Deep-sea fisheries project



9th Scientific Committee Meeting of the North pacific Fisheries Commission

Deep-water shark identification

NPFC CMM2023-14



CMM 2023-14

(Entered into force 26 July 2023) (Note: paragraph 9 entered into force1 January 2024)

CONSERVATION AND MANAGEMENT MEASURE ON SHARKS

The North Pacific Fisheries Commission (NPFC),

Recognizing the biological importance of sharks in the marine ecosystems as a key predatory species of the North Pacific Ocean, and the need to promote their long-term conservation;

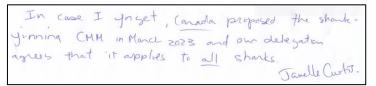
Concerned with vulnerability of certain shark species to exploitation given their low biological

On-Board Record of Interactions with Sharks

- A fishing vessel shall record, and maintain a record of, any shark catch in the Convention Area, to the extent possible by species, in its logbook on board the fishing vessel.
- 10. A Commission Member, or Cooperating non-Contracting Party, shall annually report all shark catches, to the extent possible by species, from their fishing vessels to the Secretariat.



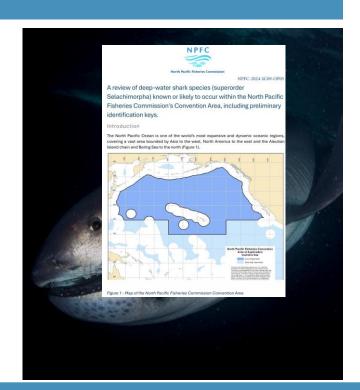
NPFC SC Nanaimo, 2023



NPFC SC decided that FAO DSF Project would assist and develop a draft key

Key - deepwater sharks

- Work to improve identification and reporting
- see NPFC-2024-SC09-OP05 (91 pages) and follow-up talk



coverage - deepwater sharks

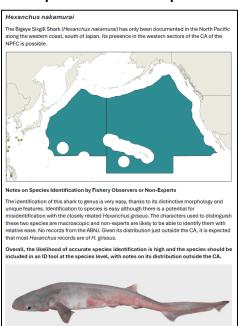
Deep-water shark orders, families, and species documented in the North Pacific

- 76 species in North Pacific
- 25 species in CA

	Deep-water species in the North Pacific	Deep-water species in NPFC CA
Hexanchiformes		
Hexanchidae	3	1
Chlamydoselachidae	1	1
Lamniformes		
Mitsukurinidae	1	0
Odontaspididae	2	0
Pseudocarchariidae	1	1
Alopiidae	1	1
Carcharhiniformes		
Scyliorhinidae*	0	0
Pentanchidae	20	4
Pseudotriakidae	1	1
Squaliformes		
Dalatiidae	6	3
Etmopteridae	15	8
Somniosidae	6	3
Centrophoridae	7	0
Squalidae	9	1
Echinorhiniformes		
Echinorhinidae	2	1
Pristiophoriformes		
Pristiophoridae	1	0
TOTAL	76	25

Classical key - deepwater sharks

Species descriptions



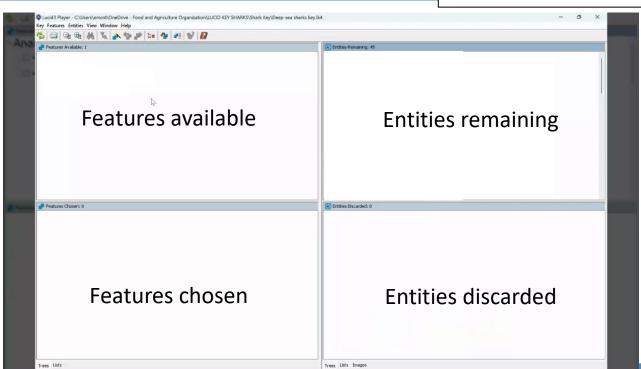
Two types of dichotomous keys

New style digital key

- 1. Classical keys are not used properly by observers (most of the time)
- 2. Most observers jump to page xx and match up a photo with the specimen
- 3. A digital key can be made from a classical key
- 4. A digital key can combine 1 and 2, and is more natural to use

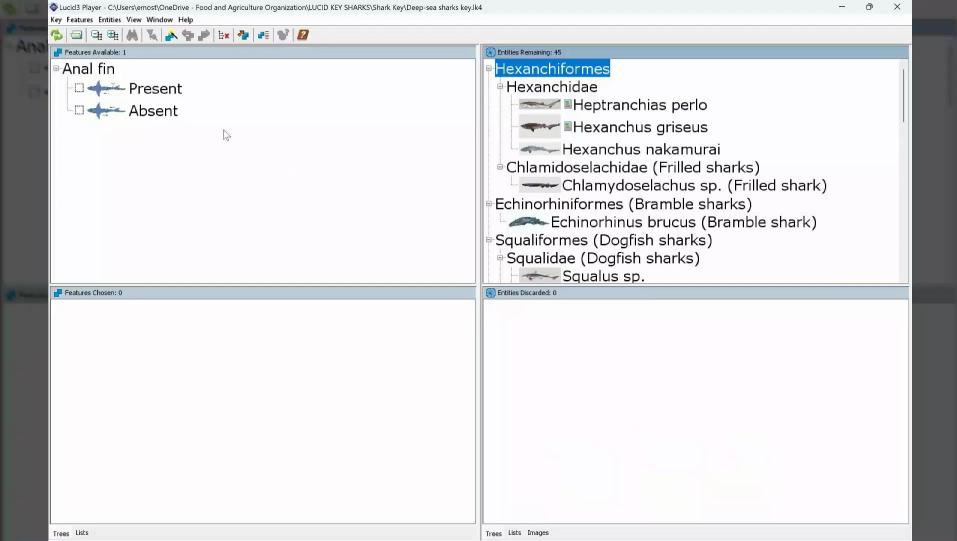
Lucidcentral Identification and Diagnostic Tools

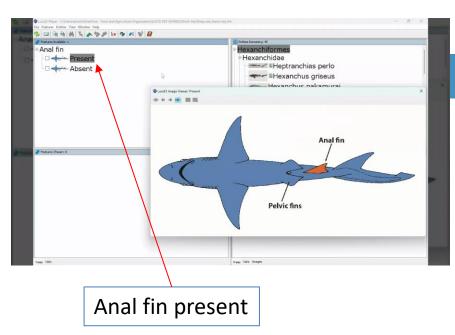
New style digital key



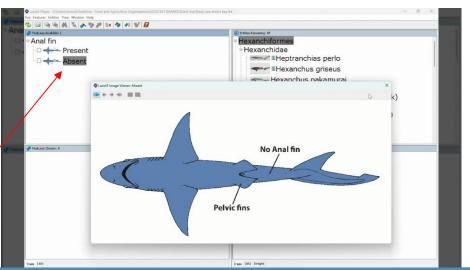


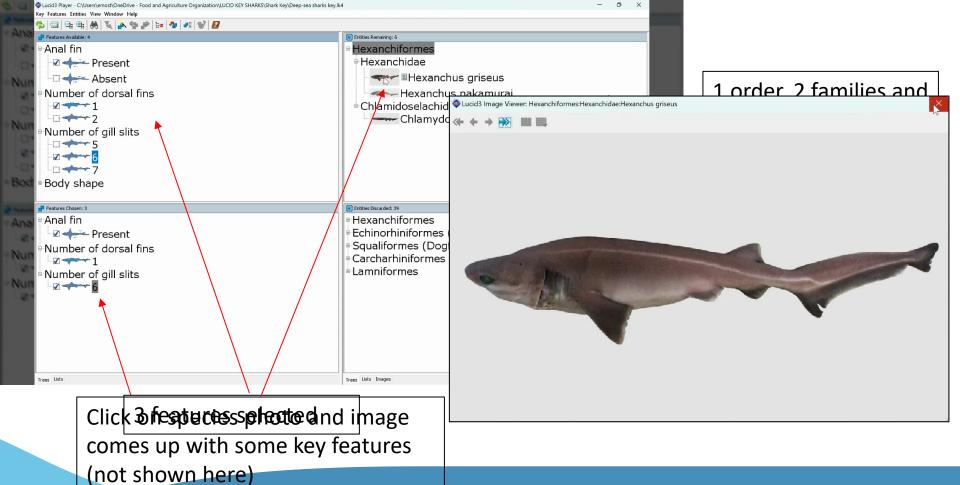
4 panes on a screen





Anal fin absent





COMMON OCEANS | Deep-sea fisheries project







The Common Oceans Deep-sea fisheries project brings together a global partnership dedicated to advance responsible deep-sea fisheries management and biodiversity conservation in areas beyond national jurisdiction (ABNJ). Funded by the Global Environmental Facility (GEF), led by the United Nations Food and Agriculture Organization (FAO), and executed by the General Fisheries Commission for the Mediterranean (GFCM). it works in collaboration with the seven deep-sea RFMOs, private sector, national and international organizations.

IN COLLABORATION WITH:





















