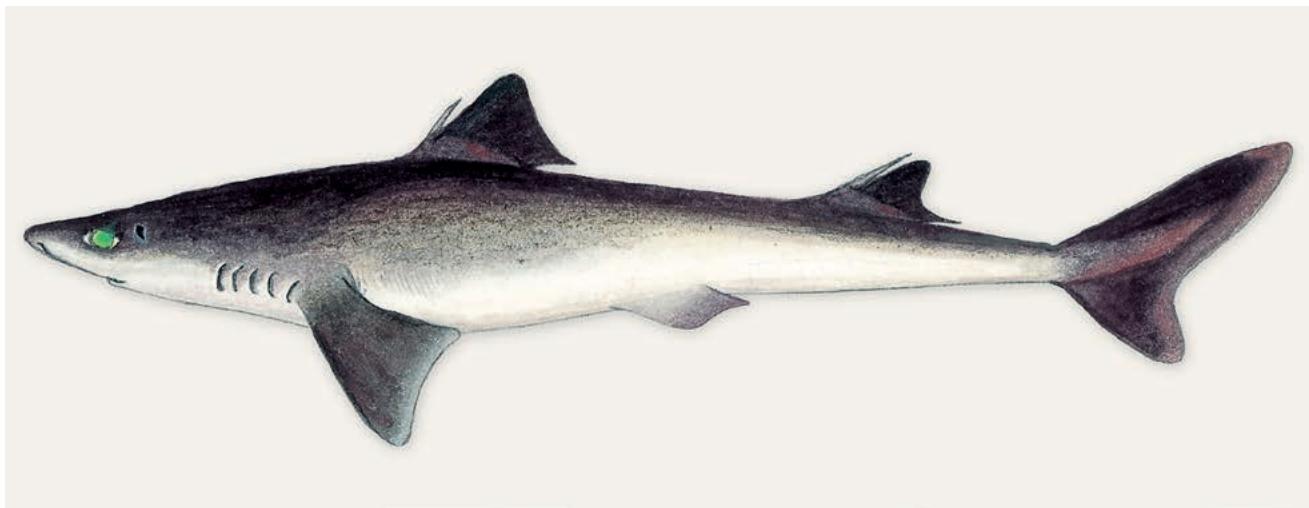
Squalus acanthias, spotted spiny dogfish, 77 cm TL (South Africa).

O Alvheim © IMR



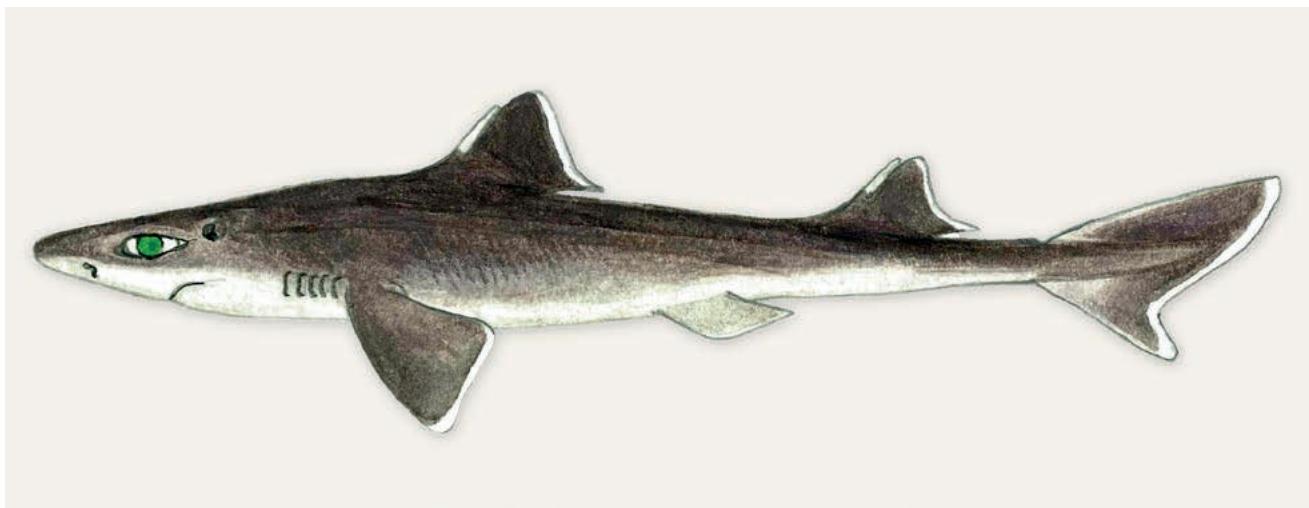
Squalus acutipinnis, shortnose spurdog, 48 cm TL (South Africa).

O Alvheim © IMR

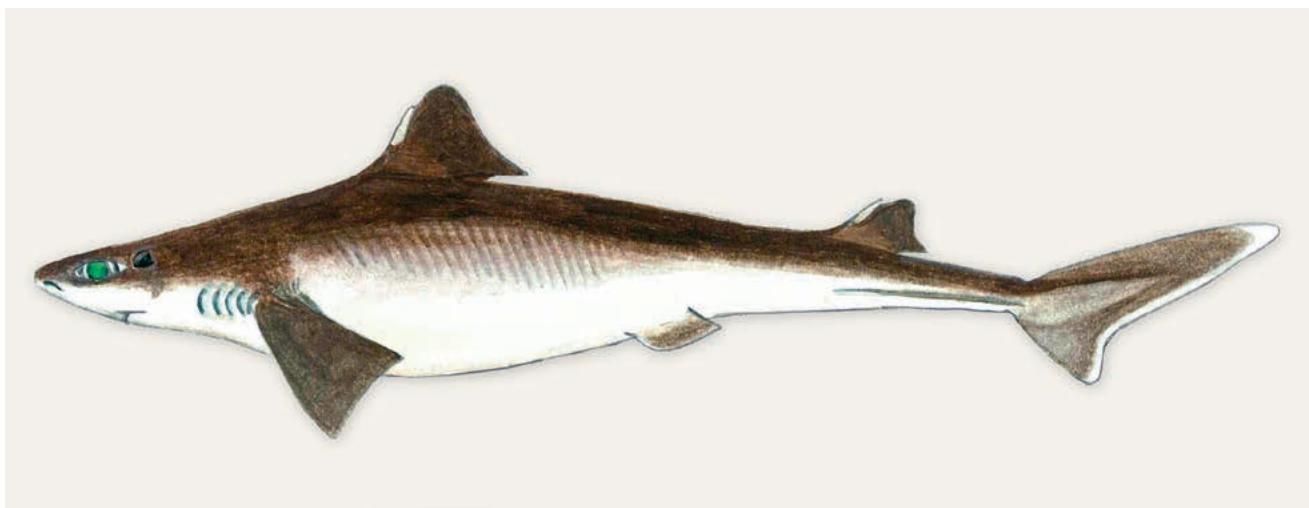
Family **SQUALIDAE**, Dogfishes

Source: CFSA

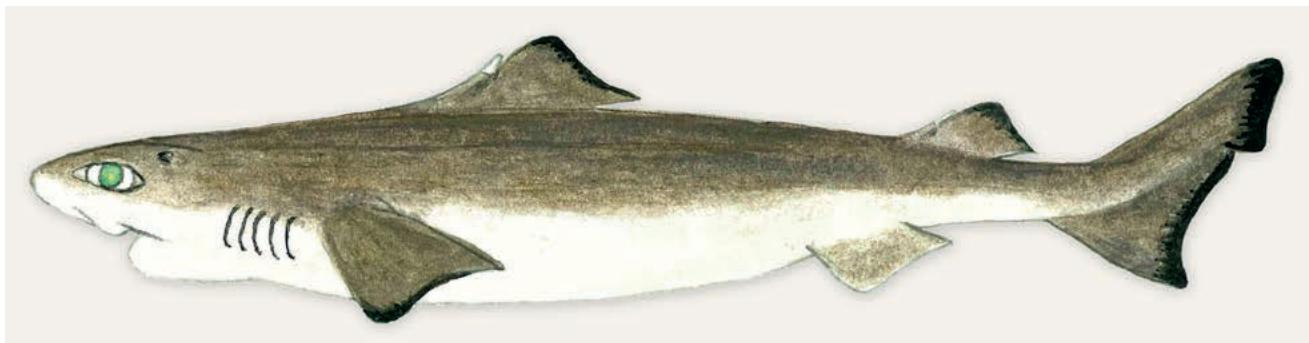
Squalus acutipinnis, shortnose spurdog, 56 cm TL, mature female (South Africa).



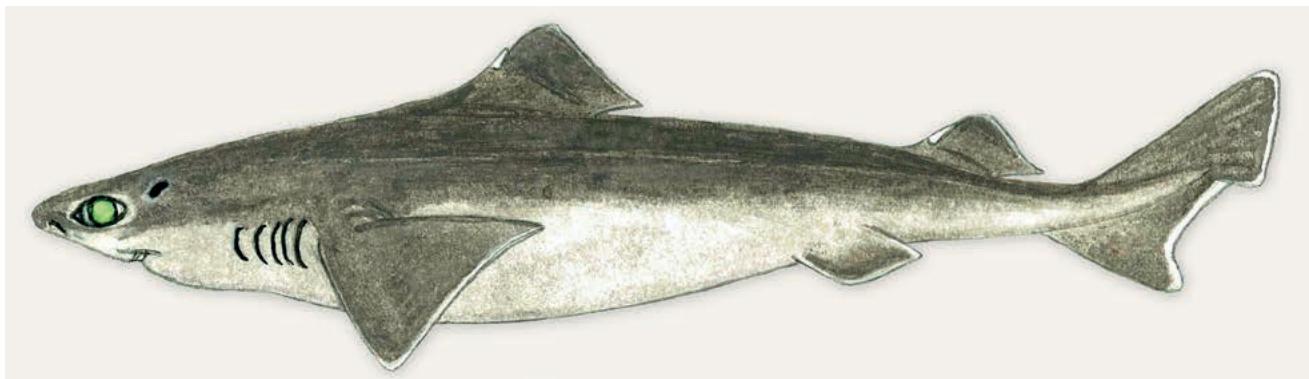
Squalus blainville, longnose spurdog, 96 cm TL (South Africa).



Squalus mitsukurii, shortspine spurdog, 92 cm TL (Mozambique).

Family **CENTROPHORIDAE**, Gulper sharks

Centrophorus atromarginatus, blackfin gulper shark, ~70 cm TL (Namibia).

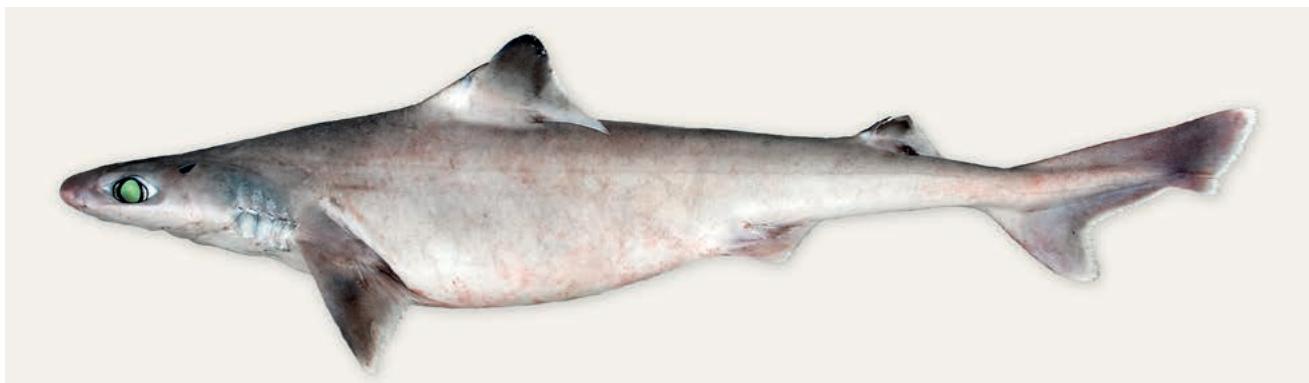


Centrophorus granulosus, gulper shark, 90 cm TL.



Centrophorus granulosus, gulper shark, 110 cm TL (Mozambique).

O Alvheim © IMR



Centrophorus moluccensis, smallfin gulper shark, 74 cm TL (Mozambique).

O Alvheim © IMR

Family **CENTROPHORIDAE**, Gulper sharks



Deania calceus, birdbeak dogfish, 40 cm TL (Namibia).

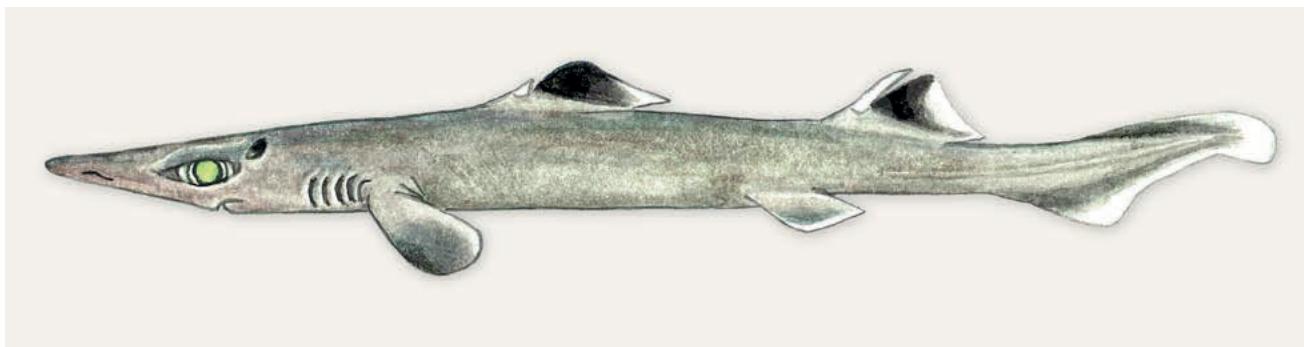


Deania profundorum, arrow-head dogfish, 25 cm TL (SW India).

KV Akhilash © CMFRI



Deania profundorum, arrow-head dogfish, 47 cm TL (Madagascar).



Deania quadrispinosa, longsnout dogfish, 39 cm TL (Mozambique).

Family ETMOPTERIDAE, Lanternsharks



© A Dolgov, PINRO

Centroscyllium fabricii, black dogfish, 60 cm TL (Iceland).



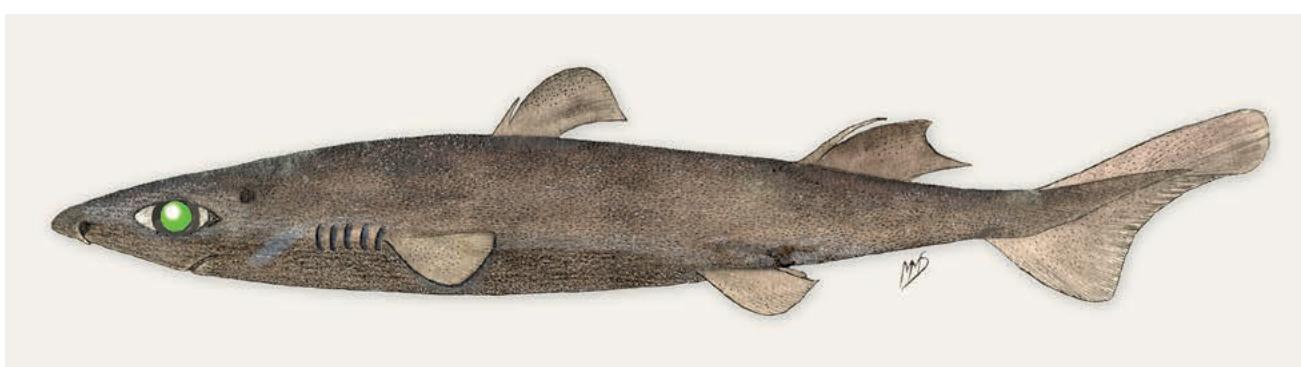
© ST Fennessy, ORV SAAMBR

Etmopterus compagnoi, brown lanternshark, 32 cm TL (South Africa).



AD Connell © NRF-SAAMBR

Etmopterus compagnoi, brown lanternshark (South Africa).



Source: SFSU

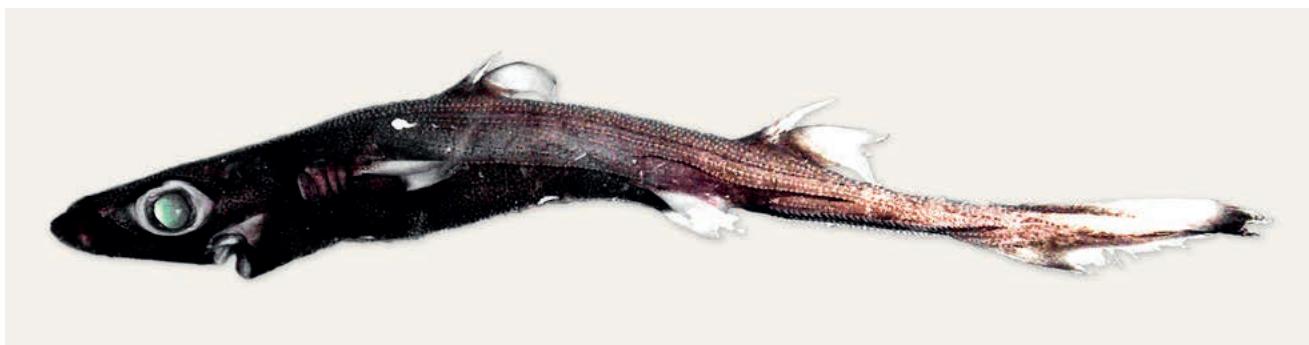
Etmopterus granulosus, southern lanternshark, 41 cm TL (WIO).

Family ETMOPTERIDAE, Lanternsharks



Etmopterus pusillus, smooth lanternshark, 27 cm, 30 cm and 44 cm TL (Sapmer Seamount).

O Almheim © IMR/ASCLME



Etmopterus sculptus, sculpted lanternshark, 14 cm TL (Mozambique). #

PC Heemstra © NRF-SAJAB



Etmopterus sculptus, sculpted lanternshark, 37 cm TL (Mozambique). #

PC Heemstra © NRF-SAJAB

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Family ETMOPTERIDAE, Lanternsharks



Etomopterus sentosus, thorny lanternshark, 20 cm TL (N Mozambique).

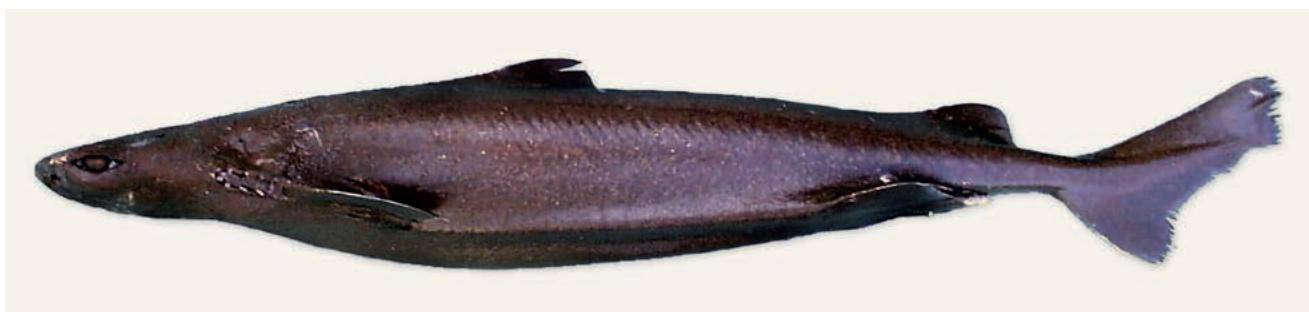
PC Heemstra © NRF-SAFAB



Etomopterus sentosus, thorny lanternshark, 26 cm TL; rows of enlarged denticles above pectoral fin (inset) (Mozambique).

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Family SOMNIOSIDAE, Sleeper sharks



Centroscymnus coelolepis, Portuguese dogfish, 86 cm TL (Namibia).

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Centroscymnus owstonii, roughskin dogfish, 35 cm TL, juvenile male, preserved specimen (SW Madagascar).

Family **SOMNIOSIDAE**, Sleeper sharks

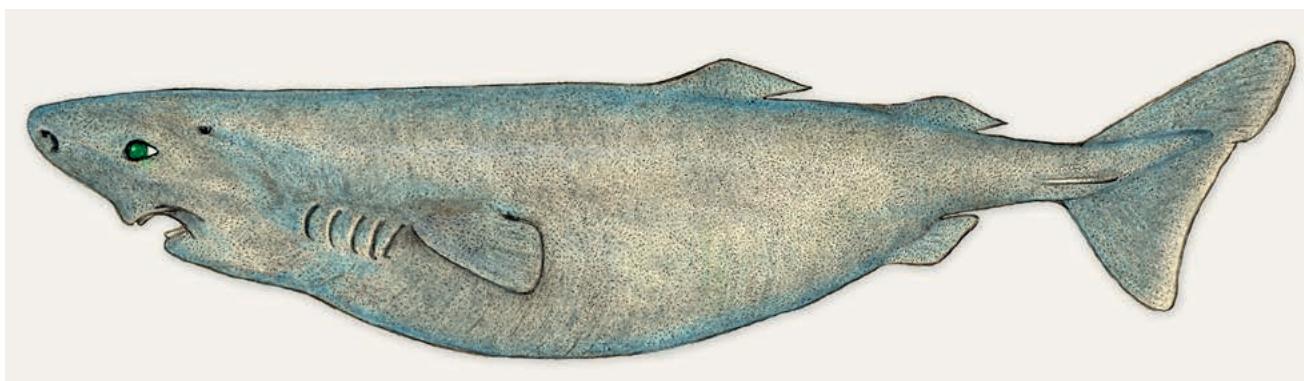
KV Akhilesh, © CMFRI

Centroselachus crepidater, longnose velvet dogfish, 66 cm TL (SW India).



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Scymnodon macracanthus, largespine velvet dogfish, 130 cm TL, female (New Zealand).



Somniosus antarcticus, southern sleeper shark, ~2 m TL (composite; Southern Ocean).



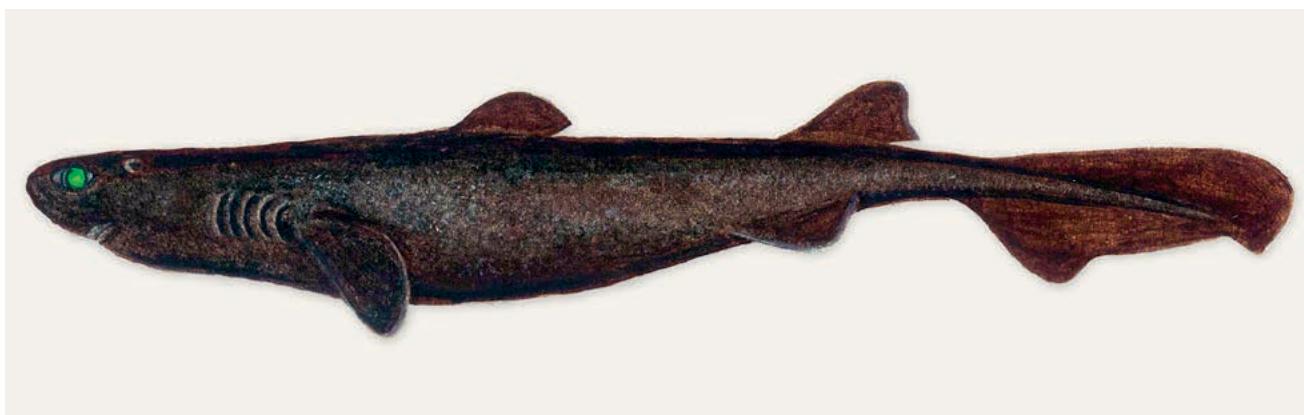
© RW Leslie

Zameus squamulosus, velvet dogfish, ~32 cm TL (South Africa).

Family **OXYNOTIDAE**, Roughsharks

Oxynotus centrina, angular roughshark, 38 cm TL (Ghana).

© Alvhheim © IMR

Family **DALATIIDAE**, Kitefin sharks

Dalatias licha, kitefin shark, 42 cm TL (Mozambique).

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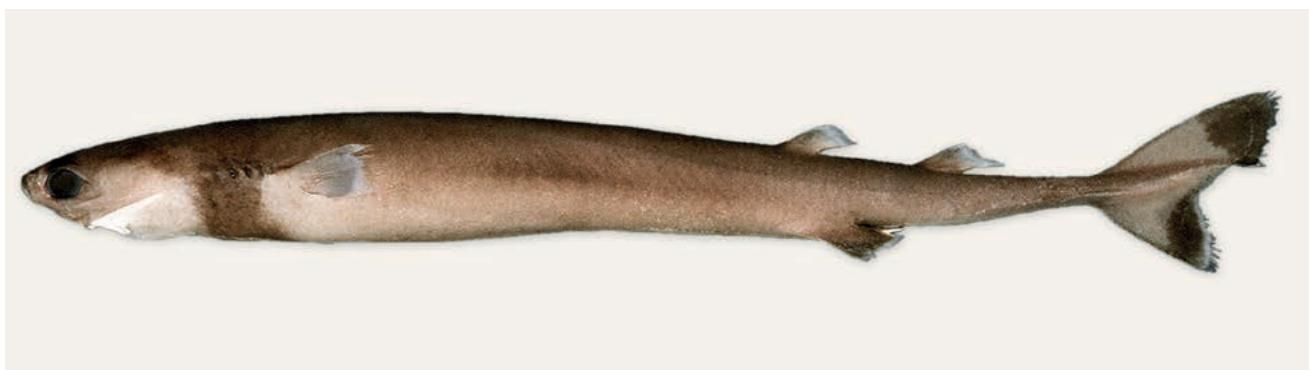
Euprotomicrus bispinatus, pygmy shark, 24 cm TL, female, preserved specimen (Atlantic Ocean).

Family DALATIIDAE, Kitefin sharks



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Heteroscyphus marleyi, longnose pygmy shark, 37 cm TL, adult male, preserved specimen (Atlantic Ocean).



© JE Randall, Bishop Museum

Isistius brasiliensis, cookiecutter shark, 33 cm TL (Hawaii).



© M Harris

Isistius brasiliensis, cookiecutter shark, ~48 cm TL, female (Mexico).



© S Weigmann, ZMH

Squaliolus laticaudus, spined pygmy shark, 24 cm TL, female, preserved specimen (Atlantic Ocean).

Family PRISTIOPHORIDAE, Sawsharks



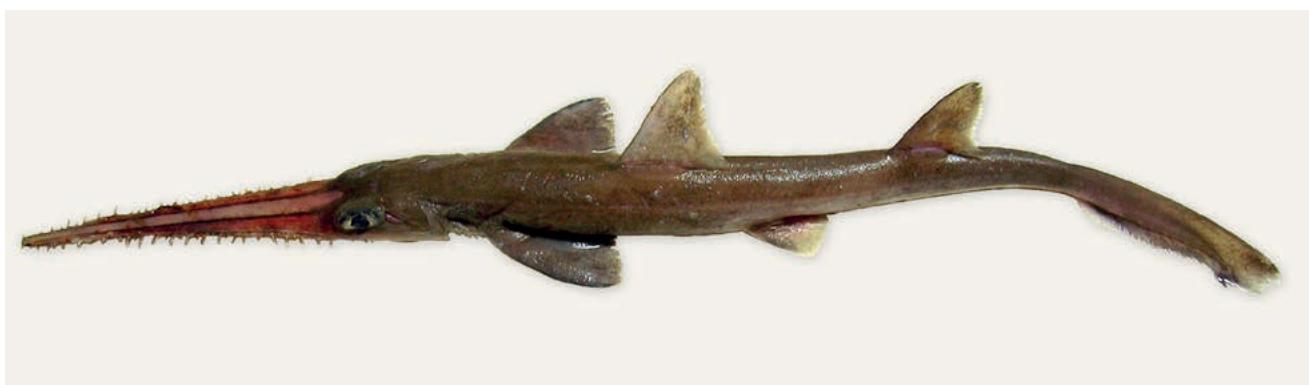
© S Weigmann, ZMH

Pliotrema annae, Zanzibar sawshark, 98 cm TL, female holotype (Tanzania). #



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Pliotrema kajae, 97 cm TL, adult male paratype (Nazareth Bank). #



AD Connell © NRF-SAIAB

Pliotrema warreni, sixgill sawshark, ~48 cm TL (South Africa).

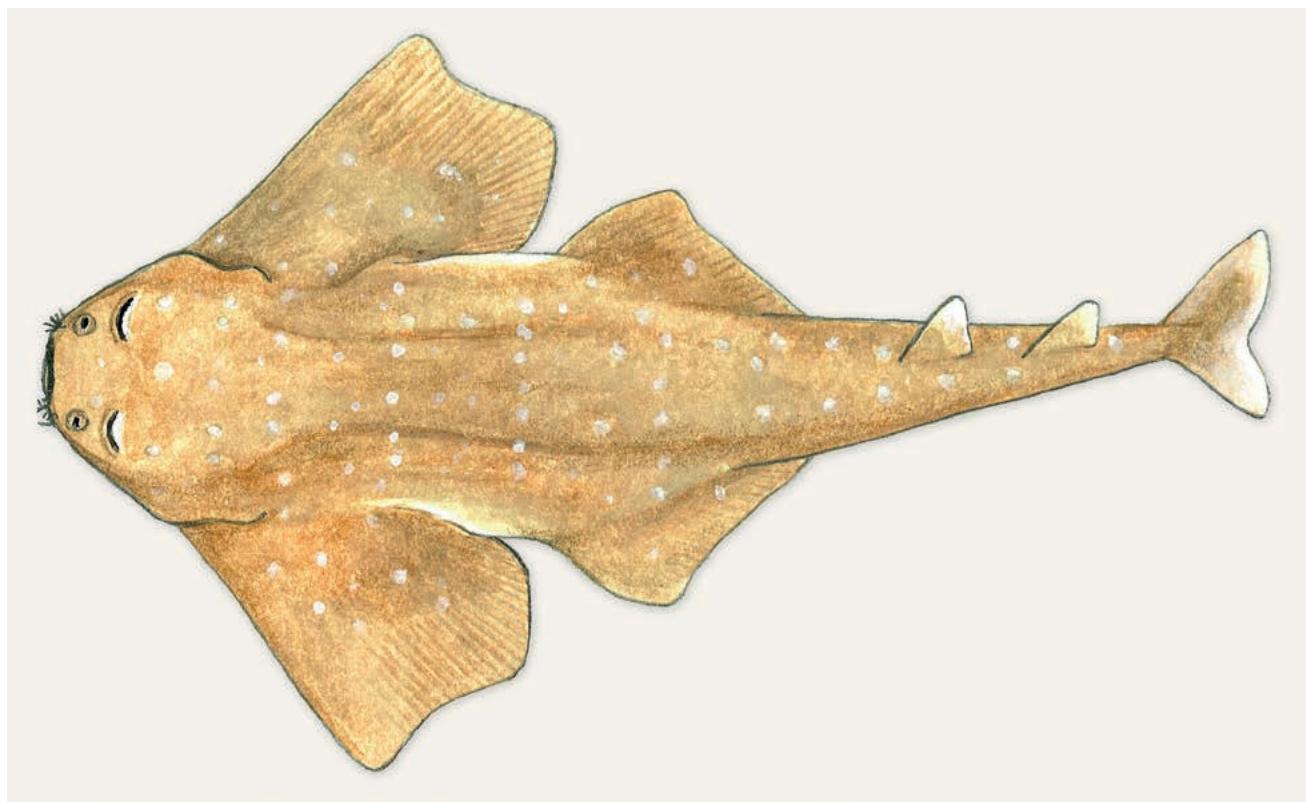
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Family **SQUATINIDAE**, Angel sharks



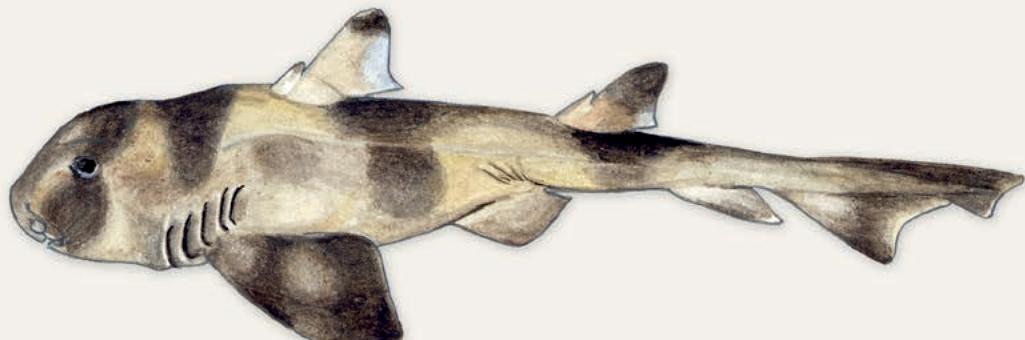
O A V h e i m © I M R

Squatina africana, African angel shark, 29 cm TL (Mozambique).

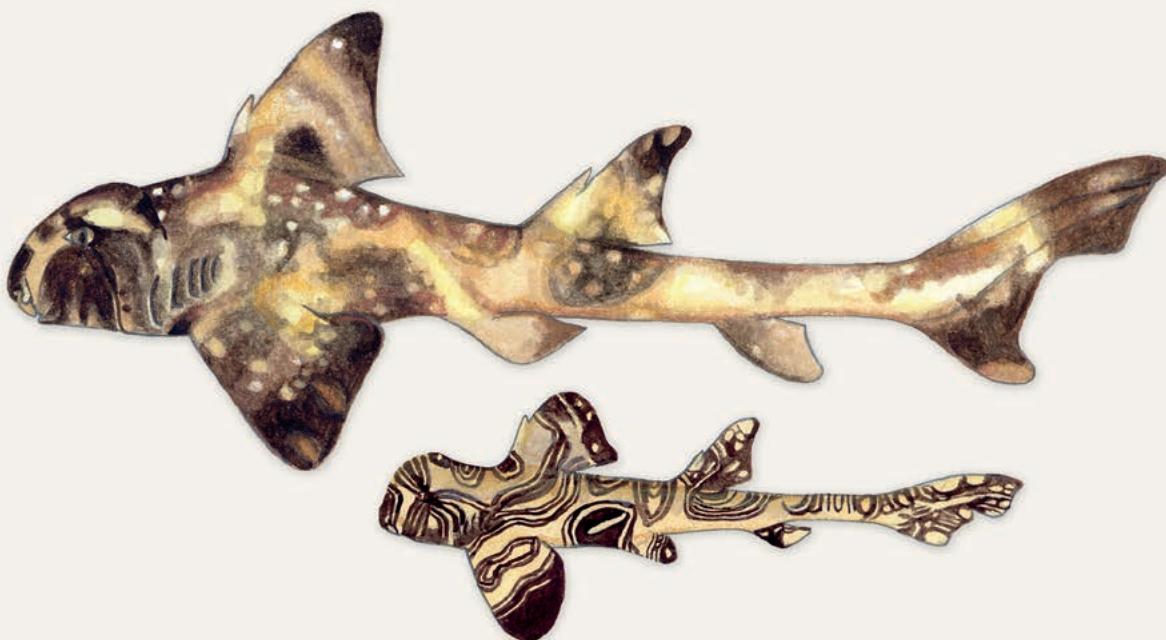


Squatina africana, African angel shark, 100 cm TL (Mozambique).

Family HETERODONTIDAE, Bullhead sharks



Heterodontus omanensis, Oman bullhead shark, ~50 cm TL (Oman).



Heterodontus ramalheira, whitespotted bullhead shark, 39 cm TL, immature female; 18 cm TL, hatchling (both South Africa).

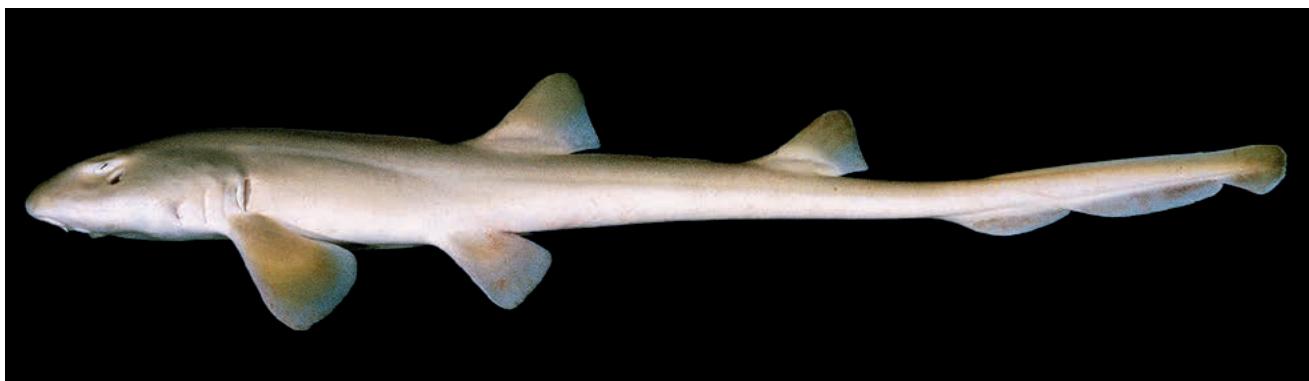


Heterodontus ramalheira, whitespotted bullhead shark, 95 cm TL, adult (Mozambique).

Family **HEMISCYLLIIDAE**, Bamboo sharks

© R Field

Chiloscyllium arabicum, Arabian bamboo shark (Oman).



© J.F. Randall, Bishop Museum

Chiloscyllium arabicum, Arabian bamboo shark, 43 cm TL (Kuwait).



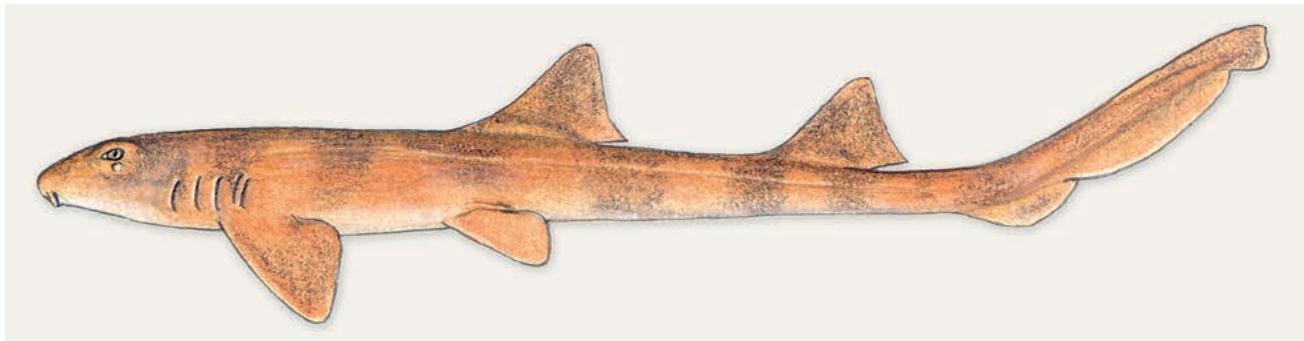
KK Bineesh © CMFRI

Chiloscyllium griseum, grey bamboo shark, 13 cm TL, juvenile (SW India).



KV Akhilesh © CMFRI

Chiloscyllium griseum, grey bamboo shark, 28 cm TL, juvenile (SW India).

Family **HEMISCYLLIIDAE**, Bamboo sharks

Chiloscyllium griseum, grey bamboo shark, 64 cm TL, adult (Indian Ocean.)



© S. Swiegman, ZMH

Chiloscyllium indicum, slender bamboo shark, 41 cm TL, adult male, preserved specimen (Thailand).



Chiloscyllium plagiosum, whitespotted bamboo shark, 67 cm TL (Philippines).

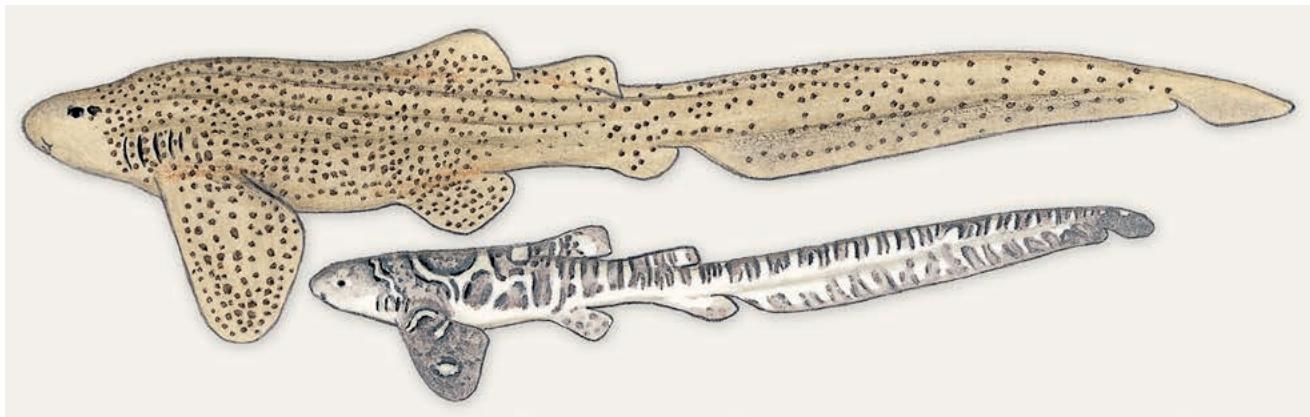


Chiloscyllium punctatum, brownbanded bamboo shark, 15 cm TL, juvenile male (Arabian Sea).

Family **HEMISCYLLIIDAE**, Bamboo sharks

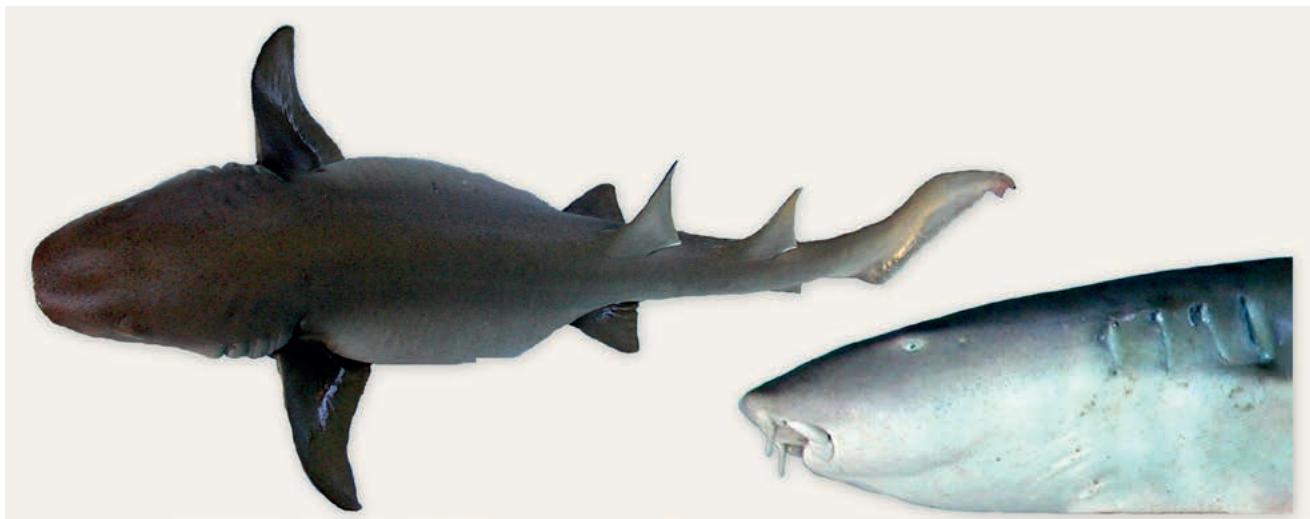
© S Kimura, FRLM

Chiloscyllium punctatum, brownbanded bamboo shark, 47 cm TL (Thailand).

Family **STEGOSTOMATIDAE**, Zebra shark

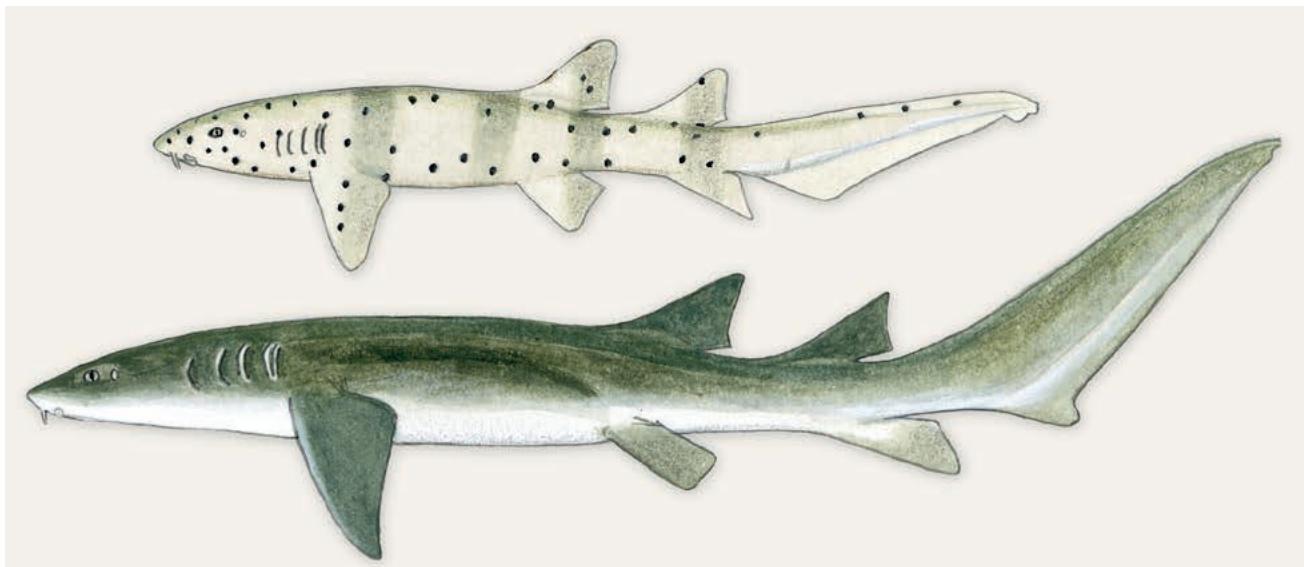
Source: CSFA

Stegostoma tigrinum, zebra shark, ~120 cm TL, subadult (South Africa); 58 cm TL, juvenile (Bahrain).

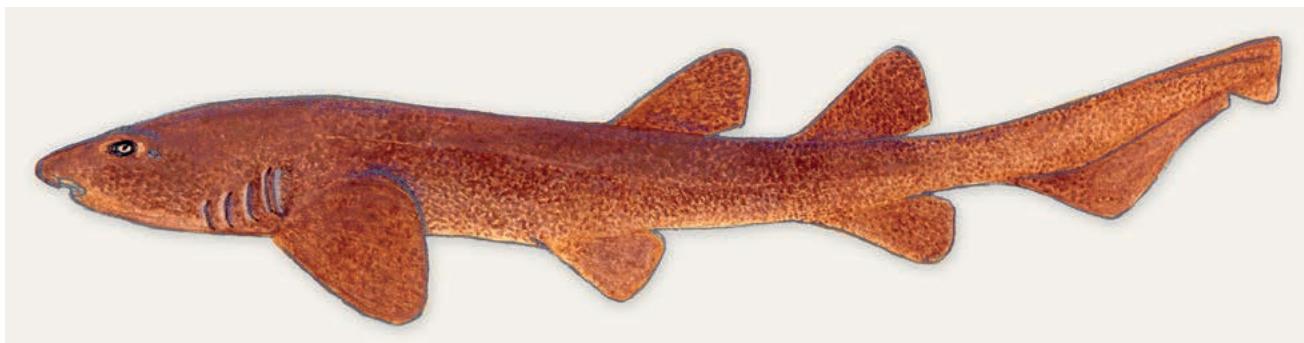
Family **GINGLYMOSTOMATIDAE**, Nurse sharks

PC Heemstra © NBRF-SALAB

Nebrius ferrugineus, tawny nurse shark, 120 cm TL (Seychelles).

Family **GINGLYMOSOMATIDAE**, Nurse sharks

Nebrius ferrugineus, tawny nurse shark, juvenile (Mauritius); 270 cm TL, adult (WIO).

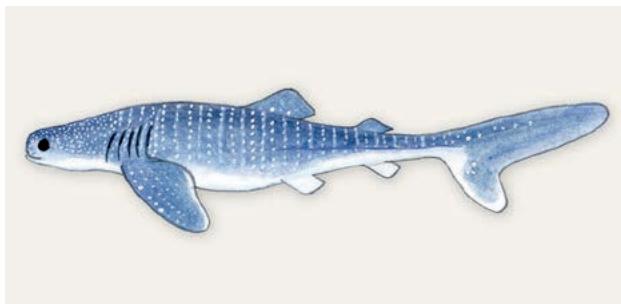


Pseudoginglymostoma brevicaudatum, shorttail nurse shark, ~65 cm TL, female (SW Indian Ocean).

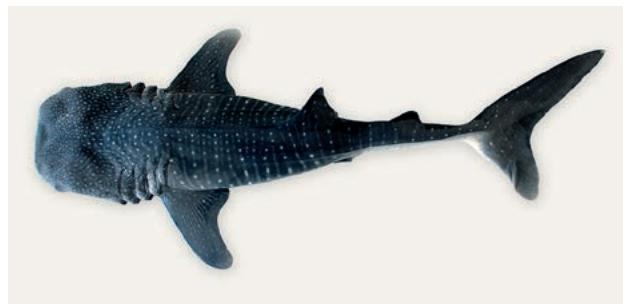
Family **RHINCODONTIDAE**, Whale shark

Source: CFS

Rhincodon typus, whale shark, 3.5 m, juvenile (South Africa).

Family **RHINCODONTIDAE**, Whale shark

Rhincodon typus, whale shark, 60 cm TL, juvenile (Taiwan).



Rhincodon typus, whale shark, juvenile (SW India).

KV Akhilesh © CMFRI

Family **CARCHARIIDAE**, Raggedtooth shark

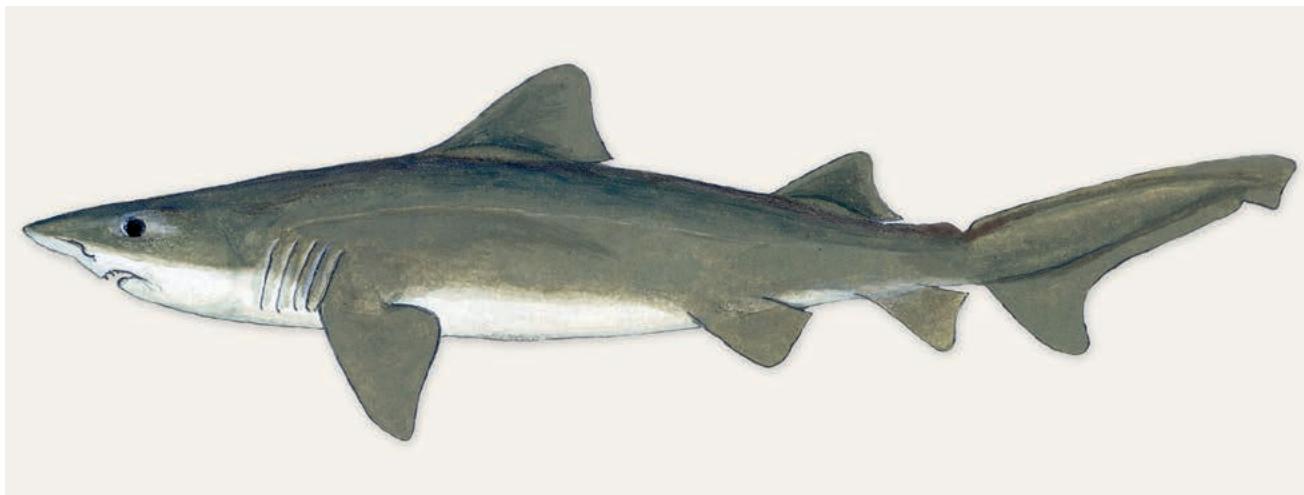
Carcharias taurus, raggedtooth shark, 103 cm TL, immature male (South Africa).

Source: CFSA

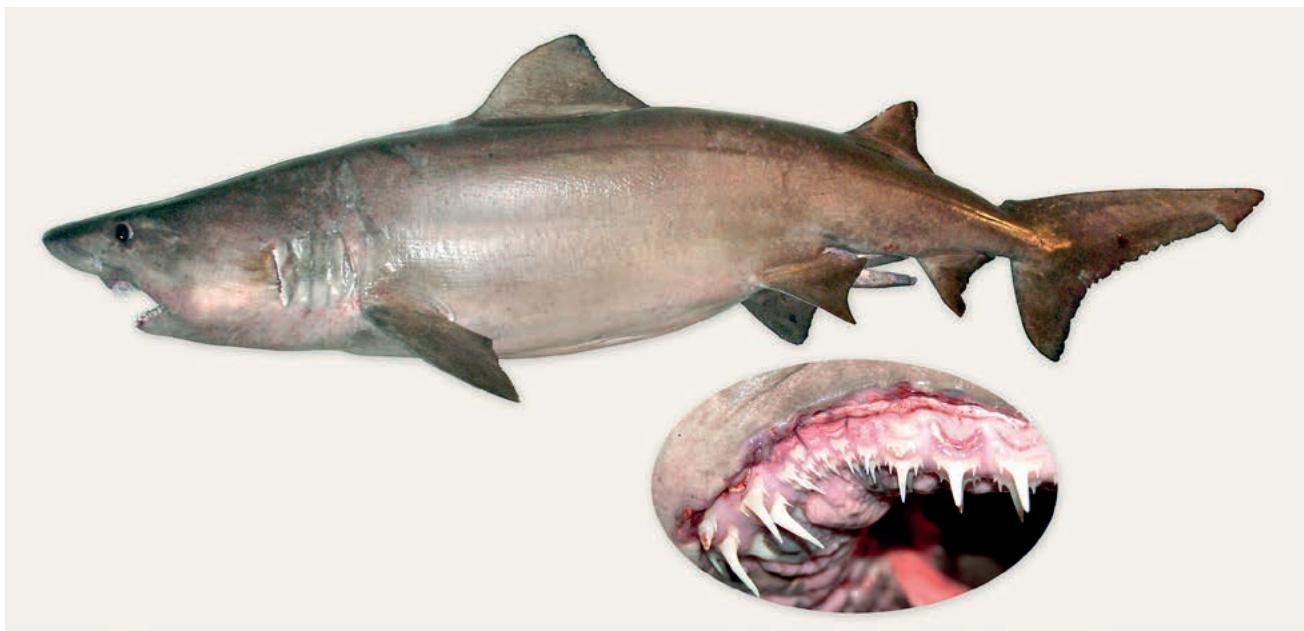


Carcharias taurus, raggedtooth shark aggregation (South Africa).

© DR King

Family **ODONTASPIDIDAE**, Sandtiger sharks

Odontaspis ferox, smalltooth sandtiger, 1.6 m TL (Japan).

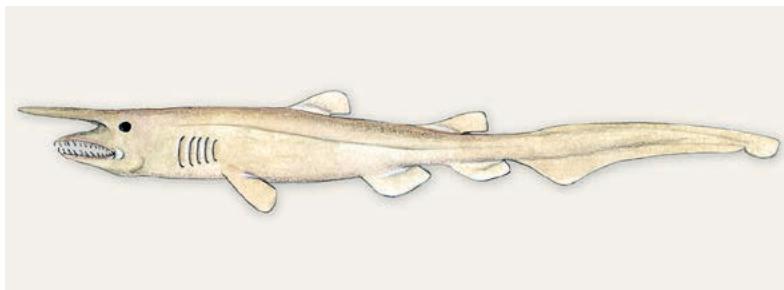


Odontaspis ferox, smalltooth sandtiger, 3.1 m TL male (Nigeria).

O Alvhheim © IMR



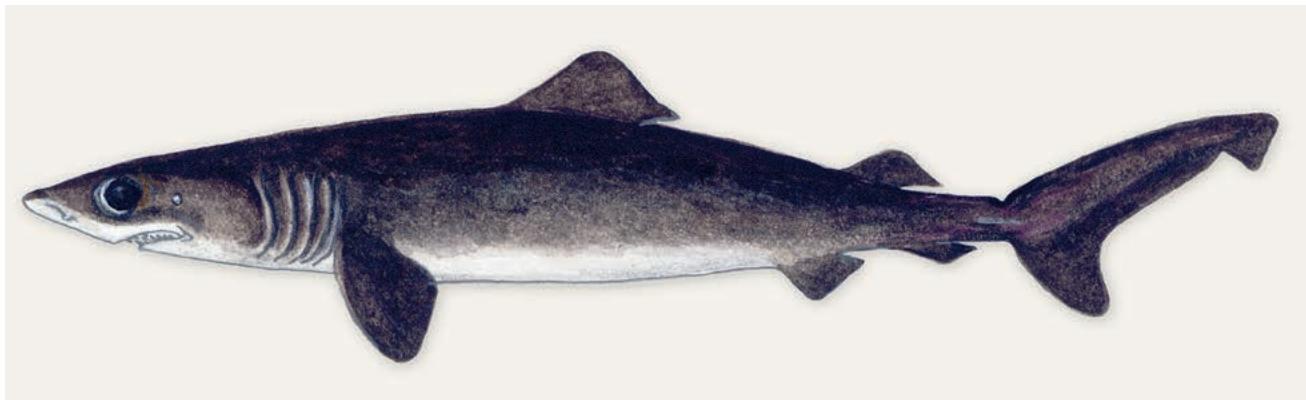
Odontaspis noronhai, bigeye sandtiger (Indian Ocean).

Family **MITSUKURINIDAE**, Goblin shark

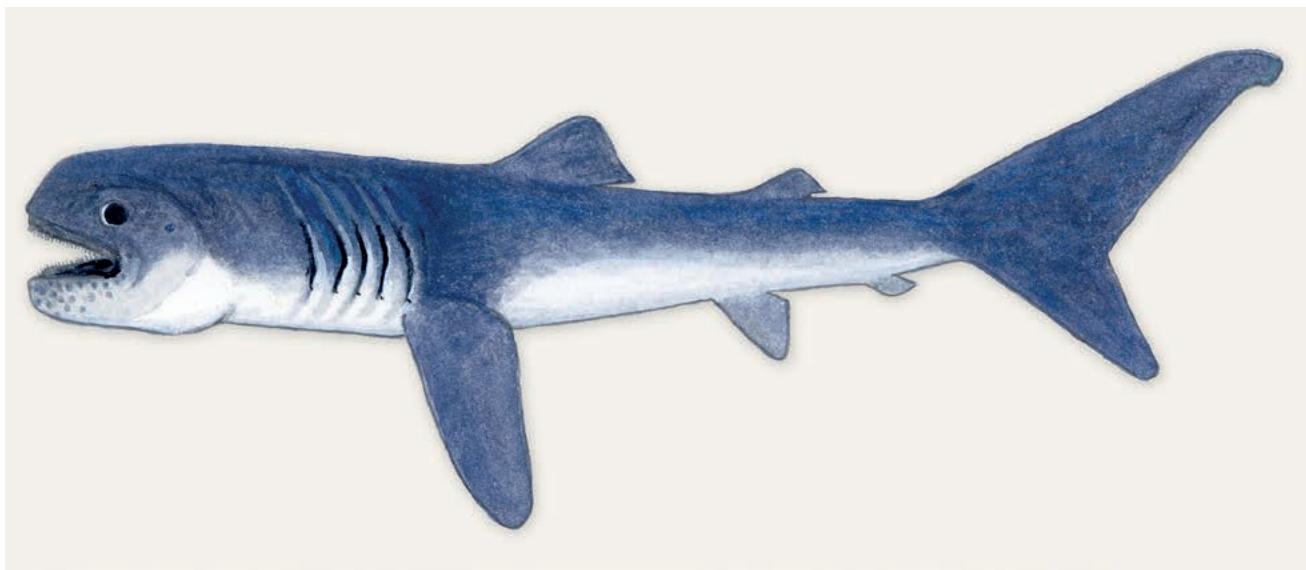
Mitsukurina owstoni, goblin shark, 120 cm TL, immature female.



Mitsukurina owstoni, goblin shark, juvenile, with jaws protruded (Australia).

Family **PSEUDOCARCHARIIDAE**, Crocodile shark

Pseudocarcharias kamoharai, crocodile shark, 120 cm TL (Japan).

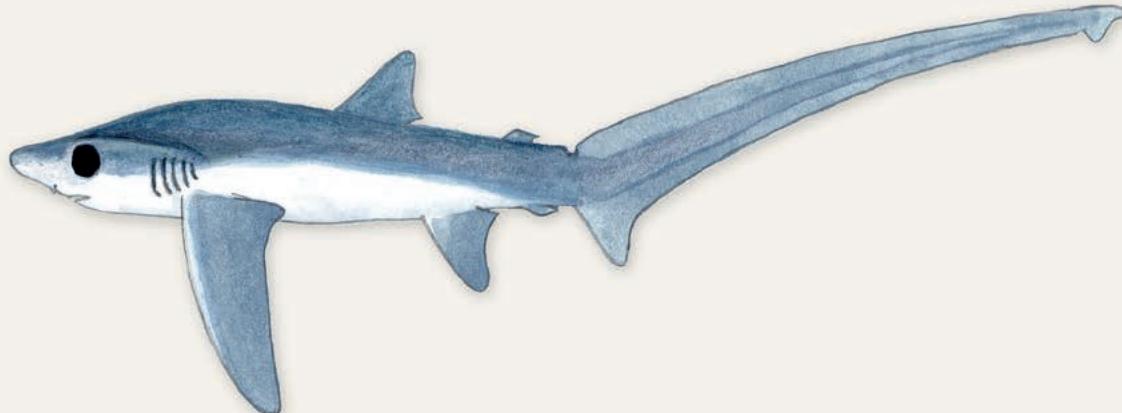
Family **MEGACHASMIDAE**, Megamouth shark

Megachasma pelagios, megamouth shark, 190 cm TL, juvenile male (Indian Ocean).

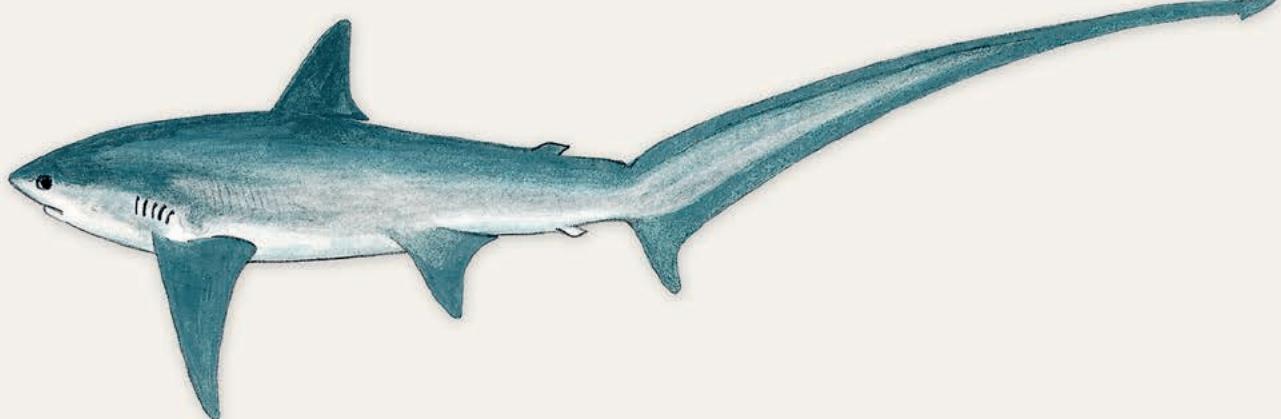
Family ALOPIIDAE, Thresher sharks



Alopis pelagicus, pelagic thresher, ~100 cm TL (Japan).

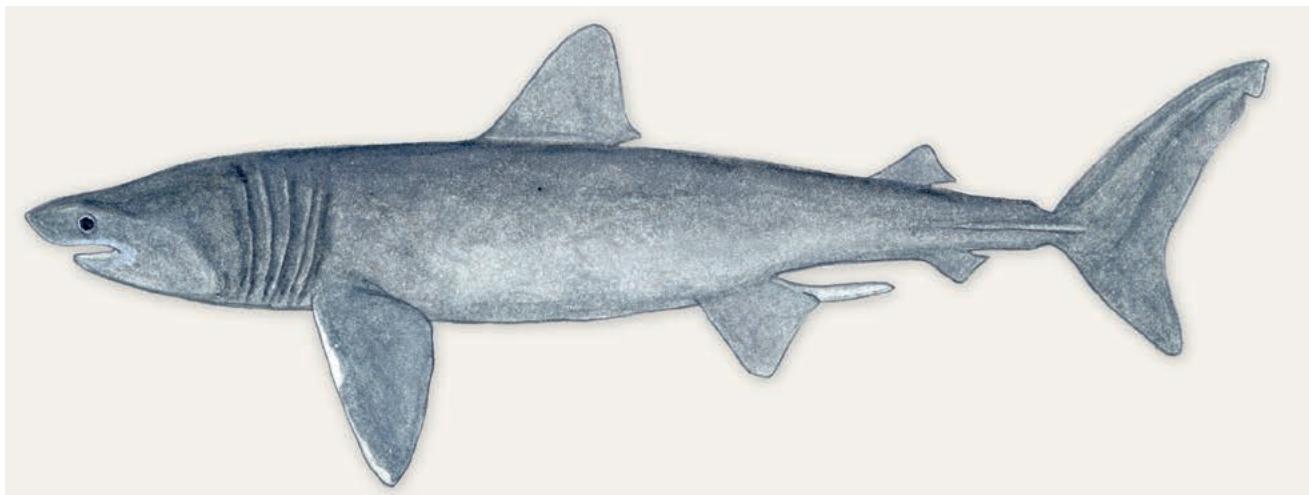


Alopis superciliosus, bigeye thresher, 160 cm TL, immature female (W Atlantic).

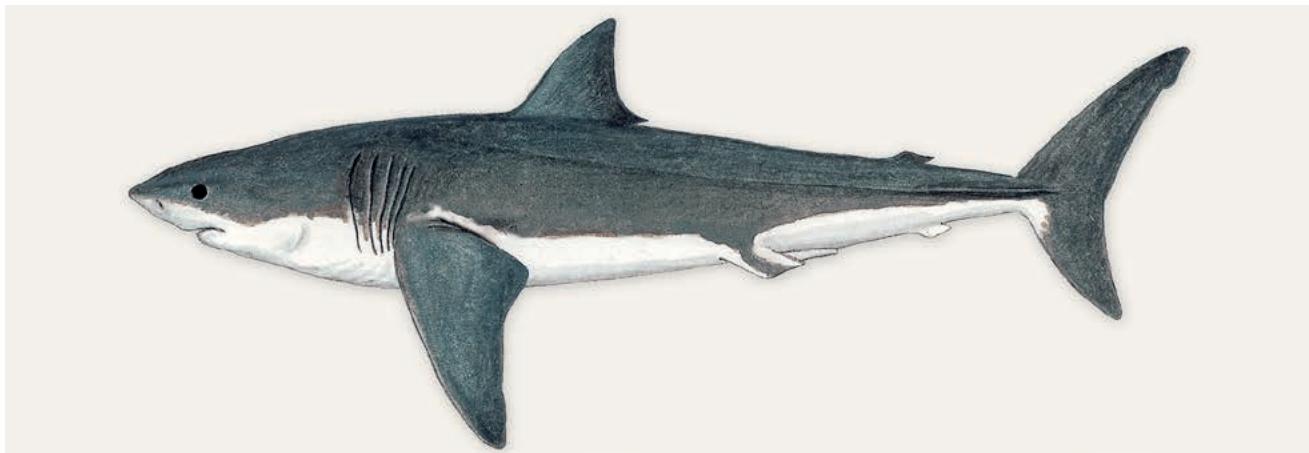


Alopis vulpinus, thresher shark, ~3.5 m TL, mature female (Australia).

Source: CFSA

Family **CETORHINIDAE**, Basking shark

Cetorhinus maximus, basking shark (Atlantic Ocean).

Family **LAMNIDAE**, Mackerel sharks

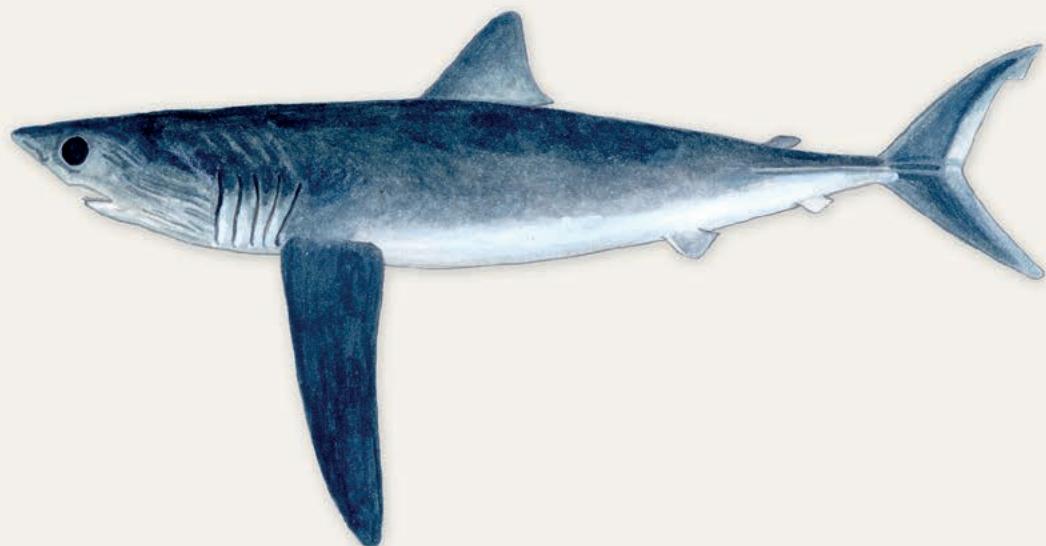
Carcharodon carcharias, white shark, ~ 4 m TL, mature male (South Africa).

Source: CFSA



Isurus oxyrinchus, shortfin mako, ~250 cm TL, female (South Africa).

Source: CFSA

Family **LAMNIDAE**, Mackerel sharks

Isurus paucus, longfin mako, 230 cm TL (Japan).



Lamna nasus, porbeagle, 94 cm TL, immature male (South Africa).

Source: SSF

Family **PENTANCHIDAE**, Deepwater catsharks

Bythaelurus clevai, broadhead catshark, 22 cm TL (Mozambique). #

= no species account

O Alvhelm © IMR

Family PENTANCHIDAE, Deepwater catsharks



© PJ Cierkin, MLLM

Bythaelurus naylori, dusksnout catshark, 45 cm TL, adult male holotype (Southwest Indian Ridge). #



O Alvheim © IMR

Halaelurus lineatus, banded catshark, ~45 cm TL (Mozambique).



© P Southwood

Halaelurus natalensis, tiger catshark, juvenile (South Africa).



© R Stevenson

Halaelurus natalensis, tiger catshark (South Africa).

= no species account

Family PENTANCHIDAE, Deepwater catsharks



Haelaelurus quagga, quagga catshark, 37 cm TL, female (SW India).

KV Athiresh © CMFRI



Haploblepharus edwardsii, happy Eddie, 45 cm TL, dorsal view (South Africa).

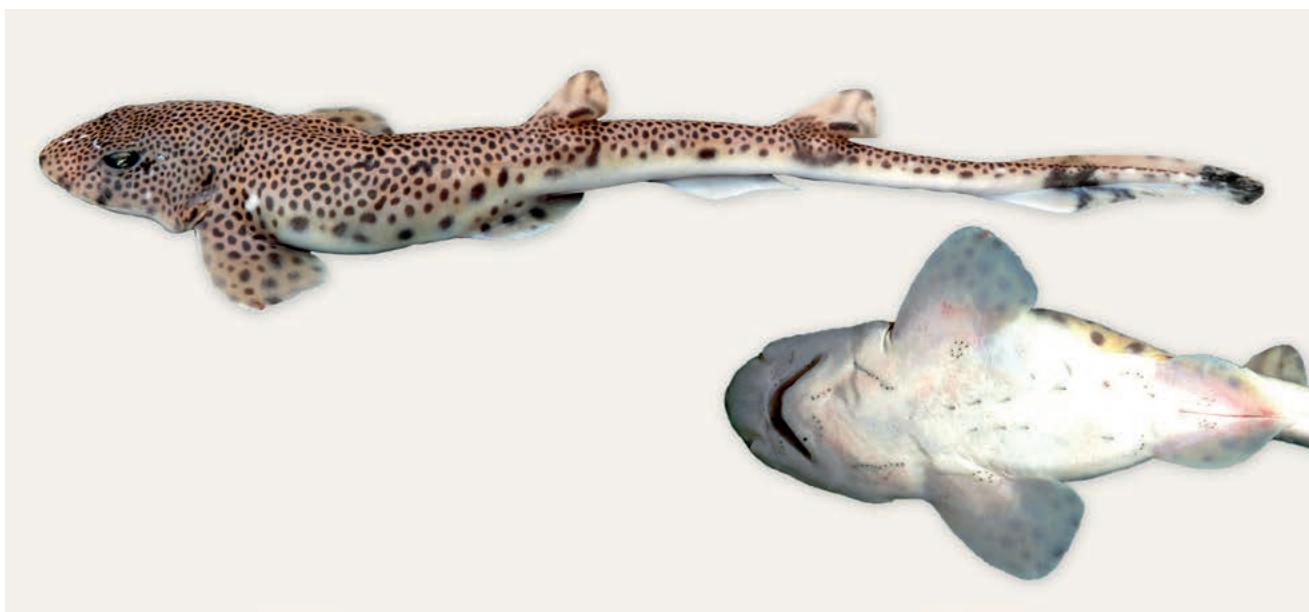
O Alvheim © IIMR



Haploblepharus fuscus, brown shyshark (South Africa).

© J Swanepoel

Family PENTANCHIDAE, Deepwater catsharks



© Alvheim © IMR

Holohaelurus gennian, grinning Izak, 26 cm TL (Mozambique).



© B Human

Holohaelurus punctatus, white-spotted Izak, 30 cm TL, male neotype, preserved specimen (Mozambique).



© RW Leslie

Holohaelurus regani, Izak, 58 cm TL (South Africa).

Family PENTANCHIDAE, Deepwater catsharks



Holohalaelurus regani, Izak, 15 cm TL, 11 cm TL, juveniles (South Africa).

O Alvesheim © IMR

Family SCYLIORHINIDAE, Catsharks



Cephaloscyllium silasi, Indian swellshark, 43 cm TL, and 8-cm-TL egg case (SW India). #

KV Achhlesh © CMFRI



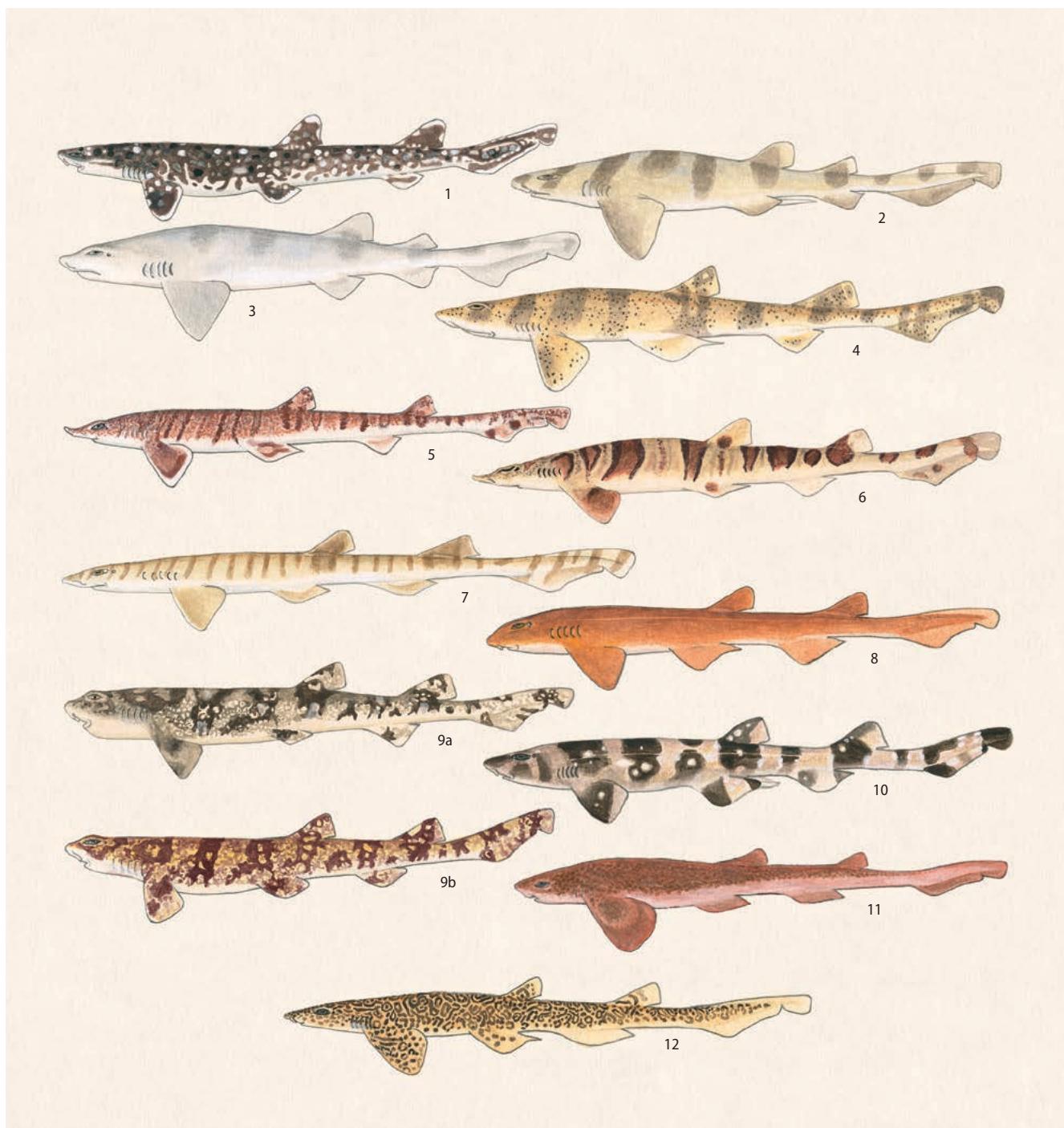
Cephaloscyllium sufflans, balloon catshark, 20 cm TL (South Africa).

AD Connell © NRF-SAIB

= no species account

Family PENTANCHIDAE, Deepwater catsharks

Family SCYLIORHINIDAE, Catsharks



SCYLIORHINIDAE: 1 *Atelomycterus marmoratus*, coral catshark, 65 cm TL (Philippines). 2 *Cephaloscyllium silasi*. # 3 *Cephaloscyllium sufflans*, balloon shark, 42 cm TL, immature male (South Africa).

PENTANCHIDAE: 4 *Haelurus boesemani*, speckled catshark. 5 *Haelurus lineatus*, banded catshark, 48 cm TL, mature female (South Africa).

6 *Haelurus natalensis*, tiger catshark, 44 cm TL, mature female (South Africa).* 7 *Haelurus quagga*, quagga catshark. 8 *Haploblepharus fuscus*, brown shyshark, 43 cm TL, immature male (South Africa).

9 *Haploblepharus kistnasamyi*, happy chappie, (a) 44 cm TL, (b) 43 cm TL (both South Africa).

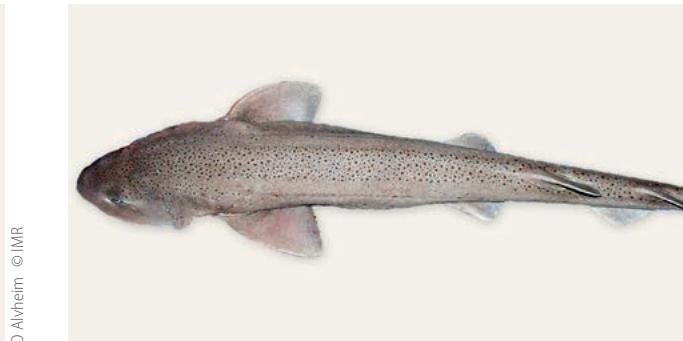
10 *Haploblepharus pictus*, pretty happy, 56 cm TL, mature male (South Africa). 11 *Holohaelurus favus*, honeycomb Izak, 37 cm TL (South Africa).

12 *Holohaelurus regani*, Izak, 54 cm TL, male (South Africa).

Family SCYLIORHINIDAE, Catsharks



Poroderma africanum, pyjama shark, 42 cm TL (South Africa).



Poroderma pantherinum, leopard catshark, 62 cm TL (South Africa).

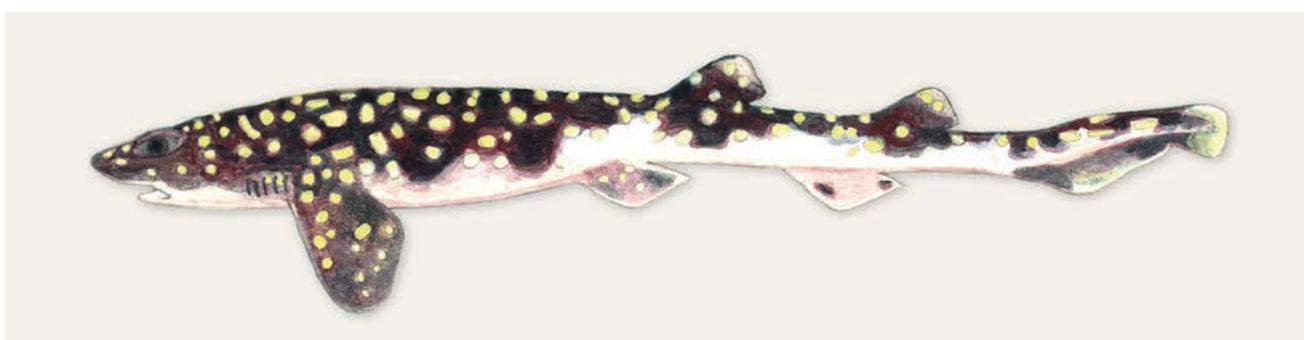
© Alvheim © IMR

© C de la Harpe



Scyliorhinus capensis, yellowspotted catshark, 21 cm TL (South Africa).

© C Heemstra © NRF-SAIAB



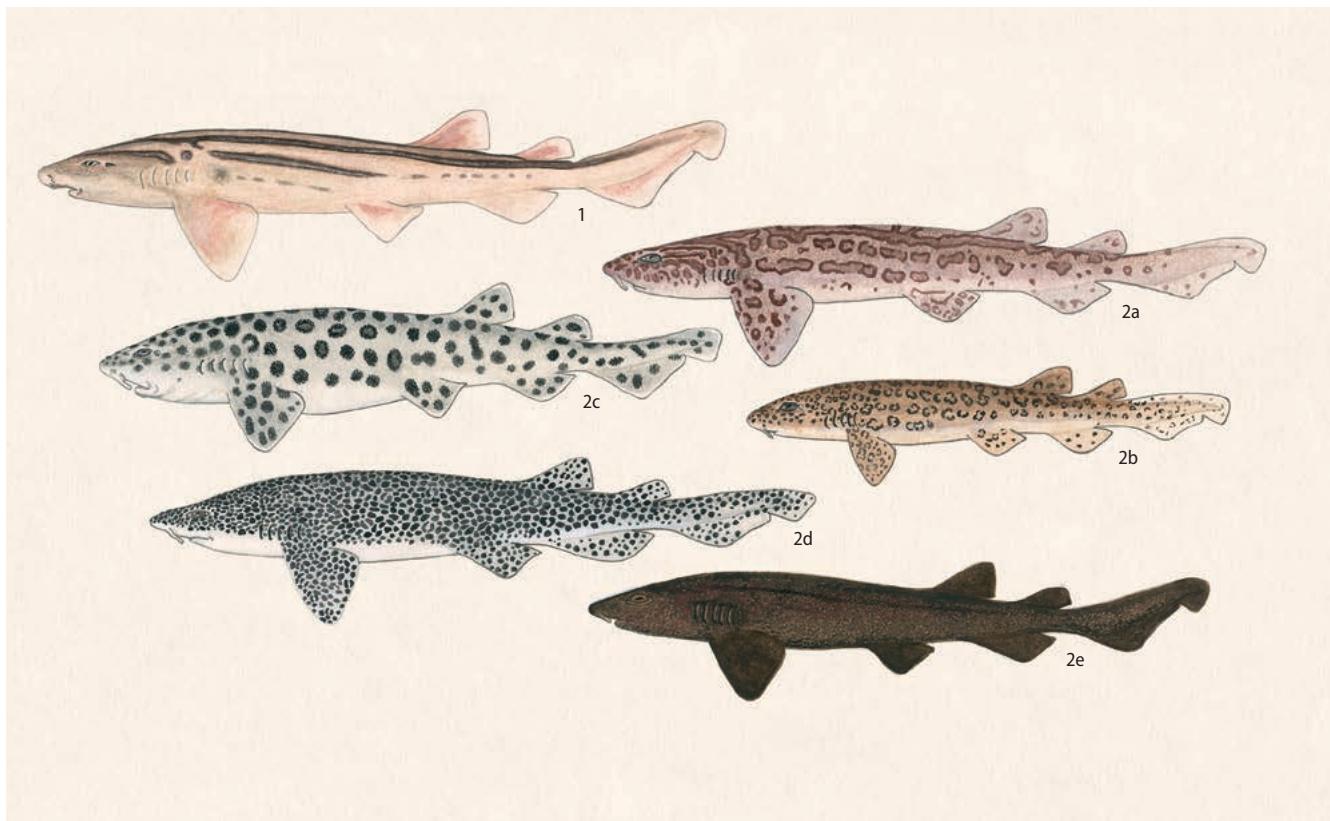
Scyliorhinus capensis, yellowspotted catshark, 34 cm TL (South Africa).



Scyliorhinus comoroensis, Comoro catshark, ~50 cm TL composite (Comoros).

© J Escobar-Porras

Family SCYLIORHINIDAE, Catsharks



1 *Poroderma africanum*, pyjama shark, 72 cm TL, mature female (South Africa).* **2** *Poroderma pantherinum*, leopard catshark, **(a)** 56 cm TL, **(b)** 34 cm TL immature male, **(c)** ~43 cm TL, marleyi form, female, **(d)** ~45 cm TL, salt & pepper form, female, **(e)** ~45 cm TL, black False Bay form, female (all South Africa).

Family PROSCYLLIIDAE, Finback catsharks



Eridacnis radcliffei, pygmy ribbontail catshark, ~17 cm TL (SW India).

KV Akhilash © CMFRI

* Source: CFSA

Family **PROSCYLLIIDAE**, Finback catsharks

Eridacnis sinuans, African ribbontail catshark, 8–15 cm TL (S Mozambique).

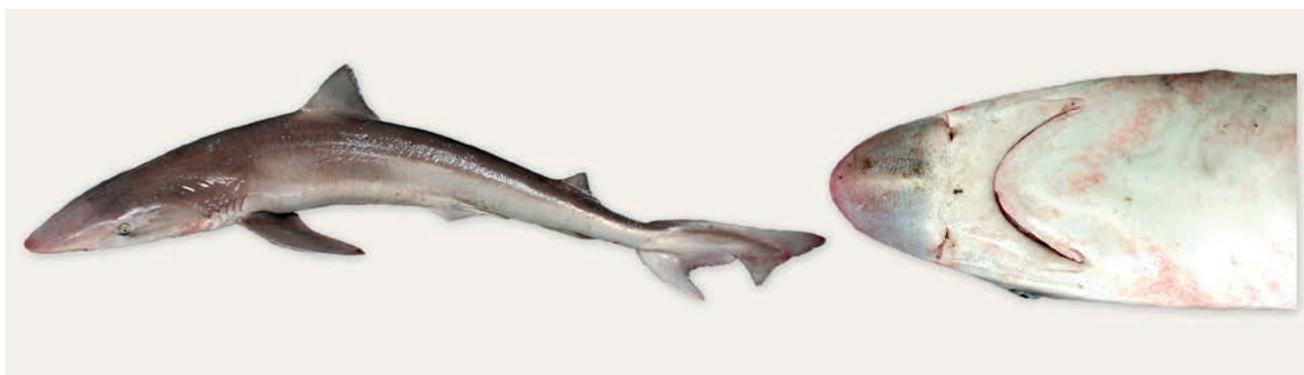
O Alvheim © IMR

Family **PSEUDOTRIAKIDAE**, False catsharks

© K-T Shao, ASI

Pseudotriakis microdon, false catshark (Taiwan).

Family TRIAKIDAE, Houndsharks



O. Alvhheim © IMR

Galeorhinus galeus, tope, 142 cm TL, mature male (South Africa).



© H.-C. Ho, NMMBP

Mustelus manazo, starspotted smoothhound, 53 cm TL (Taiwan).



O. Alvhheim © IMR/ASCLME

Mustelus cf. *manazo*, 65 cm TL (Saya de Malha Bank). #

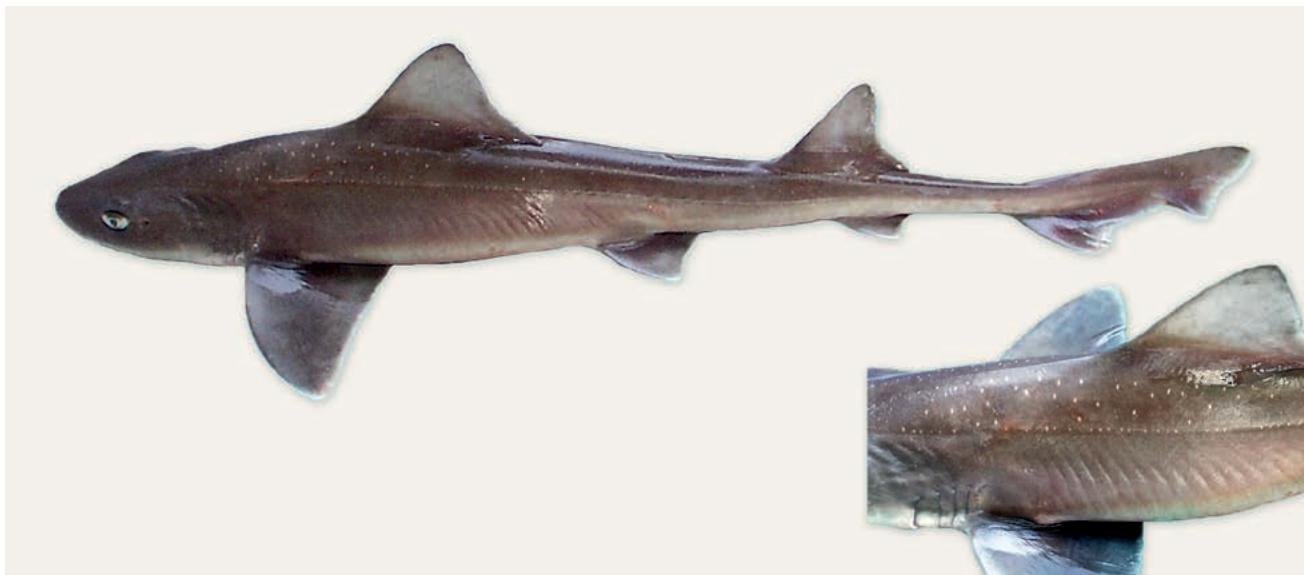


O. Alvhheim © IMR

Mustelus mosis, hardnose smoothhound, 53 cm TL, male (Mozambique).

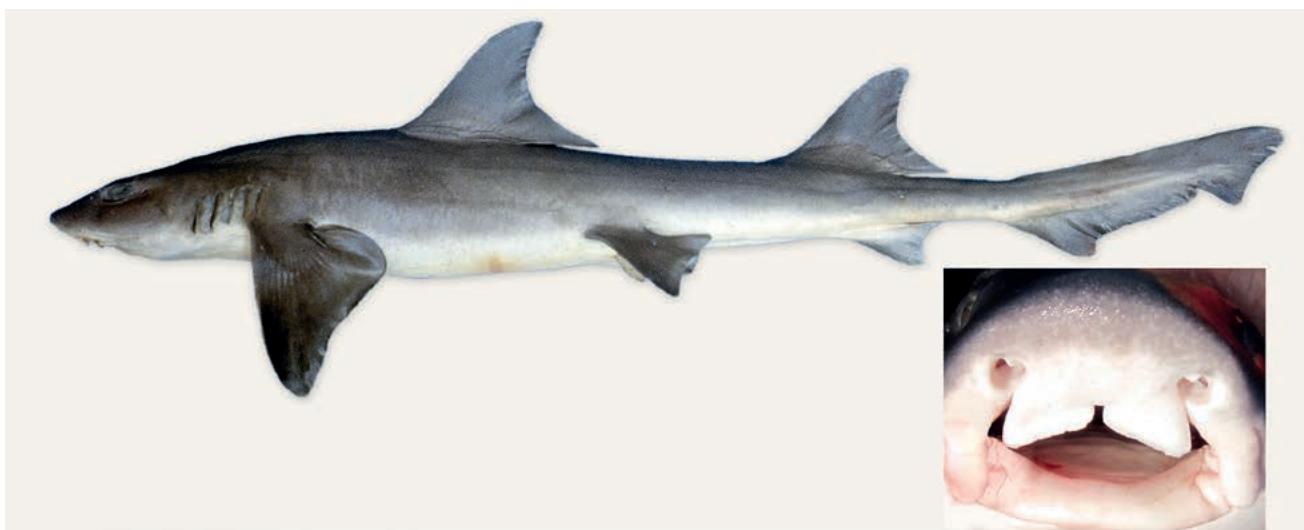
= no species account

Family TRIAKIDAE, Houndsharks



O Alvheim © IMR

Mustelus palumbes, whitespotted smoothhound, 73 cm TL (South Africa).



© ST Fennelly and (inset) B Mann, both ORI/SAAMBR

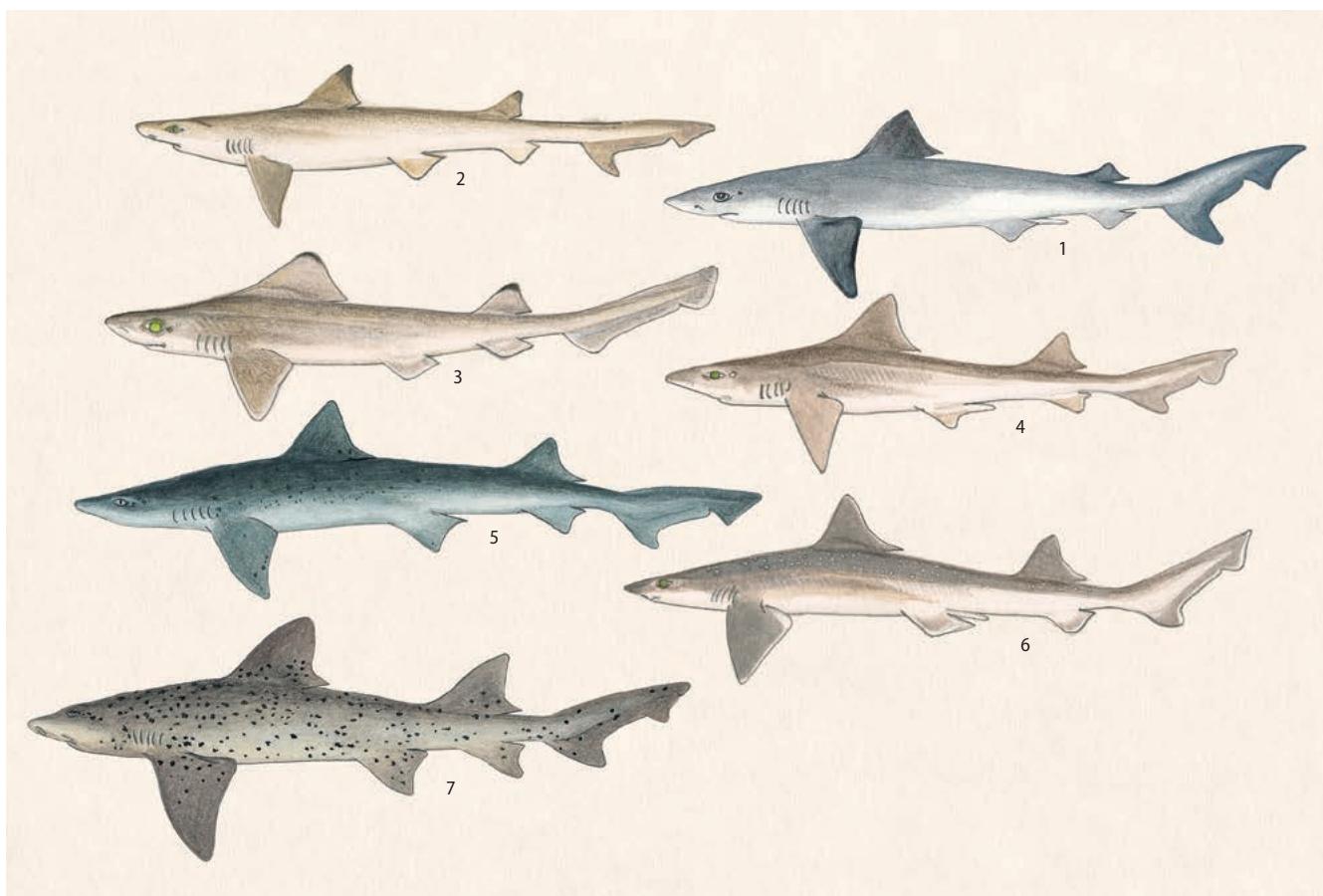
Scylliogaleus quecketti, flapnose houndshark, mouthparts inset (South Africa).



© C Caine

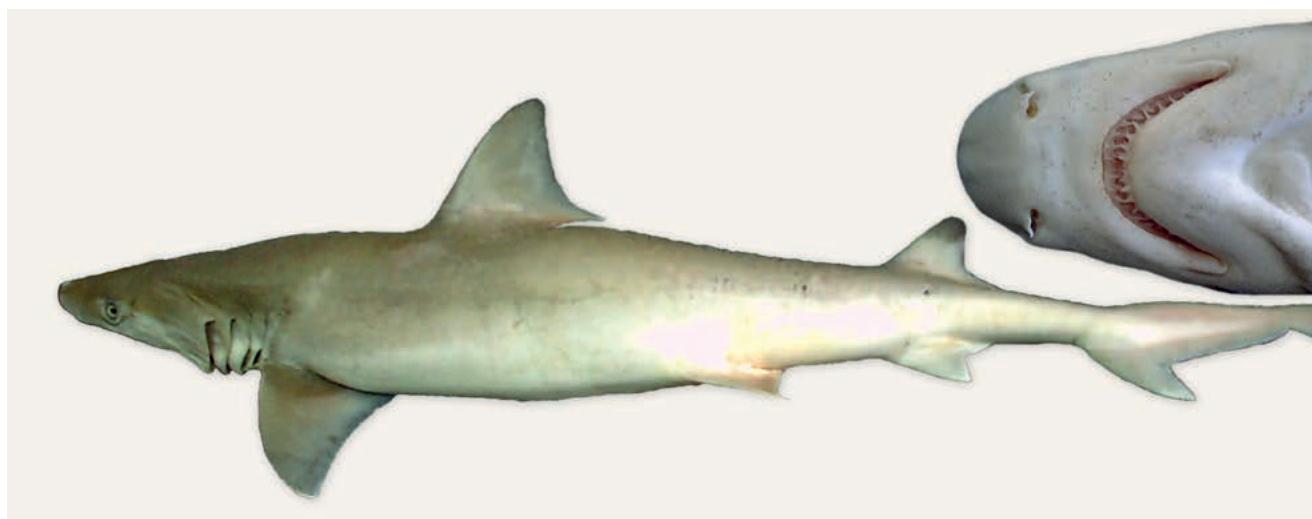
Triakis megalopterus, spotted gullyshark (South Africa).

Family TRIAKIDAE, Houndsharks



1 *Galeorhinus galeus*, tope, 130 cm TL, mature male (South Africa).* **2** *Hypogaleus hyugaensis*, blacktip tope, 62 cm TL (Persian/Arabian Gulf).
3 *Iago omanensis*, bigeye houndshark, ~40 cm TL (Red Sea). **4** *Mustelus mosis*, hardnose smoothhound, 76 cm TL, male (Red Sea). **5** *Mustelus mustelus*, smoothhound, 140 cm TL, mature female (South Africa).* **6** *Mustelus palumbes*, whitespotted smoothhound, 73 cm TL (South Africa).*
7 *Triakis megalopterus*, spotted gullyshark, 150 cm TL, mature female (South Africa).*

Family HEMIGALEIDAE, Weasel sharks



© M Harris

Chaenogaleus macrostoma, hooktooth shark (Oman).

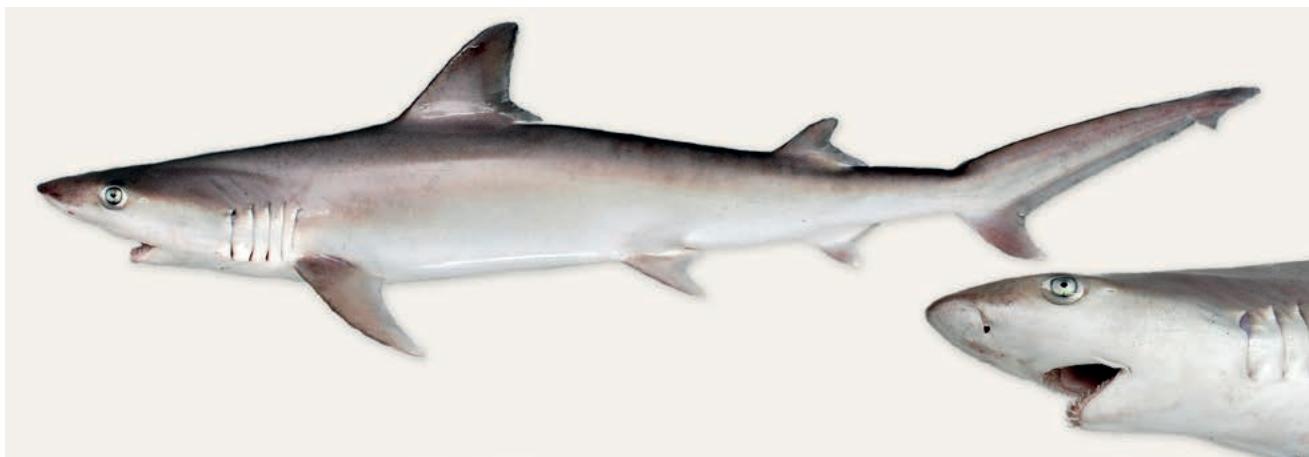
* Source: CFSA

Family HEMIGALEIDAE, Weasel sharks



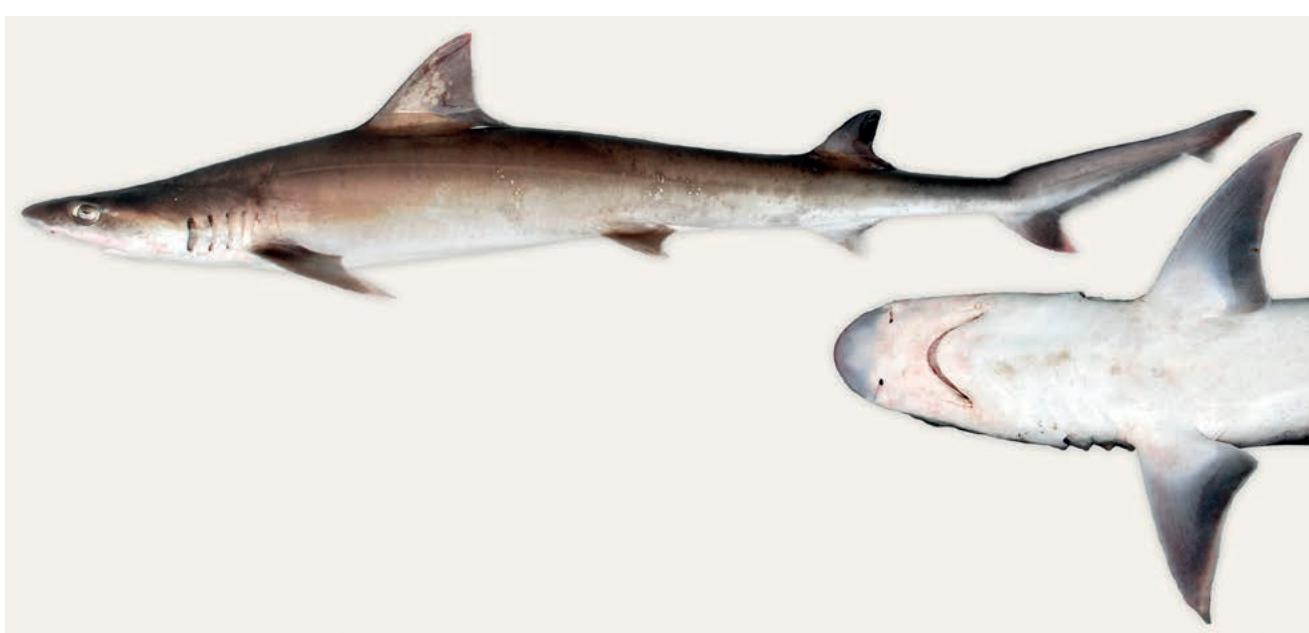
Hemigaleus microstoma, sicklefin weasel shark, 111 cm TL (Indonesia).

© JE Randall, Bishop Museum



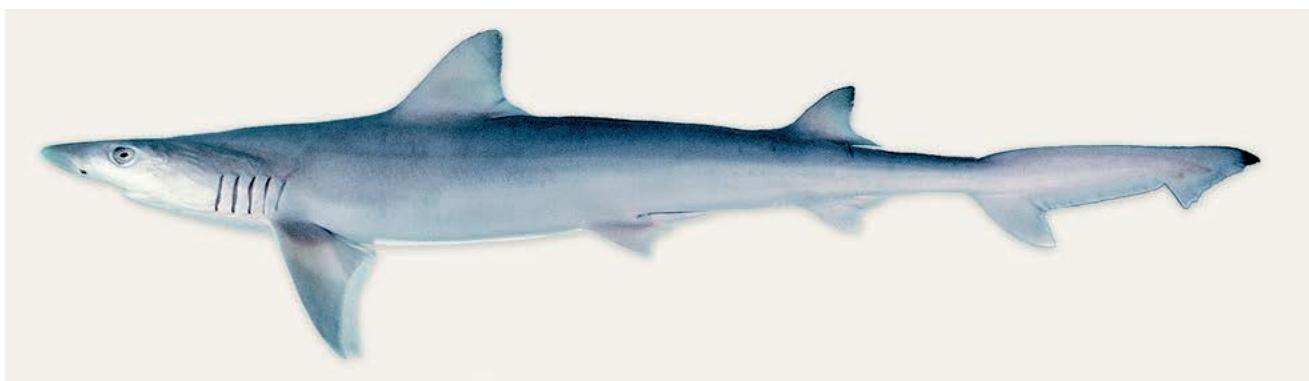
Hemipristis elongata, snaggletooth shark, 72 cm TL (N Mozambique).

O Alvhheim © IMR



Paragaleus leucolomatus, whitetip weasel shark, 103 cm TL (S Mozambique).

O Alvhheim © IMR

Family **HEMIGALEIDAE**, Weasel sharks

© J.F.Randall, Bishop Museum

Paragaleus randalli, slender weasel shark, 62 cm TL, male (Persian/Arabian Gulf).

Family **CARCHARHINIDAE**, Requiem sharks

© P.Timm

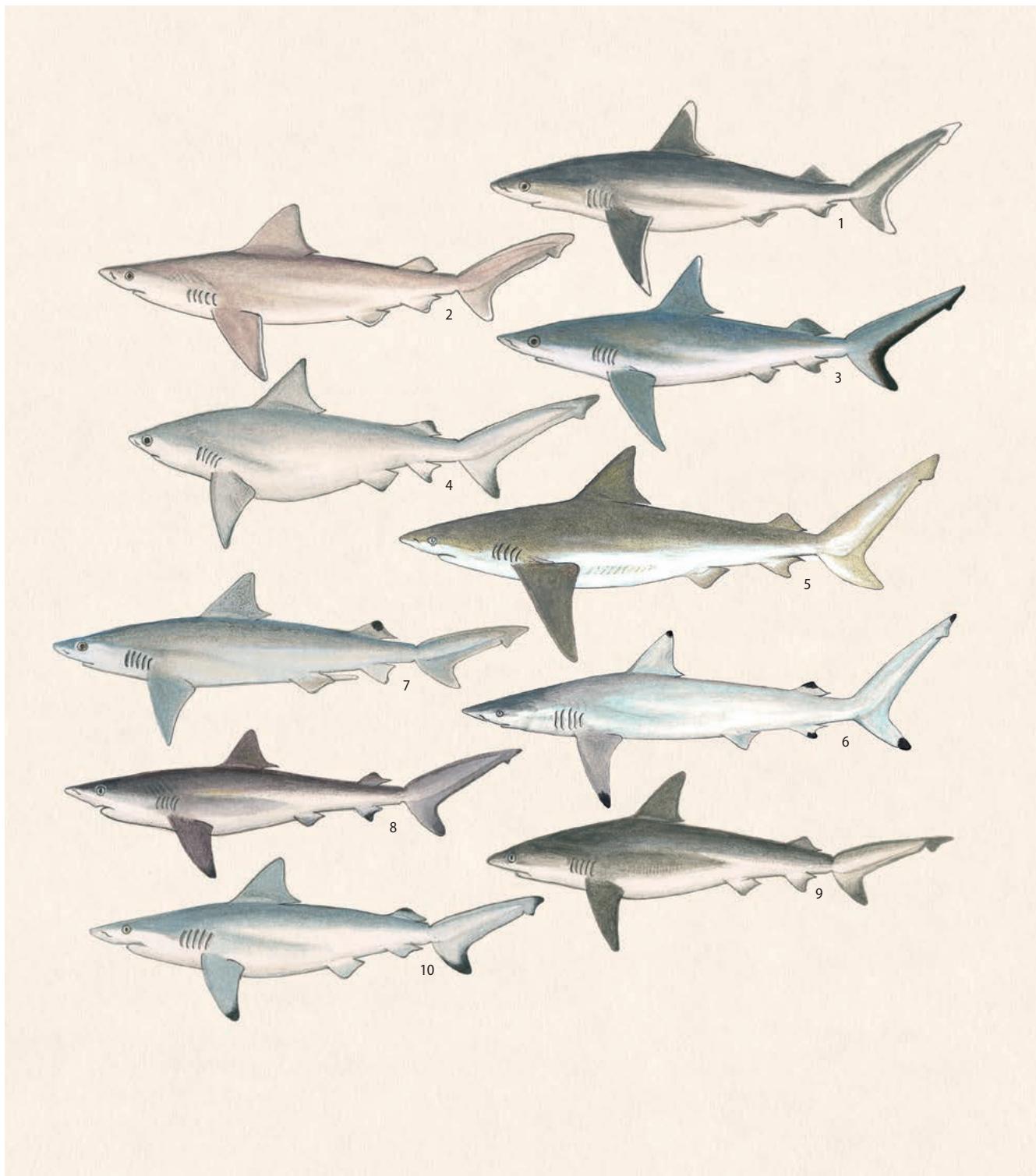
Carcharhinus albimarginatus, silvertip shark (South Africa).



© H.B.Osmany

Carcharhinus amblyrhynchos, graceful shark, 67 cm TL (Pakistan).

Family CARCHARHINIDAE, Requiem sharks



- 1** *Carcharhinus albimarginatus*, silvertip shark, 120 cm TL (New Guinea). **2** *Carcharhinus altimus*, bignose shark, ~75 cm TL (Atlantic Ocean).
3 *Carcharhinus amblyrhynchos*, grey reef shark, 76 cm TL (Saudi Arabia). **4** *Carcharhinus amboinensis*, pigeye shark, 80 cm TL (Persian/Arabian Gulf).
5 *Carcharhinus brachyurus*, bronze whaler, ~180 cm TL, juvenile (South Africa).* **6** *Carcharhinus brevipinna*, spinner shark, 180 cm TL, immature male (Japan).* **7** *Carcharhinus dussumieri*, whitecheek shark, 72 cm TL, male (Persian/Arabian Gulf). **8** *Carcharhinus falciformis*, silky shark, 110 cm TL (Taiwan).
9 *Carcharhinus galapagensis*, Galapagos shark, 94 cm TL (Azores). **10** *Carcharhinus hemiodon*, Pondicherry shark, 50 cm TL (India).

* Source: CFSA

Family **CARCHARHINIDAE**, Requiem sharks

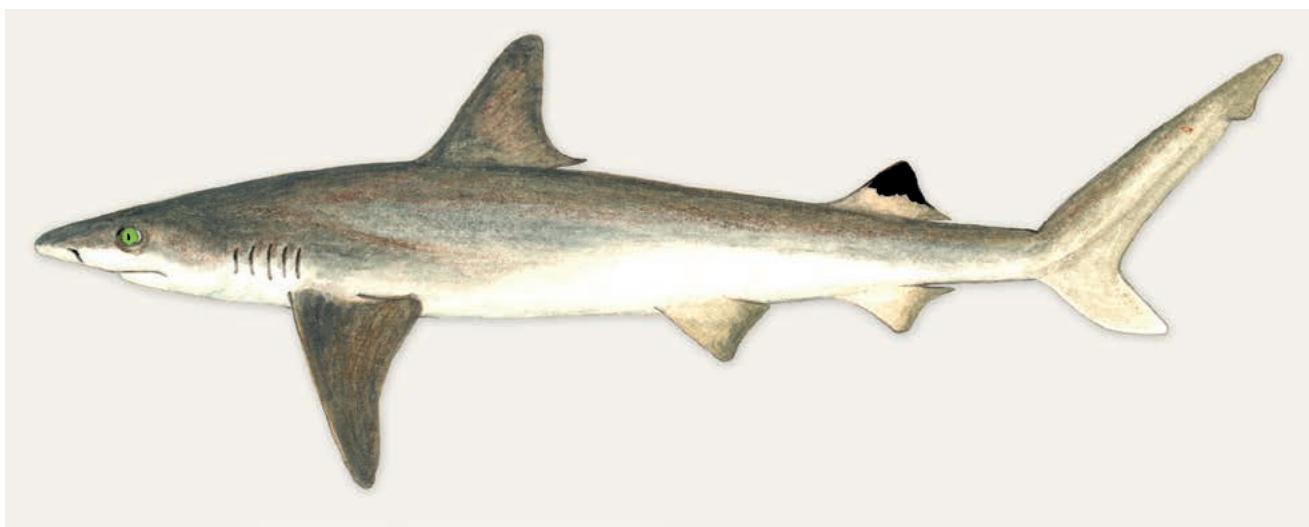
Carcharhinus amblyrhynchos, grey reef shark, 68 cm TL (Mozambique).

© Alvheim © IMR

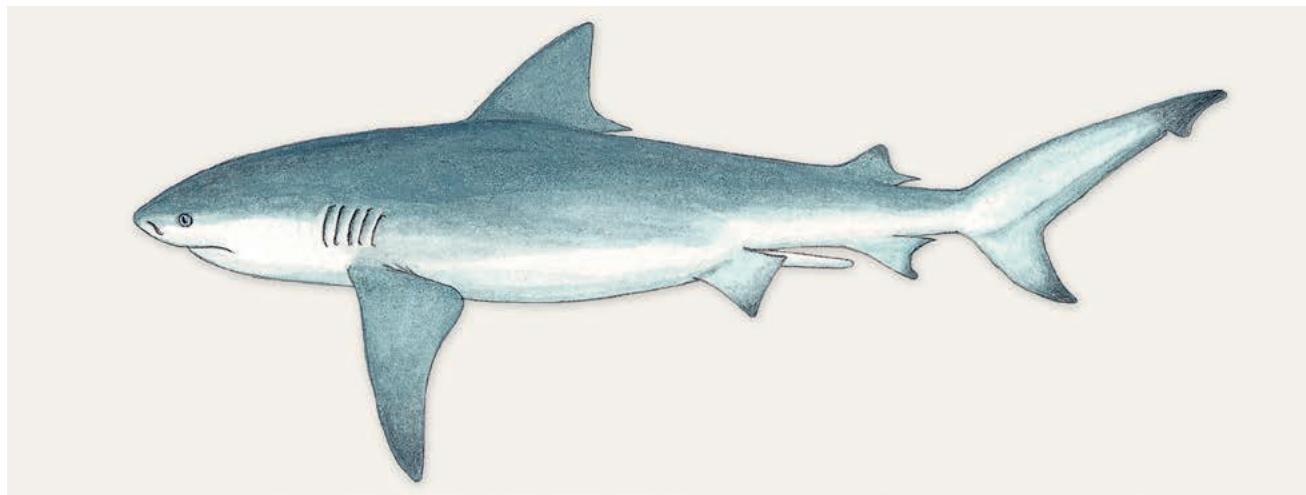


Carcharhinus humani, Human's whaler shark, 77 cm TL (Mozambique).

© Alvheim © IMR



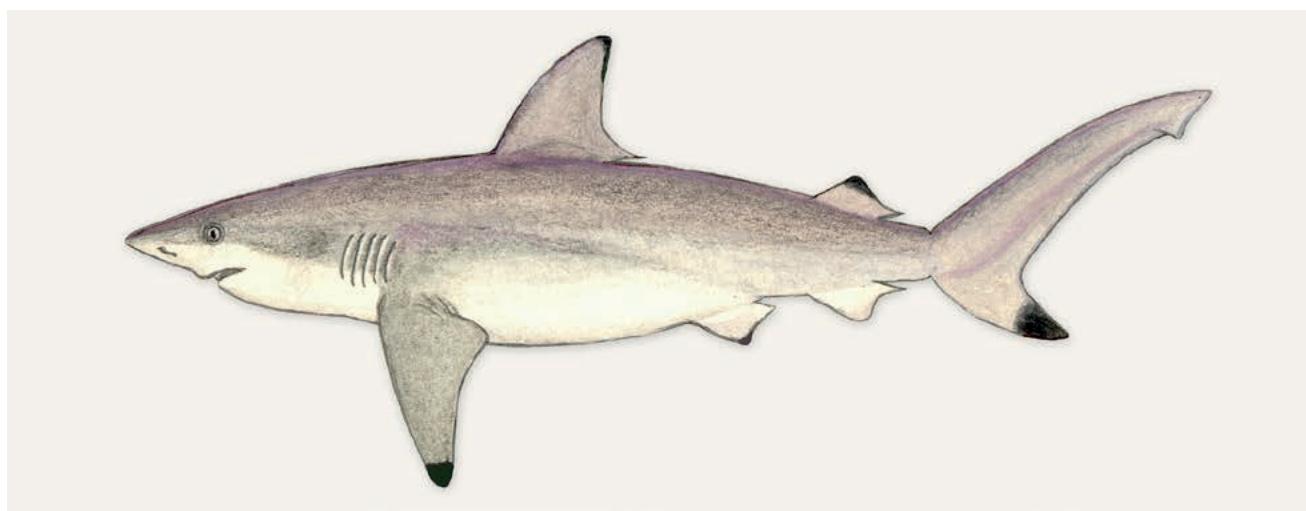
Carcharhinus humani, Human's whaler shark, 91 cm TL (South Africa).

Family **CARCHARHINIDAE**, Requiem sharks

Carcharhinus leucas, bull shark, 2.4 m TL, mature male (Australia).



Carcharhinus leucas, bull shark, 155 cm TL (Mozambique).



Carcharhinus limbatus, blacktip shark, 70 cm TL (South Africa).

Source: CSIRO

O Alvhem © IIMR

Family CARCHARHINIDAE, Requiem sharks



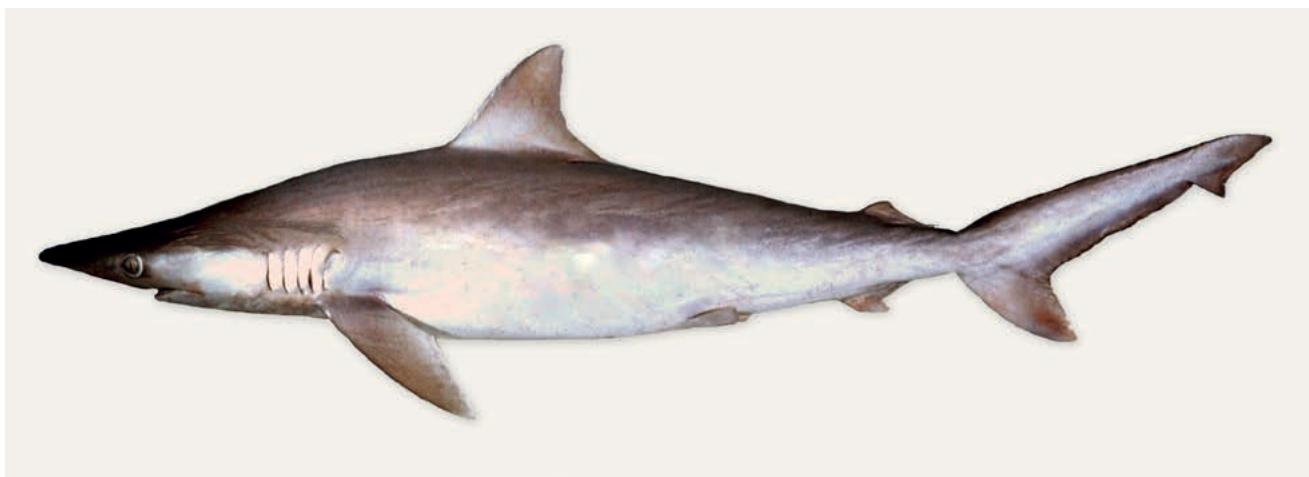
© Y Kratochvil

Carcharhinus limbatus, blacktip shark, with *Echeneis naucrates*, shark remoras (South Africa).



© P Lousky

Carcharhinus longimanus, oceanic whitetip shark (Red Sea).



PC Heemstra © NMF-SAIAB

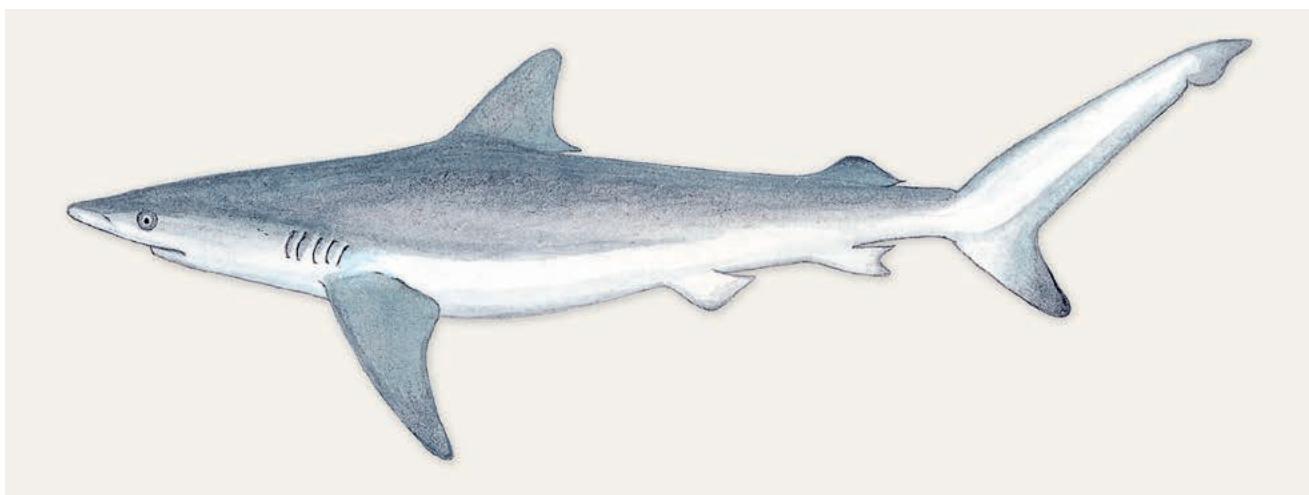
Carcharhinus maculot, hardnose shark, 79 cm TL, female (Kenya).

Family CARCHARHINIDAE, Requiem sharks



Carcharhinus melanopterus, blacktip reef shark (Hawaii).

© JE Randall, Bishop Museum



Carcharhinus obscurus, dusky shark, ~2 m TL, juvenile (South Africa).

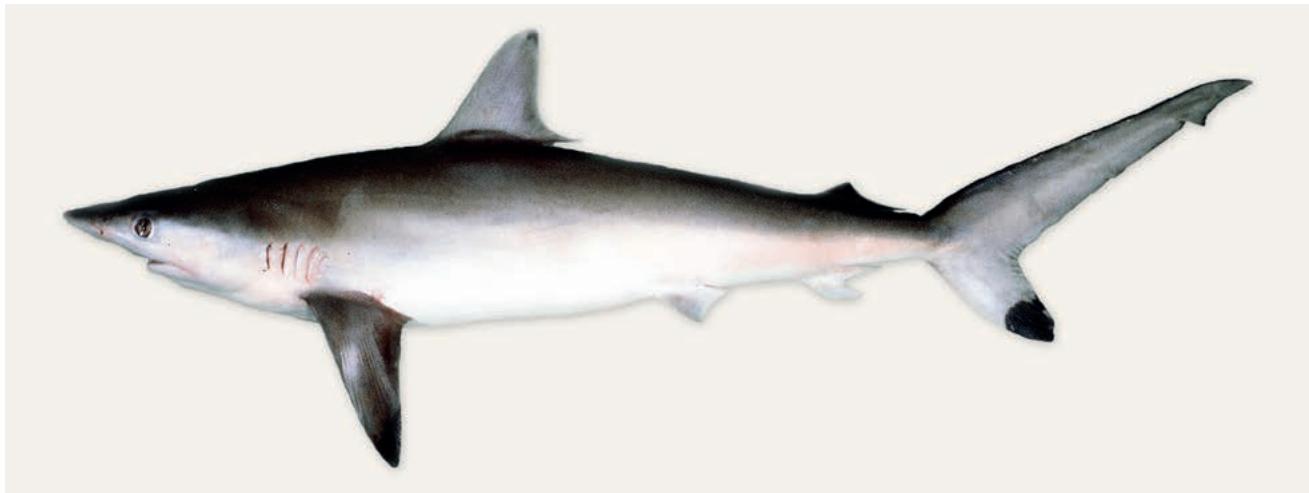
Source: CFSA



Carcharhinus plumbeus, sandbar shark (Hawaii).

© JE Randall, Bishop Museum

Family CARCHARHINIDAE, Requiem sharks



Carcharhinus sorrah, spottail shark, 108 cm TL (Bahrain).

© J.F. Randall, Bishop Museum



Loxodon macrorhinus, sliteye shark, 90 cm TL (Mozambique).

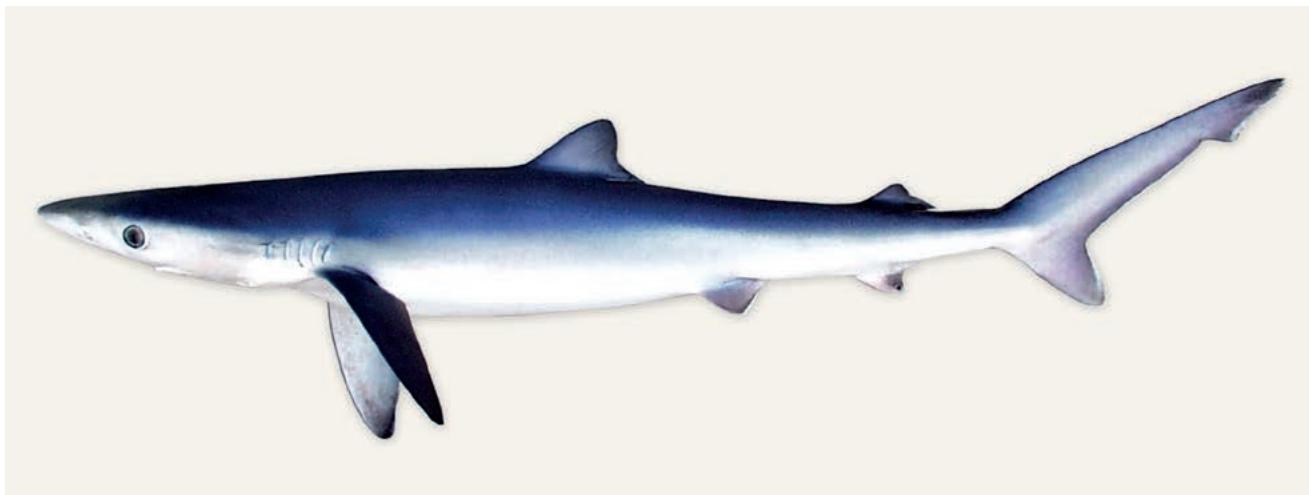
O. Alvinheim © IMR



Negaprion acutidens, sharptooth lemon shark, 178 cm TL, male (Fanning Is.).

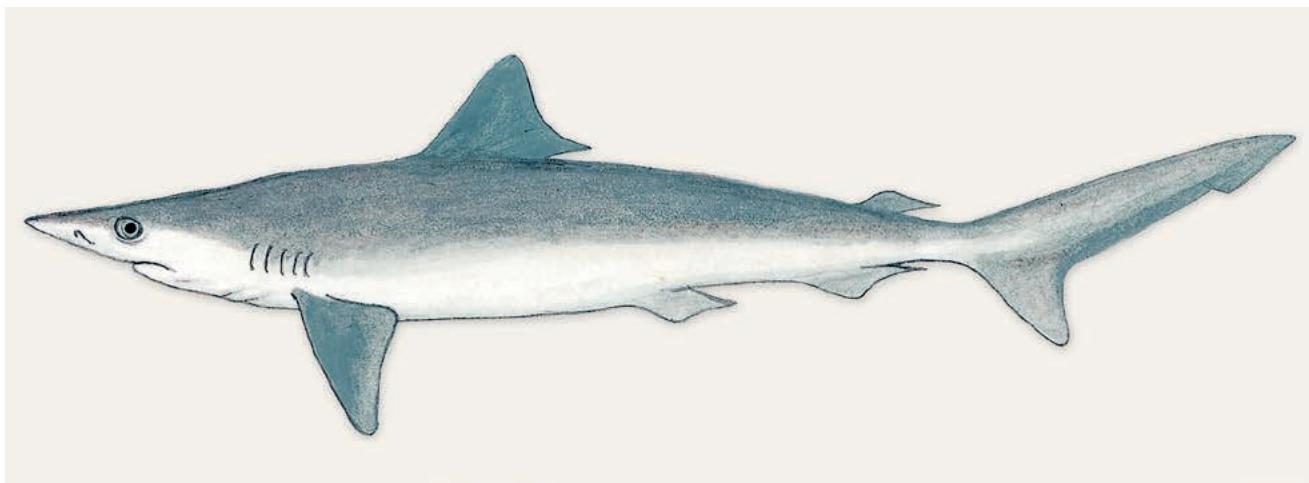
© J.F. Randall, Bishop Museum

Family CARCHARHINIDAE, Requiem sharks



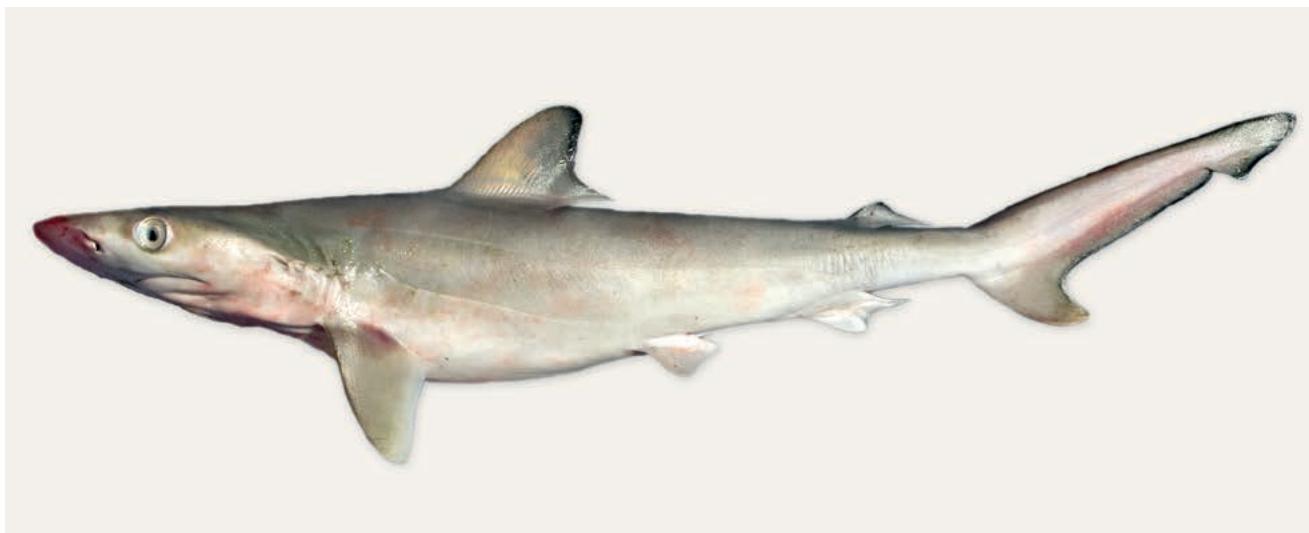
O Alvheim © IMR

Prionace glauca, blue shark, 68 cm TL (Namibia).



Source: CFSA

Rhizoprionodon acutus, milk shark, 67 cm TL, female (Persian/Arabian Gulf).



© SV Bogorodsky

Rhizoprionodon acutus, milk shark, 33 cm TL, male (Red Sea).

Family CARCHARHINIDAE, Requiem sharks



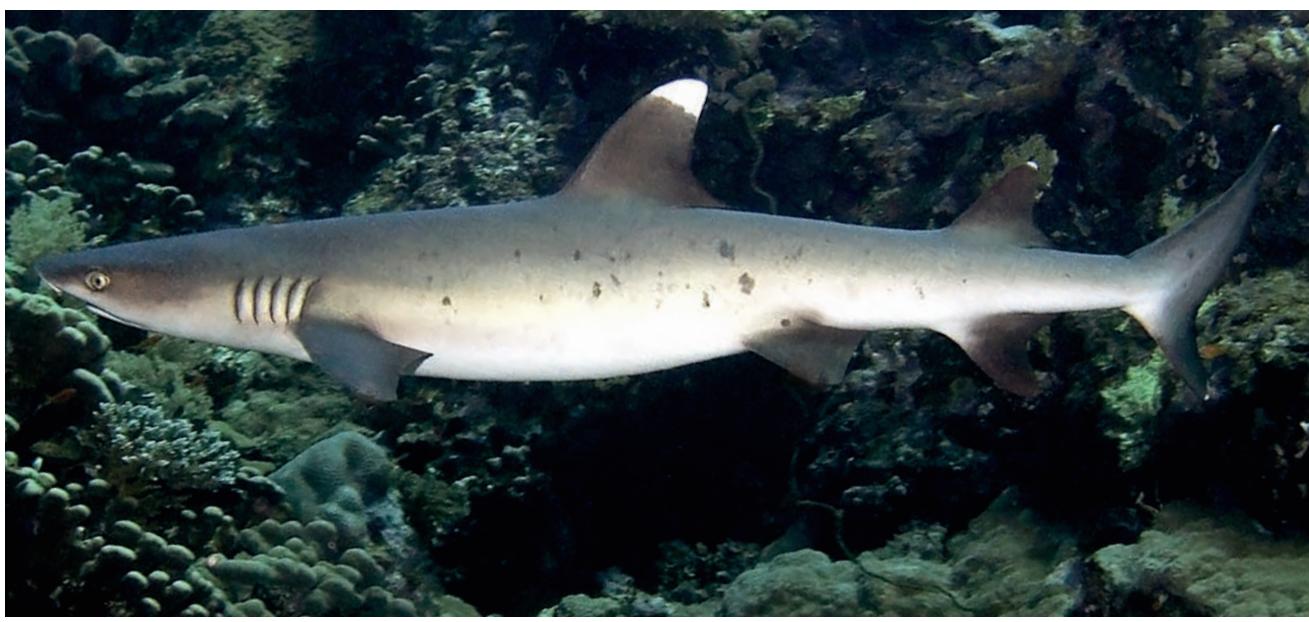
Rhizoprionodon oligolinx, grey sharpnose shark, 48 cm TL (Oman).

© JE Randall, Bishop Museum



Scoliodon laticaudus, spadenose shark, 58 cm TL (SW India).

© JE Randall, Bishop Museum



© SV Bogorodsky

Triaenodon obesus, whitetip reef shark (Red Sea).

Family **GALEOCERDONIDAE**, Tiger shark

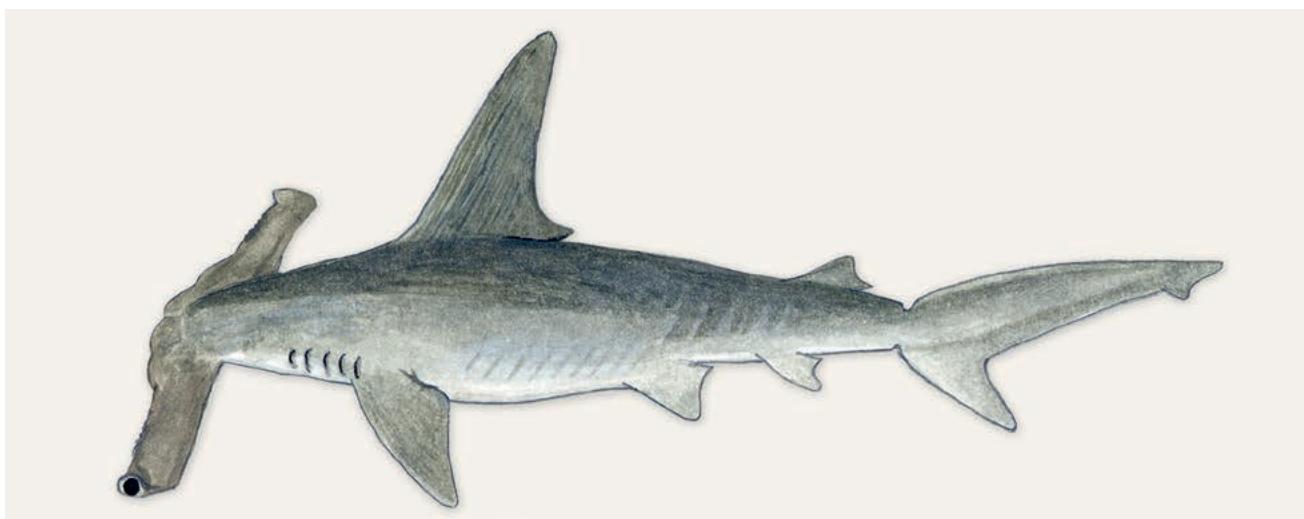
Source: CFSA

Galeocerdo cuvier, tiger shark, 82 cm TL, juvenile (South Africa); 3 m TL, mature female (Marshall Is.).

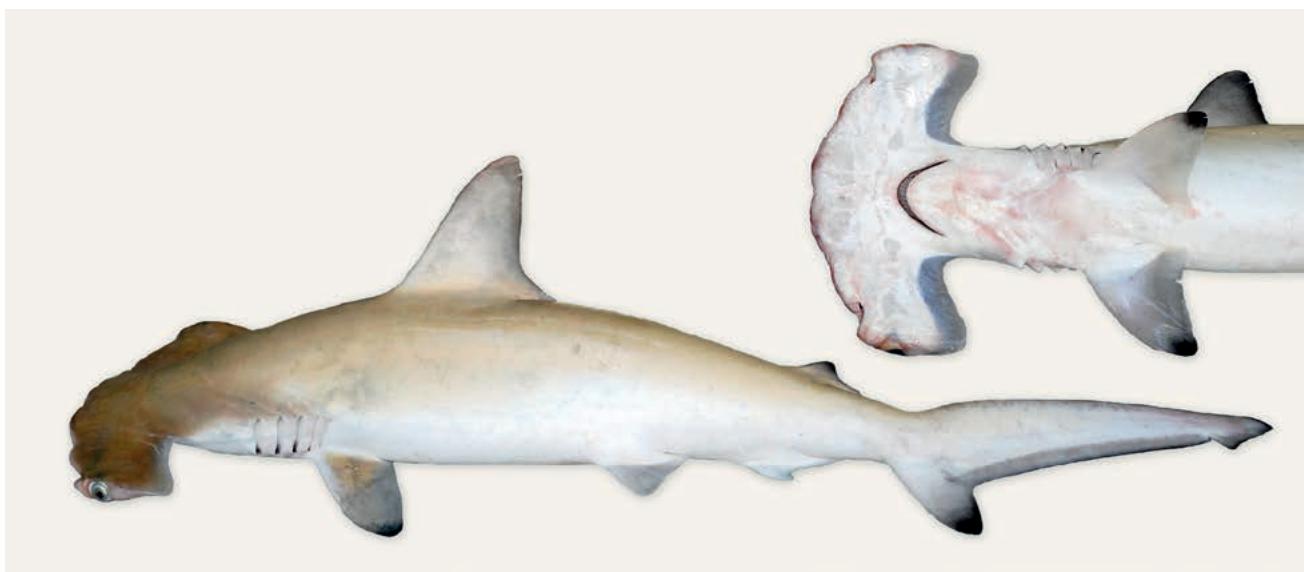


Galeocerdo cuvier, tiger shark (South Africa).

© DR King

Family **SPHYRNIDAE**, Hammerhead sharks

Eusphyra blochii, winghead shark, 180 cm TL (N Australia).

Family **SPHYRNIDAE**, Hammerhead sharks

© Avhjem © IMR

Sphyrna lewini, scalloped hammerhead, 71 cm TL (Seychelles).



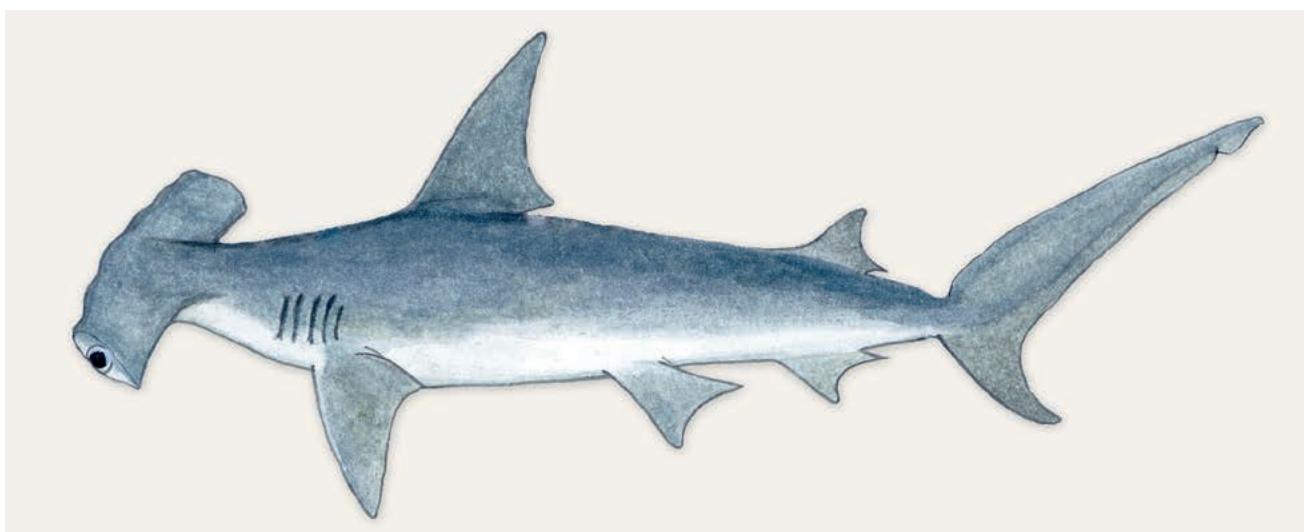
© JE Randall, Bishop Museum

Sphyrna lewini, scalloped hammerhead, aquarium (Hawaii).

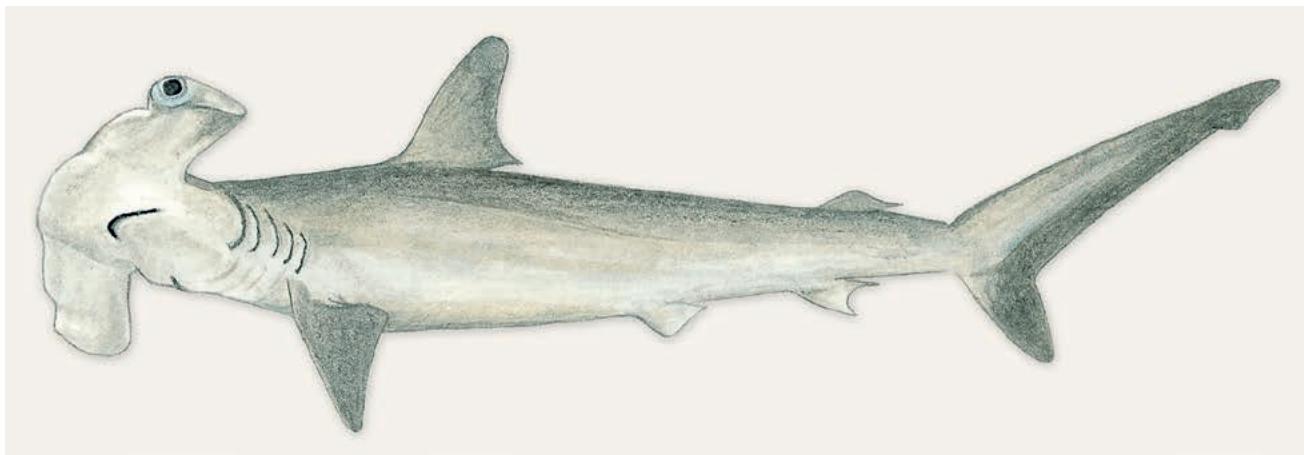


© A Kok, CC BY-SA 4.0

Sphyrna mokarran, great hammerhead (Bahamas).



Sphyrna mokarran, great hammerhead, 240 cm TL (Japan).

Family **SPHYRNIDAE**, Hammerhead sharks

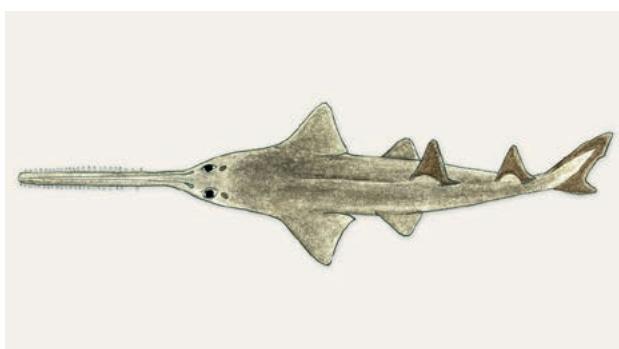
Sphyrna zygaena, smooth hammerhead, ~70 cm TL, immature female (South Africa).

Source: CFSA

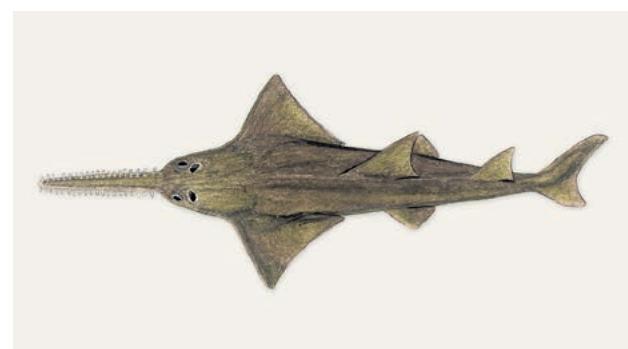


Sphyrna zygaena, smooth hammerhead (Mexico, E Pacific).

© A Murch

Family **PRISTIDAE**, Sawfishes

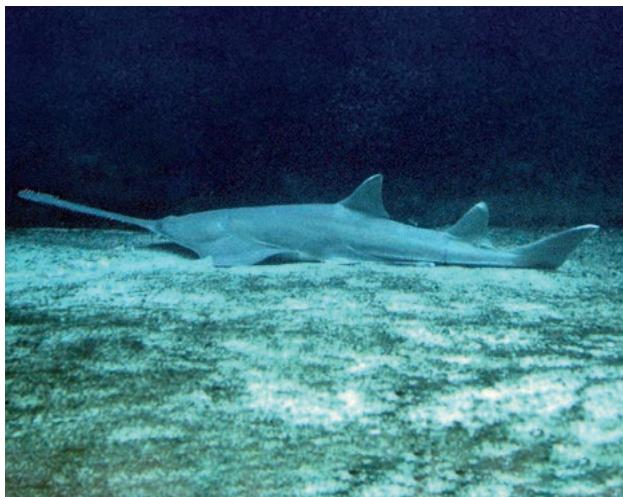
Anoxypristis cuspidata, narrow sawfish, ~80 cm TL (WIO).



Pristis pristis, largetooth sawfish, 3.6 m TL (South Africa).

Source: CFSA

Family PRISTIDAE, Sawfishes



Pristis zijsron, green sawfish, adult male (South Africa).

PC Heemstra © NRE-SAAB



Pristis zijsron, green sawfish, 3.9 m TL, adult female (South Africa).

© DR King



Pristis zijsron, green sawfish, 91 cm TL, dorsal view (Bahrain).

© JE Randall, Bishop Museum

Family TORPEDINIDAE, Torpedo rays



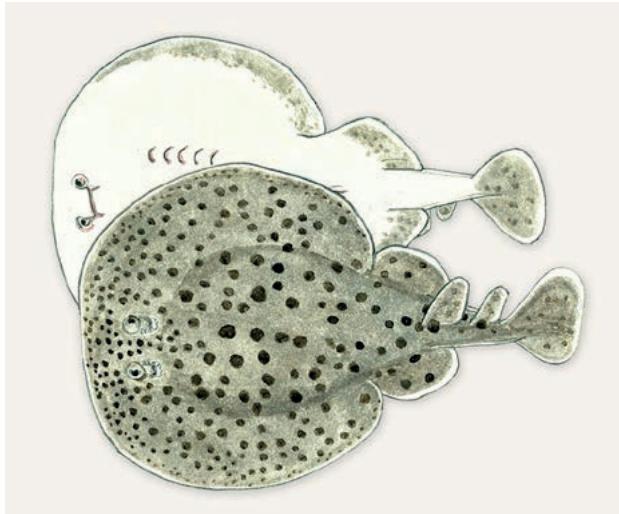
Tetronarce cowleyi, Cowley's torpedo ray, 36 cm TL (Namibia).

O Albrecht © IMR



Tetronarce sp., 32 cm DW (S Mozambique). #

PC Heemstra © NRE-SAAB

Family **TORPEDINIDAE**, Torpedo rays

Torpedo fuscomaculata, blackspotted torpedo, 7 cm DW, 10 cm TL (South Africa).



Torpedo fuscomaculata, blackspotted torpedo, 28 cm TL (South Africa).

PC Heemstra © NRF-SAIAB



Torpedo panthera, leopard torpedo, 16 cm TL (Oman).

© JE Randall, Bishop Museum



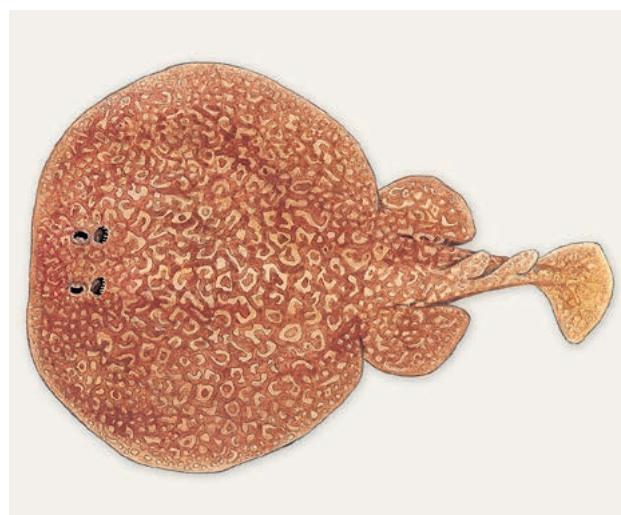
Torpedo panthera, leopard torpedo (Red Sea).

© SV Bogorodsky



Torpedo sinuspersici, marbled torpedo, 12 cm DW (SW India).

KV Akhilesh © CMFR



Torpedo sinuspersici, marbled torpedo, 19 cm DW (S Mozambique).

Source: CFSA

Family **TORPEDINIDAE**, Torpedo rays*Torpedo* sp., 37 cm TL (Comoros). #

PC Heemstra © NRE-SAVAB

*Torpedo* sp. (Mozambique). #

© M Fraser

*Torpedo suessii*, Red Sea torpedo, 33 cm TL (Red Sea).

© JE Randall, Bishop Museum

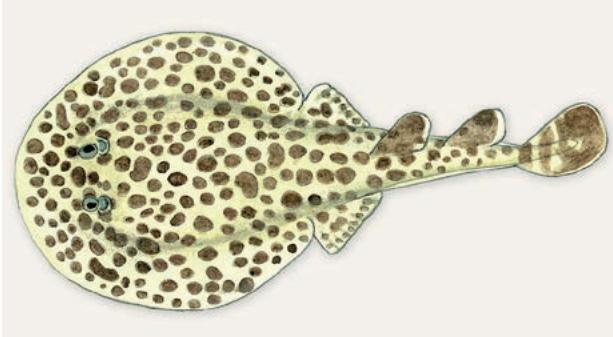
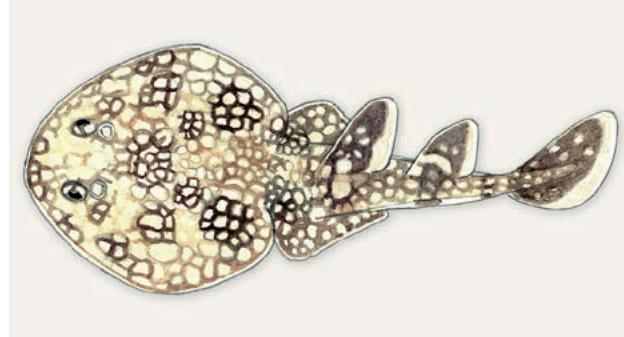
Family **NARCINIDAE**, Numbfishes*Benthobatis moresbyi*, dark blidray, 32 cm TL, 11 cm DW (SW India). #

KV Akhilesh © CMFRI

*Narcine lingula*, Chinese numbfish, ~30 cm TL (Taiwan).

P-L Lin © ASIZ

= no species account

Family **NARCIINIDAE**, Numbfishes*Narcine lingula*, Chinese numbfish (W India).*Narcine oculifera*, big-eye numbfish, 24 cm TL (Oman).*Narcine rierai*, Mozambique numbfish, 11 cm DW (S Mozambique).

© Alyshein © IMR

*Narcine timlei*, brown numbfish, 7 cm DW, 15 cm TL (India).

© P Devarapalli, MSNDC

Family **NARKIDAE**, Sleeper rays*Electrolux addisoni*, ornate sleeper ray (South Africa).

© AS Pearson

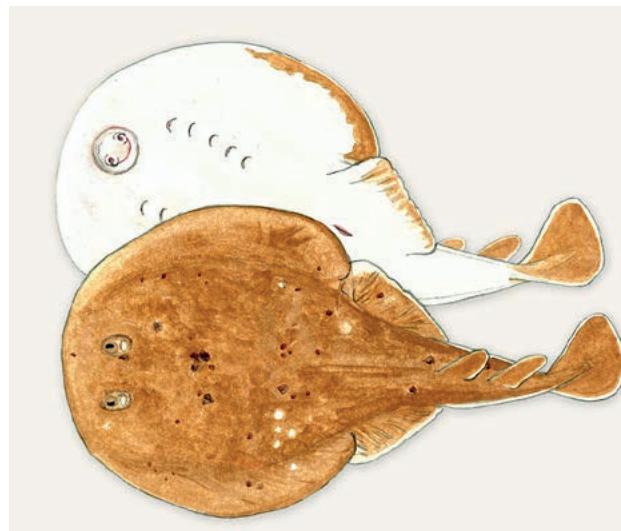
*Electrolux addisoni*, ornate sleeper ray (South Africa).

© V Fraser

Family NARKIDAE, Sleeper rays



Heteronarce bentuviae, Eilat electric ray, 18 cm TL, male (Gulf of Aqaba).



Heteronarce garmani, Natal electric ray, 27 cm TL, 16 cm DW, female (Mozambique).



Narke capensis, Cape sleeper ray, 16 cm TL (South Africa).

O Alvhelm © IMR



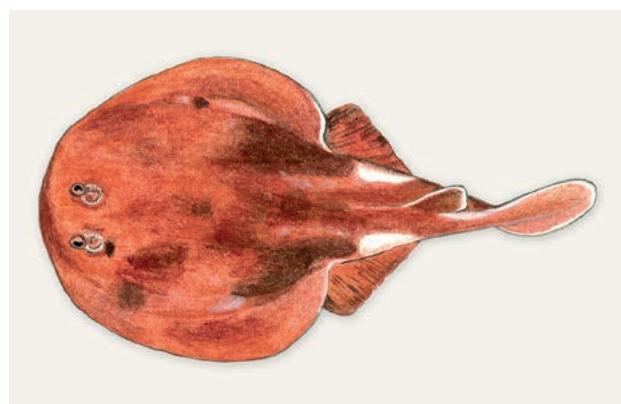
Narke capensis, Cape sleeper ray, 22 cm TL, 13 cm DW (South Africa).

PC Heemstra © NBF-SALAB



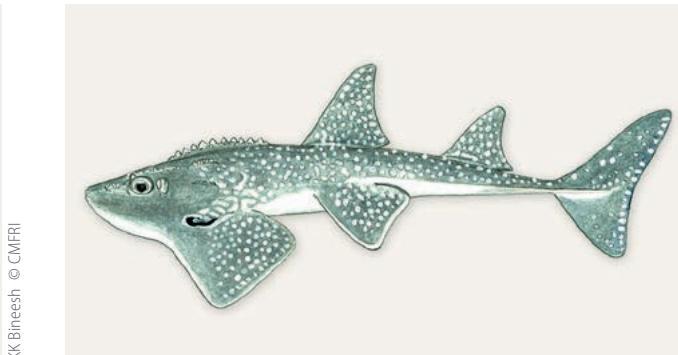
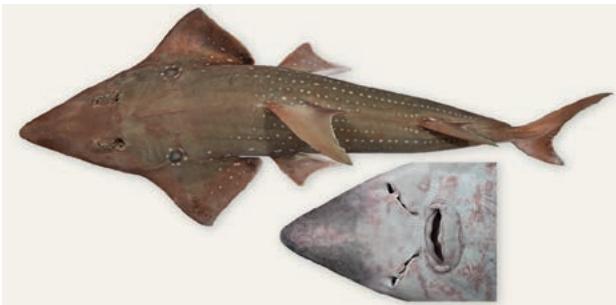
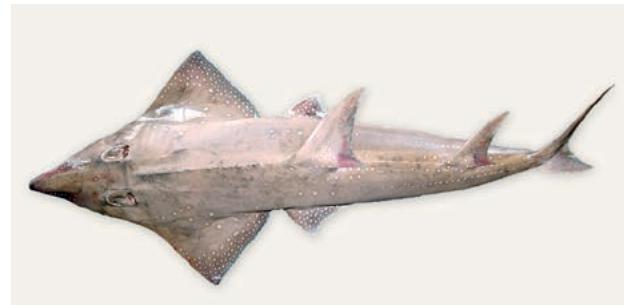
Narke dipterygia, spottail sleeper ray, 14 cm TL, 6 cm DW (India).

© P Devapalli, M S NDC

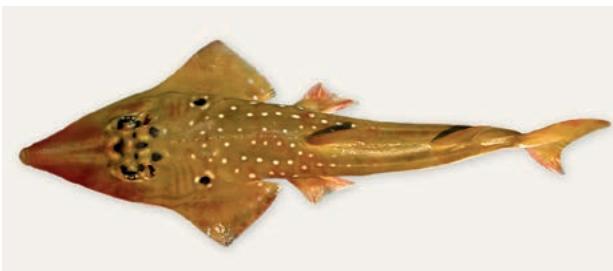


Narke dipterygia, spottail sleeper ray, 21 cm TL (Oman).

Family RHINIDAE, Shark ray, wedgefishes

*Rhina ancylostomus*, shark ray (SW India).*Rhina ancylostomus*, shark ray, 100+ cm TL, adult (South Africa).*Rhynchobatus australiae*, bottlenose wedgefish, 115 cm TL (Qatar).*Rhynchobatus cf. australiae*, ~90 cm TL (SW India). #

KV Akhilesh © CMFRI



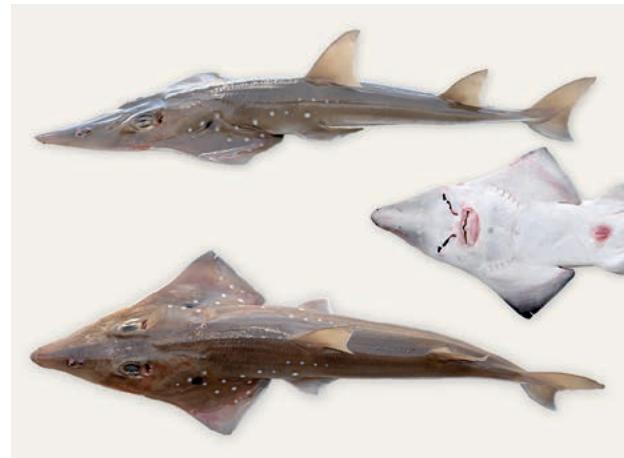
© SV Bogorodsky

Rhynchobatus djiddensis, whitespotted wedgefish, 46 cm TL (Red Sea).*Rhynchobatus djiddensis*, whitespotted wedgefish, ~150 cm TL (South Africa).

© DA Polack



AD Connell © NPF-SAVAB

Rhynchobatus djiddensis, whitespotted wedgefish, 50 cm TL (South Africa).

O Alvhem © IMR

Rhynchobatus laevis, smoothnose wedgefish, 69 cm TL (Mozambique).

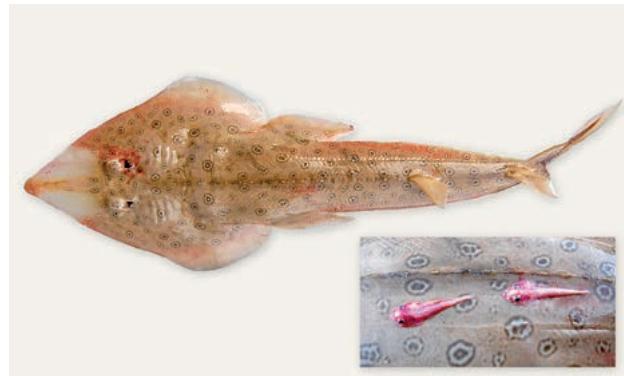
= no species account

Family RHINOBATIDAE, Guitarfishes



Acroteriobatus andysabini, Malagasy blue-spotted guitarfish, ~57 cm SL, juvenile male, holotype (Madagascar). #

© E Heemstra © NRF-SAAMBR



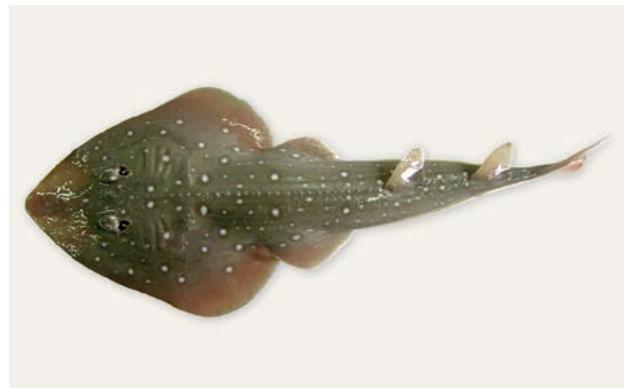
Acroteriobatus annulatus, lesser guitarfish, 130 cm TL, and 4-cm-TL embryos, typical form (South Africa).

© Q Rohani, RU-DIFS



Acroteriobatus annulatus, lesser guitarfish, ~90 cm TL, KwaZulu-Natal form (South Africa).

© B Mann, ORI/SAA-MBR



Acroteriobatus blochii, bluntnose guitarfish, 27 cm SL, 30 cm TL, juvenile (Namibia).

© H van der Bank, UJ



Acroteriobatus leucospilus, greyspotted guitarfish (South Africa).

© DR King

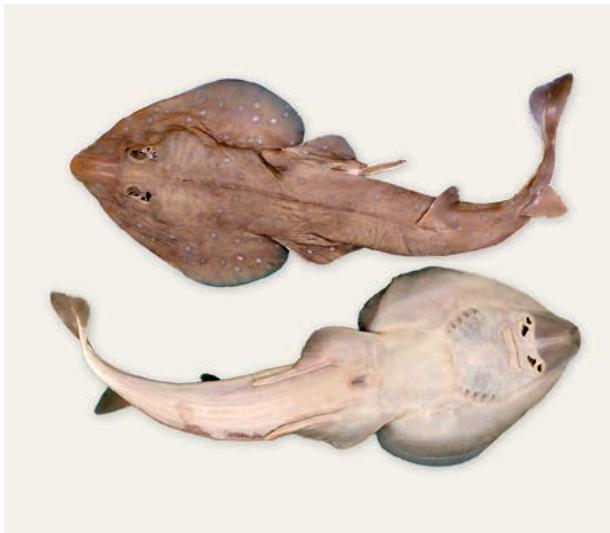


Acroteriobatus ocellatus, maculate guitarfish (South Africa).

© R Palmer © NRF-SAALB

= no species account

Family RHINOBATIDAE, Guitarfishes



Acroteriobatus salalah, Salalah guitarfish, 63 cm TL (Pakistan).

© PN Promadakis, FAO



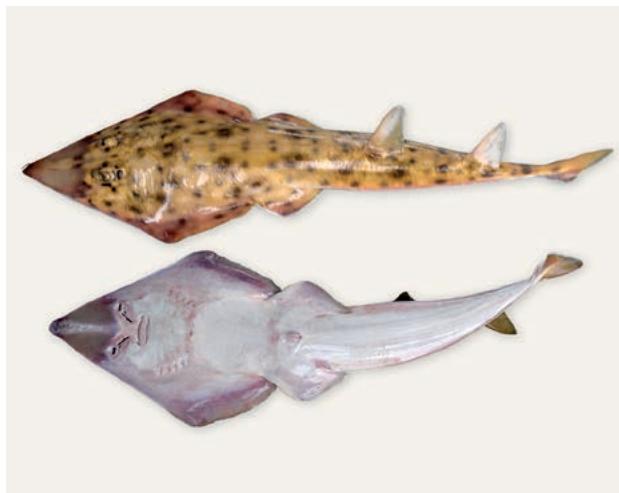
Acroteriobatus stehmanni, Socotra blue-spotted guitarfish, 59 cm TL, adult female, paratype (Socotra). #

© MFW Stehmann, Ichthys Lab, Hamburg



Acroteriobatus variegatus, stripenose guitarfish, 58 cm TL (SW India).

© J.E. Randall, Bishop Museum



Rhinobatos austini, Austin's guitarfish, 111 cm TL (S Mozambique).

O Aarheim © IMR



Rhinobatos holcorhynchus, slender guitarfish, 42 cm TL (South Africa).

© ST Fennessy, ORU/SAAMBR



Rhinobatos nudidorsalis, bareback shovelnose ray, 50 cm TL (Saya de Malha Bank).

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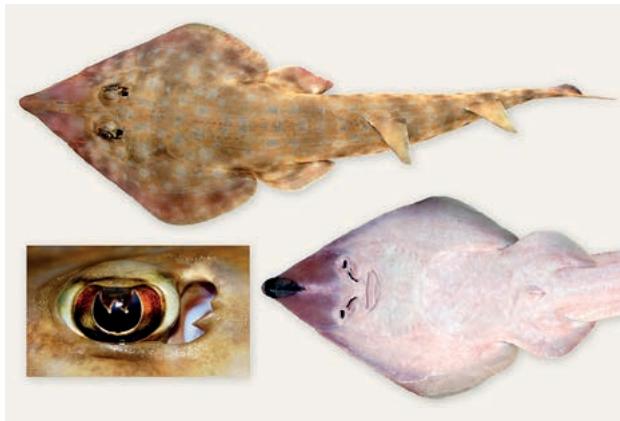
= no species account

Family RHINOBATIDAE, Guitarfishes



Rhinobatos punctifer, spotted guitarfish, 65 cm TL (Gulf of Aqaba).

© JE Randall, Bishop Museum



Rhinobatos sp., 89 cm TL (N Mozambique). #

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Family GLAUCOSTEGIDAE, Giant guitarfishes



Glaucostegus cemiculus, blackchin guitarfish.

© B Séret



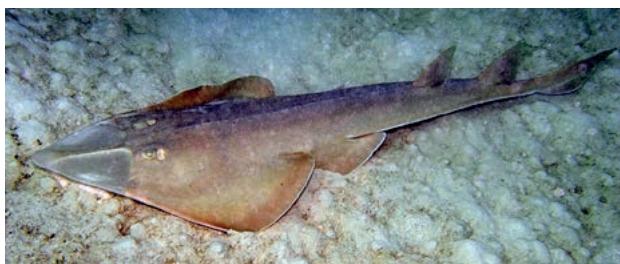
Glaucostegus granulatus, sharpnose guitarfish, 39 cm TL (Kuwait).

© JE Randall, Bishop Museum



Glaucostegus halavi, Halavi guitarfish (Red Sea).

© SV Bogorodsky



Glaucostegus halavi, Halavi guitarfish, 84 cm TL (Red Sea).

© JE Randall, Bishop Museum



KV Akhilesh © CMFRI

Glaucostegus obtusus, widenose guitarfish, 69 cm TL (SW India).



© JE Randall, Bishop Museum

Glaucostegus thouin, clubnose guitarfish, 39 cm TL (Indonesia).

= no species account

Family **GLAUCOSTEGIDAE**, Giant guitarfishes

© T Krajangdara & M Sumontha, AFDEC

Glaucostegus typus, giant shovelnose ray (Thailand).Family **RAJIDAE**, Hardnose skates

AD Connell © NRF-SAIAB

Dipturus campbelli, blackspot skate, 40 cm TL, 32 cm DW (South Africa).

O Alvheim © IMR

Dipturus doutei, javelin skate, 42 cm DW (Namibia).

Family RAJIDAE, Hardnose skates



KV Arkhilev © CMFRI



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Dipturus johannisdavisi, Travancore skate, 25 cm TL, 18 cm DW (SW India).

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© P Bouchet, MNHN

Dipturus pullopunctatus, slime skate, 45 cm TL, juvenile (South Africa).

AD Connell © NRF-SAIAB

Dipturus springeri, roughbelly skate, 27 cm TL, ~21 cm DW, neonate (South Africa).

Family RAJIDAE, Hardnose skates

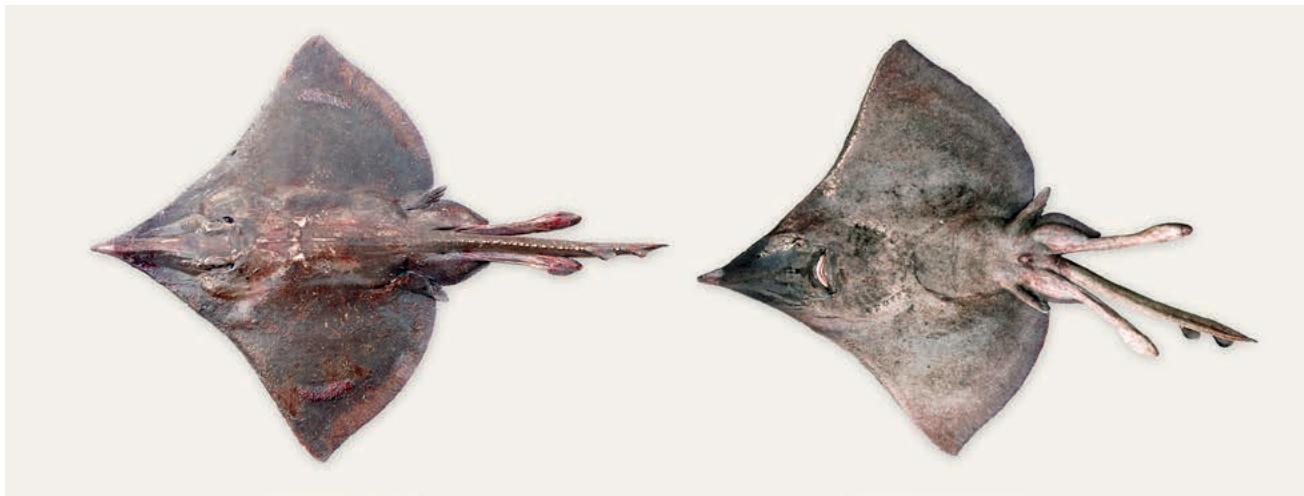


Dipturus springeri, roughbelly skate, juvenile (South Africa).



Leucoraja elaineae, 33 cm TL, female holotype (Kenya). #

PC Heemstra © NRF-SAAAB



Dipturus stenorhynchus, prawnose skate, 105 cm TL (Mozambique).

O Alvheim © IMR



Leucoraja compagnoi, tigertail skate (South Africa).

© DA Ebert, MML

= no species account

Family RAJIDAE, Hardnose skates



Leucoraja wallacei, yellowspotted skate, 41 cm DW (South Africa).

PC Heemstra © NRE-SAWAB



Leucoraja wallacei, yellowspotted skate, male (South Africa).

© RW/leslie



Neoraja stehmanni, South African pygmy skate, 30 cm TL, 18 cm DW (South Africa).

O Alvhheim © IIMR



Okamejei heemstrai, East African skate, 22 cm DW, eye detail inset (Mozambique).

O Alvhheim © IIMR

Family RAJIDAE, Hardnose skates

*Neoraja stehmanni*, South African pygmy skate, 35 cm TL (South Africa).

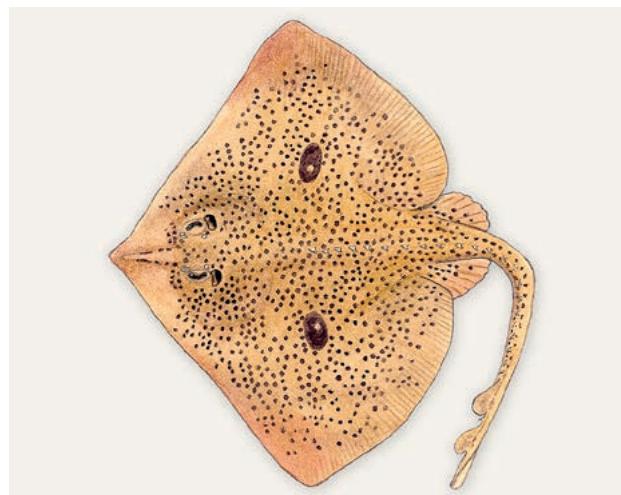
© DA Ebert, MML

*Orbiraja powelli*, Indian ring skate, 39 cm TL, 23 cm DW (SW India).

KK Bineesh © CMFRI

*Raja ocellifera*, twineye skate, 43 cm TL (South Africa).

O Alyshein © IMR

*Raja straeleni*, biscuit skate, 45 cm DW, female (South Africa).

Source: CFA

*Raja straeleni*, biscuit skate, 53 cm DW (South Africa).

© C Caine

*Raja straeleni*, biscuit skate, 53 cm DW, ventral view (South Africa).

© C Caine

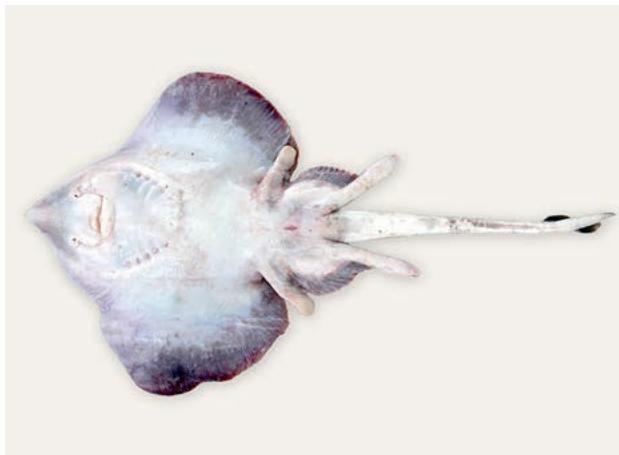
Family RAJIDAE, Hardnose skates

*Rajella barnardi*, bigthorn skate (South Africa).

ME Anderson © NRF-SAJAB

*Rajella caudaspinosa*, munchkin skate (South Africa).

ME Anderson © NRF-SAJAB

*Rajella dissimilis*, ghost skate, 35 cm DW, male, ventral view (South Africa). #

AD Connell © NRF-SAJAB

*Rajella dissimilis*, ghost skate, 35 cm DW, dorsal view (South Africa). #

O Alvheim © IMR

*Rajella leopardus*, leopard skate, 46 cm DW (South Africa).

O Alvheim © IMR

*Rajella ravidula*, smoothback skate with egg cases, 79 cm TL (South Africa). #

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= no species account

Family **RAJIDAE**, Hardnose skates

Rostroraja alba, white skate, 25 cm DW, juvenile (Mozambique).

O Alhheim © IMR



Rostroraja alba, white skate, 28 cm DW, dorsal view (South Africa).

PC Heemstra © NPF-SAIAB



Rostroraja alba, white skate, 28 cm DW, ventral view (South Africa).

PC Heemstra © NPF-SAIAB

Family **ARHYNCHOBATIDAE**, Softnose skates

Bathyraja smithii, softnose skate, 98 cm TL (Namibia).

O Alhheim © IMR

Family **ANACANTHOBATIDAE**, Legskates

Anacanthobatis marmorata, spotted legskate, 17 cm DW (Mozambique).

PC Heemstra © NRF-SAAIB

Family **GURGESELLIDAE**, Pygmy skates

PC Heemstra © NRF-SAAIB

Cruriraja parcomaculata, triangular legskate, 17 cm, 7 cm and 4 cm DW (S Mozambique).



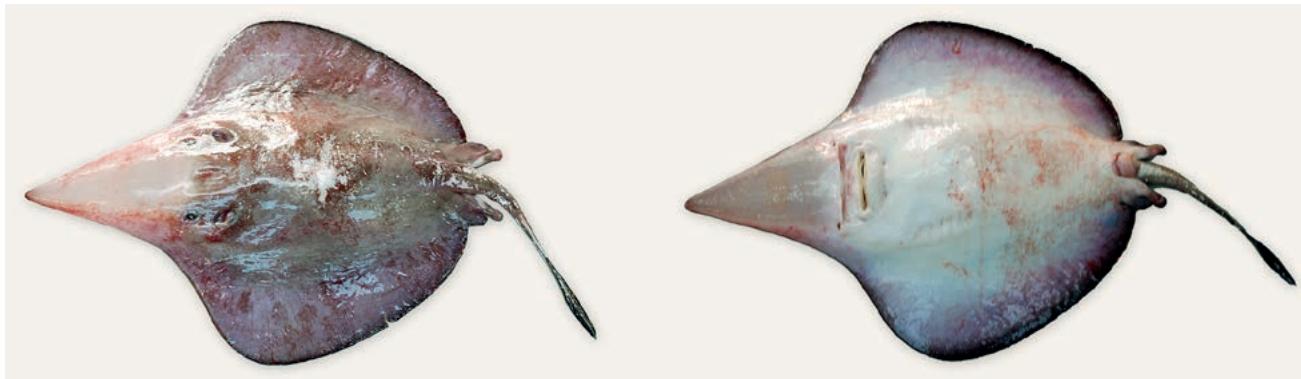
Cruriraja hulleyi, roughnose legskate, 23 cm DW (South Africa).

O Albrecht © IMR



Indobatis ori, black legskate, 22 cm TL, juvenile male (S Mozambique). #

© S Weigmann, ZMH

Family **HEXATRYGONIDAE**, Sixgill stingray*Hexatrygon bickelli*, sixgill stingray, 68 cm DW, juvenile male (S Mozambique).

O Alvheim © IMR

Family **PLESIOBATIDAE**, Deepwater stingray*Plesiotrachis daviesi*, deepwater stingray, 43 cm DW (S Mozambique).

O Alvheim © IMR

Family **DASYATIDAE**, Stingrays

© CCaine

Bathyraja brevicaudata, short-tail stingray, 24 cm DW (South Africa).

PC Heemstra © NRF-SAIAB

Bathyraja lata, thorn-tail stingray, 42 cm DW (South Africa).

Family DASYATIDAE, Stingrays



Brevitrygon imbricata, Bengal whipray, 37 cm TL, 18 cm DW, female (Thailand).

© T.Krajangdara, AFDEC



Brevitrygon walga, scaly whipray, 35 cm TL (Kuwait).

© JE Randall, Bishop Museum



Dasyatis chrysonota, blue marbled stingray, 51 cm TL, 29 cm DW (South Africa).

© PC Heemstra © NRI-SAAB



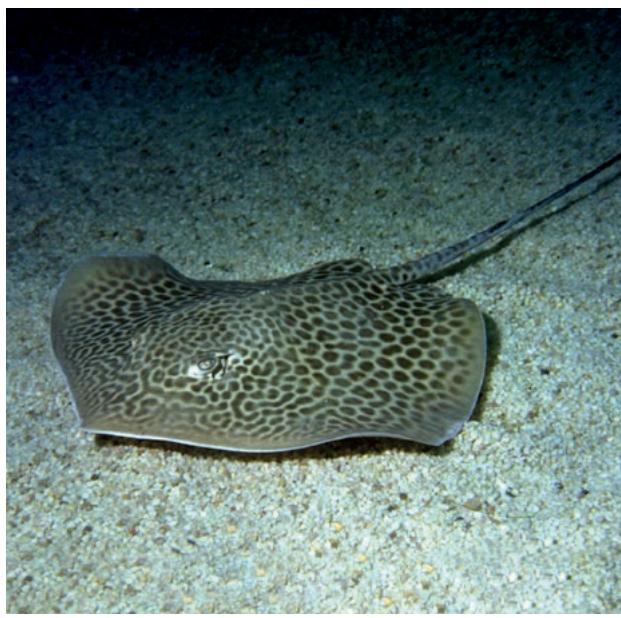
Dasyatis chrysonota, blue marbled stingray (South Africa).

© JE Randall, Bishop Museum



Himantura leoparda, leopard whipray, 99 cm DW (Mozambique).

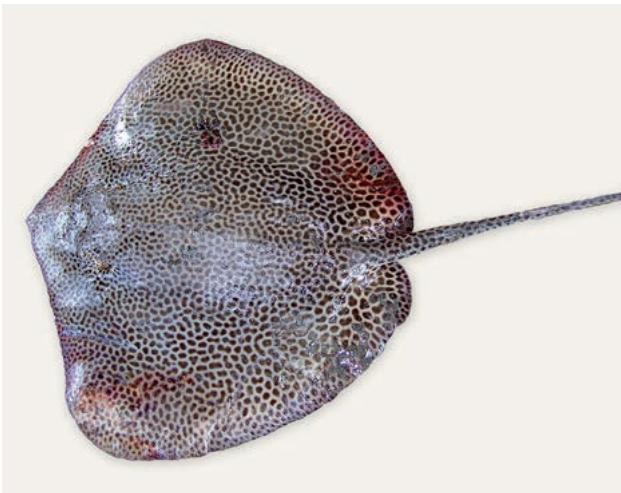
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Himantura uarnak, reticulate whipray (South Africa).

© DR King

Family DASYATIDAE, Stingrays



Himantura undulata, honeycomb whipray (Tanzania).



Maculabatis ambigua, Baraka's whipray, 28 cm DW (Mozambique).



Maculabatis ambigua, Baraka's whipray, 49 cm DW, immature male holotype (Red Sea).



Maculabatis ambigua, Baraka's whipray, 49 cm DW, immature male holotype (Red Sea).



Maculabatis arabica, Pakistan whipray, 33 cm DW, juvenile female holotype (Pakistan).



Maculabatis bineeshi, short-tail whipray, 98 cm TL, 33 cm DW (Bahrain).

Family DASYATIDAE, Stingrays



Maculabatis gerrardi, whitespotted whipray, 62 cm TL, 23 cm DW (SW India).

© KV Akhilash © CMFR



Maculabatis randalli, Arabian banded whipray, 76 cm TL, 24 cm DW (Kuwait).

© JE Randall, Bishop Museum



Megatrygon microps, small-eye stingray (S Mozambique).

© AD Marshall



Neotrygon caeruleopunctata, blue-spotted maskray, 55 cm TL (India).

© JE Randall, Bishop Museum



Neotrygon caeruleopunctata, blue-spotted maskray (South Africa).

© JJ Deebley



Pastinachus ater, broad cowtail ray (Red Sea).

© SY Bogorodsky

Family DASYATIDAE, Stingrays



Pastinachus sephen, cowtail stingray, 24 cm DW (Kuwait).

© J.E. Randall, Bishop Museum



Pateobatis bleekeri, Bleeker's whipray, 77 cm DW, female, 2 larger thorns in midback denticle band inset (Thailand).

© T.Krajjangdara, AFDEC



Pateobatis fai, pink whipray (South Africa).

© B.Mann, OR/SAA/MBR



Pateobatis jenkinsii, Jenkins whipray (S Mozambique).

© DR King



Pteroplatytrygon violacea, pelagic stingray, 54 cm DW, female (South Africa).

PC Heemstra © NFR-SALAB

Family DASYATIDAE, Stingrays



© JE Randall, Bishop Museum

Taeniura lymma, blue-spotted ribbontail ray, 52 cm TL, 22 cm DW (Kuwait).



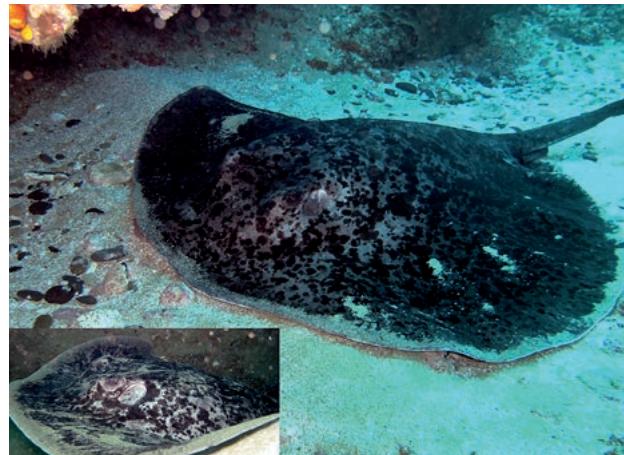
© SV Bogorodsky

Taeniura lymma, blue-spotted ribbontail ray (Red Sea).



© DA Pollock

Taeniura lymma, blue-spotted ribbontail ray (South Africa).



© J Dench

Taeniurus meyeni, blotched fantail ray (South Africa).



© M Manjaji-Matsunoto, BMNH UMS

Telatrygon biasa, Indonesian sharpnose ray, 19 cm DW (Malaysia). #

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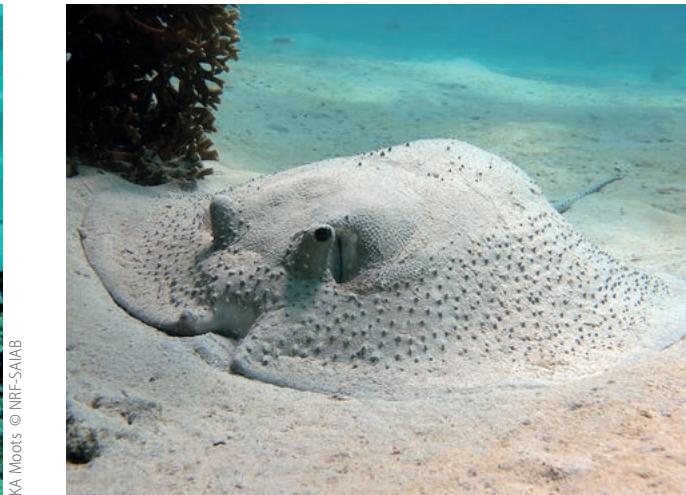
© Khin May Chit Maung

Telatrygon crozieri, Indian sharpnose ray, 70 cm TL, 23 cm DW (Myanmar).

Family DASYATIDAE, Stingrays



Urogymnus asperrimus, porcupine ray (Seychelles).



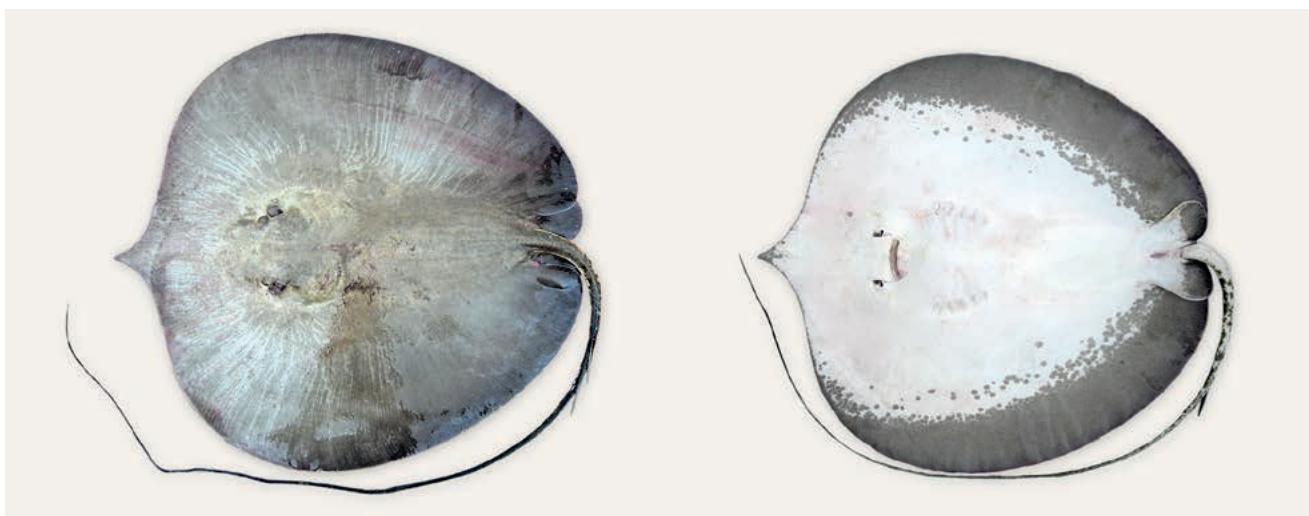
Urogymnus asperrimus, porcupine ray, disc margin damaged (Tanzania).

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Urogymnus granulatus, mangrove whipray (Maldives).

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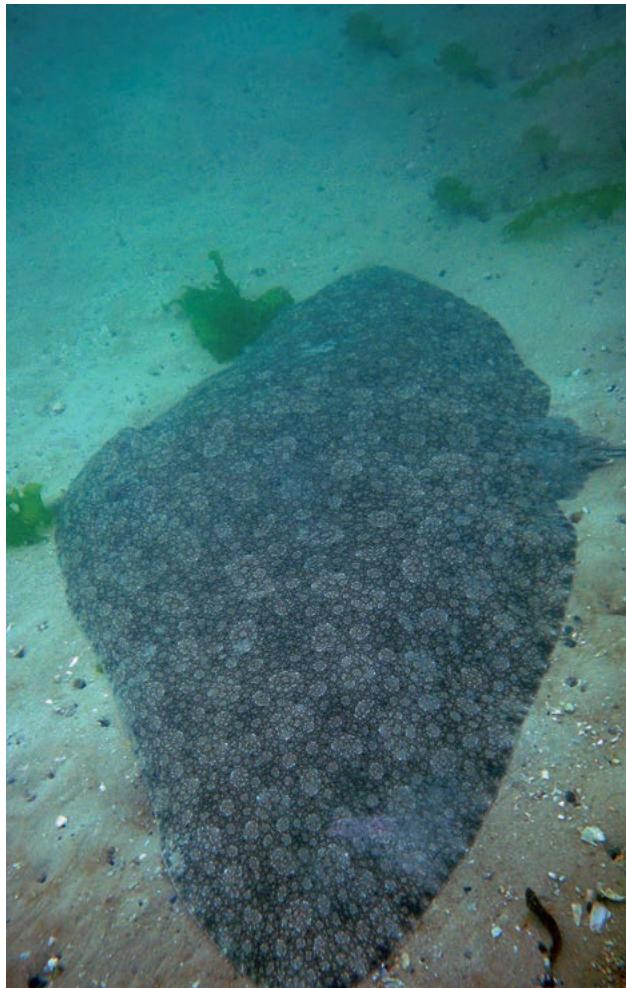
Urogymnus polylepis, giant freshwater whipray (Malaysia).

Family GYMNURIDAE, Butterfly rays



Gymnura natalensis, diamond ray, 95 cm DW (South Africa).

© S.Chester, ORV/SAAMBR



Gymnura natalensis, diamond ray (South Africa).

© C. van der Coff



Gymnura poecilura, longtail butterfly ray, 28 cm TL (Bahrain).

© J.E Randall, Bishop Museum



Gymnura poecilura, longtail butterfly ray, 75 cm TL, 89 cm DW, female, ventral view (Red Sea).

© SV Bogorodsky



Gymnura tentaculata, tentacled butterfly ray, juvenile male, 35 cm DW (Arabian Sea).

© S.Wiegmann, ZMH

Family GYMNURIDAE, Butterfly rays



Gymnura zonura, zonetail butterfly ray (Taiwan).

© K-T Shao, ASIZ

Family MYLIOBATIDAE, Eagle rays



Aetomylaeus ?maculatus, 35 cm DW, preserved specimen (Arabian Sea).

© S Weigmann / ZMH



Aetomylaeus milvus, ocellate eagle ray (Iran).

© SG Rezvani, IFRD



Aetomylaeus nichofii, banded eagle ray, 92 cm TL, 54 cm DW (Persian/Arabian Gulf).

© JF Randall, Bishop Museum

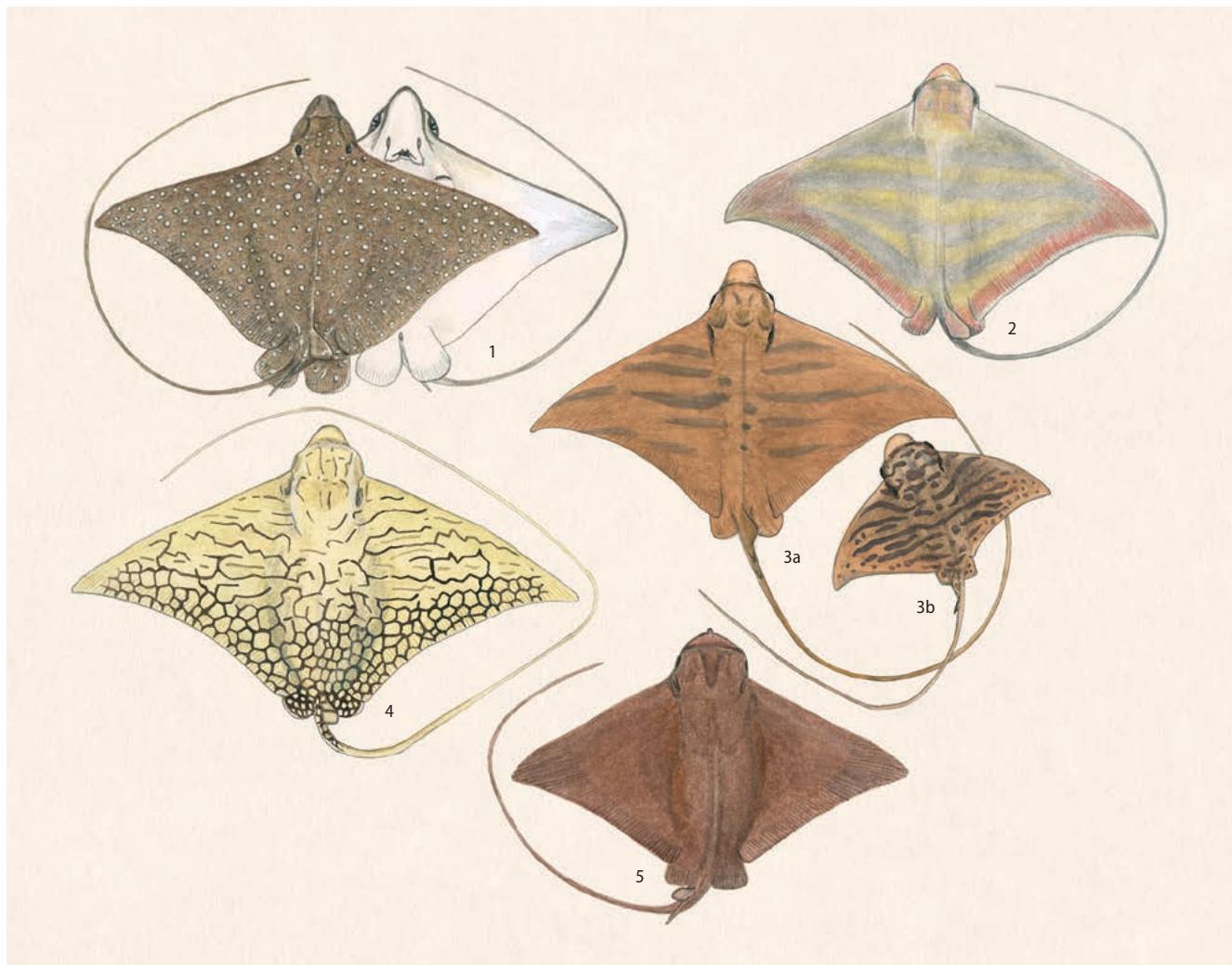


Aetomylaeus vespertilio, ornate eagle ray (SW India).

KK Bineesh © CMFRI

Family AETOBATIDAE, Pelagic eagle rays

Family MYLIOBATIDAE, Eagle rays



AETOBATIDAE: 1 *Aetobatus narinari*, spotted eagle ray, 146 cm DW (S Mozambique).

MYLIOBATIDAE: 2 *Aetomylaeus nichofii*, banded eagle ray, 54 cm DW, 92 cm TL (Persian/Arabian Gulf). 3 *Aetomylaeus bovinus*, bull ray, (a) 86 cm DW, female, (b) 22 cm DW, unborn pup (both South Africa).* 4 *Aetomylaeus* sp. (Maldives). # 5 *Myliobatis aquila*, common eagle ray, 128 cm DW (Mozambique).

Family MYLIOBATIDAE, Eagle rays



Myliobatis aquila, common eagle ray, 69 cm DW (Mozambique).

© Alvheim © IMR

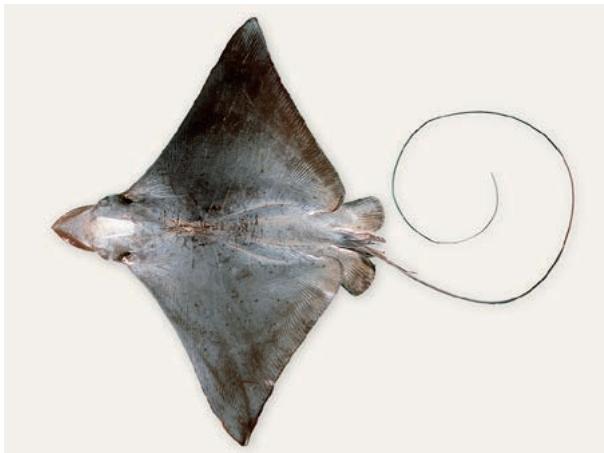


Myliobatis aquila, common eagle ray, 50 cm DW (Mozambique).

© Alvheim © IMR

* Source: CFSA # = no species account

Family AETOBATIDAE, Pelagic eagle rays



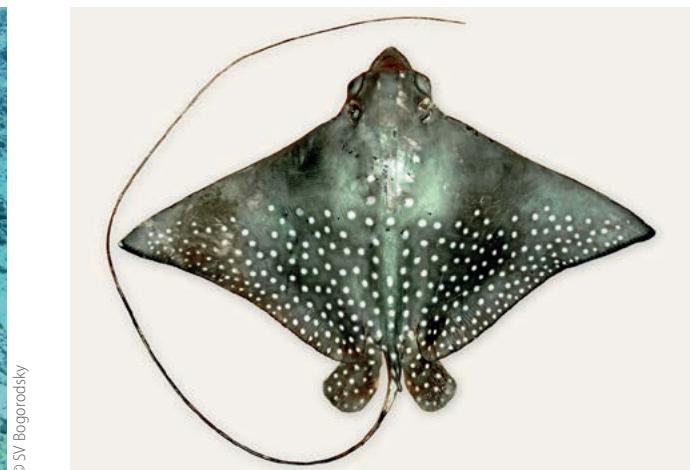
Aetobatus flagellum, longheaded eagle ray (Persian/Arabian Gulf).



Aetobatus narinari, spotted eagle ray (Red Sea).



Aetobatus narinari, spotted eagle ray (Red Sea).



Aetobatus ocellatus, ocellated eagle ray, 80 cm DW (Pakistan).

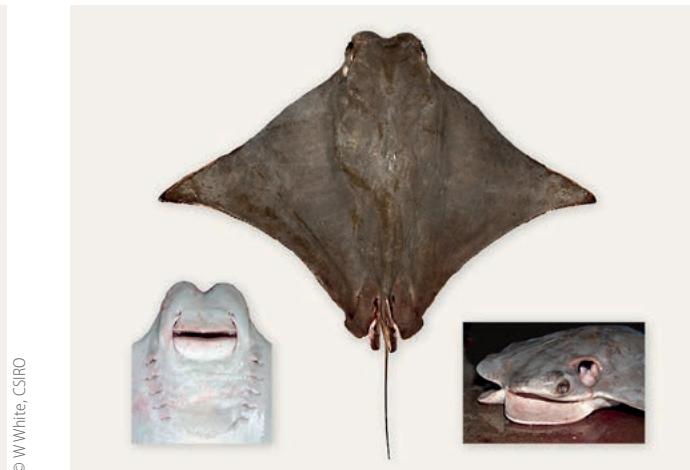
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© HB Osmany

Family RHINOPTERIDAE, Cownose rays



Rhinoptera javanica, flapnose ray, 70 cm DW (Indonesia).



Rhinoptera jayakari, short-tail cownose ray, 74 cm TL (Red Sea).

© SV Bogorodsky

Family MOBULIDAE, Devilrays

*Mobula alfredi*, reef manta ray (Maldives).

© AD Marshall

*Mobula alfredi*, reef manta ray, ventral view (Indonesia).

© DR King

*Mobula birostris*, giant manta ray (Mozambique).

© AD Marshall

*Mobula birostris*, giant manta ray, ~5 m DW, ventral view (S Mozambique).

© AD Marshall

*Mobula kuhlii*, pygmy devilray (S Mozambique).

© AD Marshall

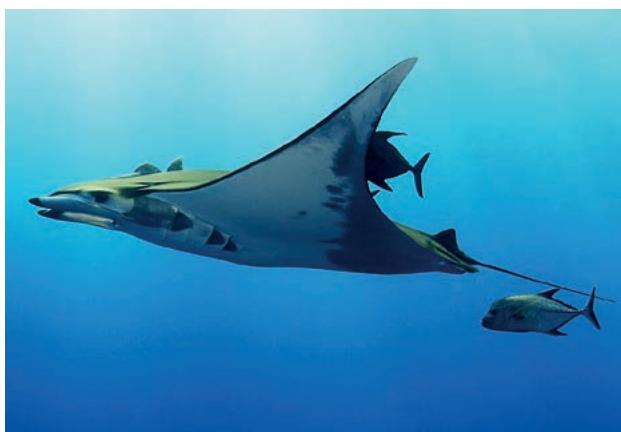
*Mobula kuhlii*, pygmy devilrays schooling (S Mozambique).

© AD Marshall

Family MOBULIDAE, Devilrays



1 *Mobula birostris*, giant manta ray, ~4 m DW, immature male, dorsal view (South Africa); ventral view (Mozambique). **2** *Mobula eregoodoo*, longhorned devilray, female (Madagascar). **3** *Mobula kuhlii*, pygmy devilray, 110 cm DW, male (Mozambique). **4** *Mobula mobular*, spinetail devilray (Pakistan). **5** *Mobula thurstoni*, bentfin devilray, 180 cm DW (Oman).



Mobula tarapacana, sicklefin devilray (Mexico).

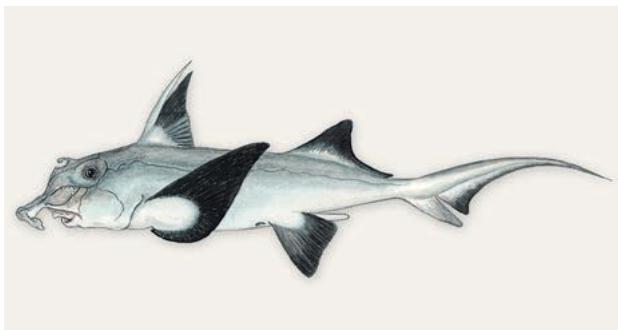


Mobula thurstoni, bentfin devilrays (S Eritrea).

© AD Marshall

© JE Randall, Bishop Museum

Family CALLORHINCHIDAE, Elephantfishes



Callorhinchus capensis, Cape elephantfish, 49 cm to rear of 2nd dorsal fin, mature male (South Africa).

Source: CFSA



Callorhinchus capensis, Cape elephantfish, 36 cm TL, head (South Africa).

PC Heemstra © NRF-SAIAB

Family RHINOCHIMAERIDAE, Longnose chimaeras



Harriotta raleighana, narrownose chimaera, 44 cm TL, female, preserved specimen (Atlantic Ocean).

© S Weigmann, ZMH



Harriotta raleighana, narrownose chimaera (Atlantic Ocean, USA).

© NOAA, Public Domain



Neoharriotta pinnata, sicklefin chimaera, 102 cm TL, male (Namibia).

O Alvheim © IMR



Neoharriotta pinnata, sicklefin chimaera, 99 cm TL, female (Namibia).

O Alvheim © IMR



Neoharriotta pumila, Arabian sicklefin chimaera, 62 cm TL, adult male paratype, preserved specimen (off Socotra).

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