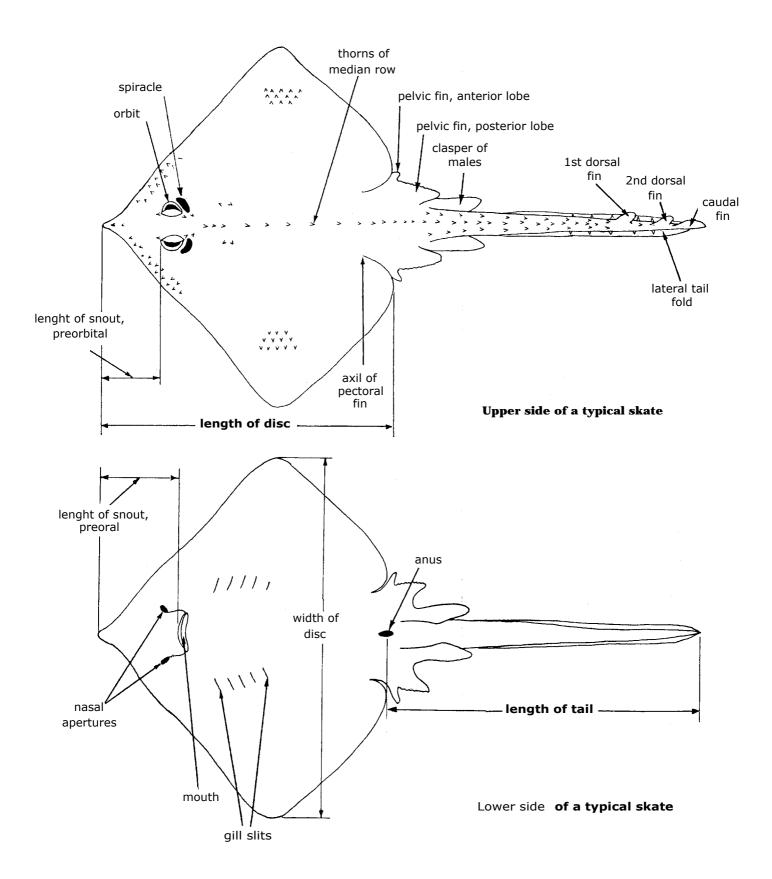


# **BATOID FISHES**

### **TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED**

(Straight-line distances only)



The batoid fishes constitute an important part of the commercial catches of Pakistan. Oil is extracted from the liver of some species and used mainly for smearing boats. They are not consumed as food but used mainly for fishmeal.

### **BATOID FISHES**

### **DASYATIDAE**

Loc. names: Pittan (Sin); Pittan (Bal)

FAO names: En - Stingrays, whiprays

Fr - Pastenagues Sp - Rayas latigo

Size: Variable, may reach more than 200 cm

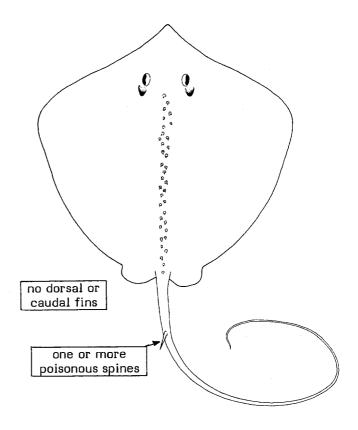
disc width

Fishing gear: Caught with lines, harpoons and

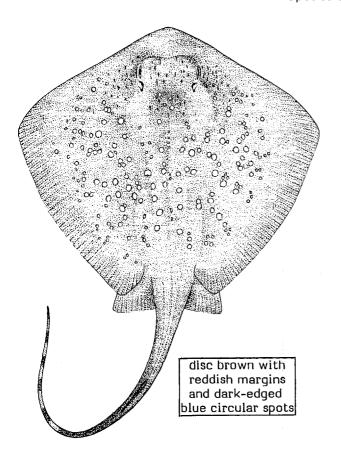
in bottom trawls

**Habitat and biology:** Stingrays are found mainly in shallow waters, including lagoons, river mouths and mangrove areas. Some species enter fresh waters. All species are ovoviviparous. The spines present on the tail can be rather dangerous and can inflict painful wounds which may take a long time to heal

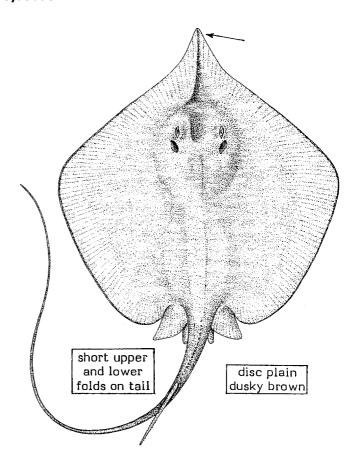
Interest to fisheries: Not locally consumed, but the flaps are dried for export or used for fishmeal. Oil is extracted from the liver but the quality is said to be rather low. The Handbook of Fisheries Statistics of Pakistan (1973-83) reports annual catches of stingrays ranging from 10 116 t (1983) to 49 017 t (1982), with an average of 29 600 t



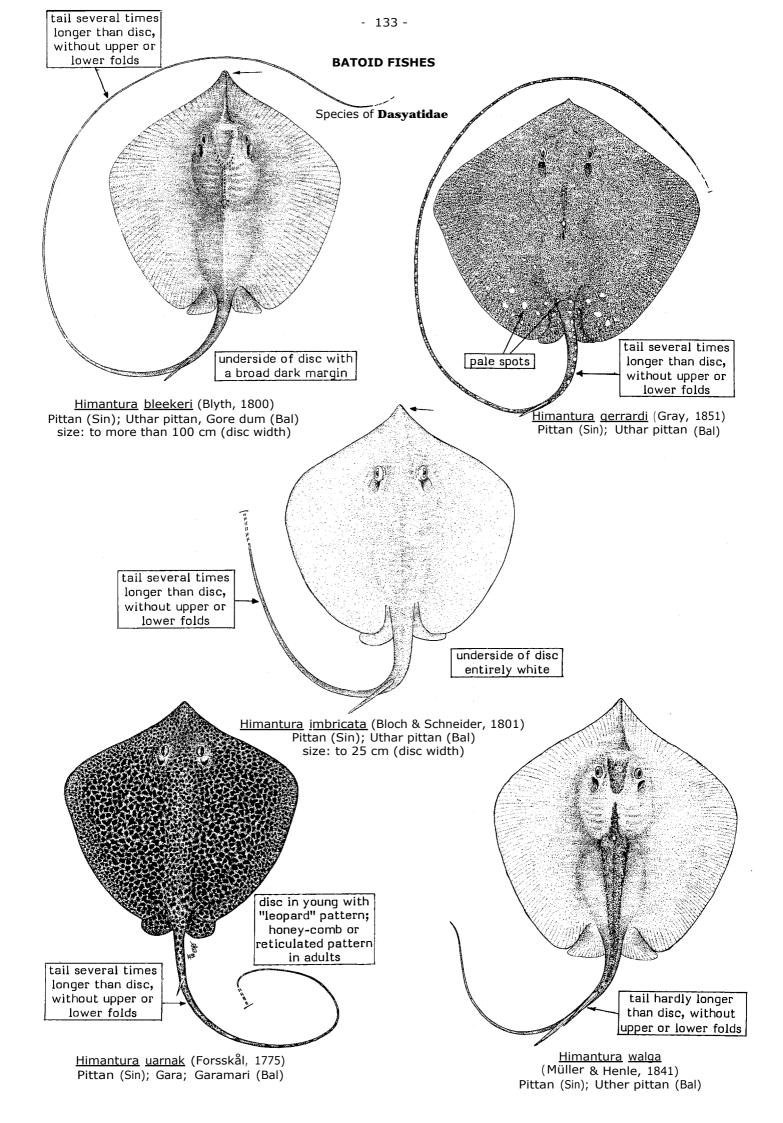
## Species of **Dasyatidae**

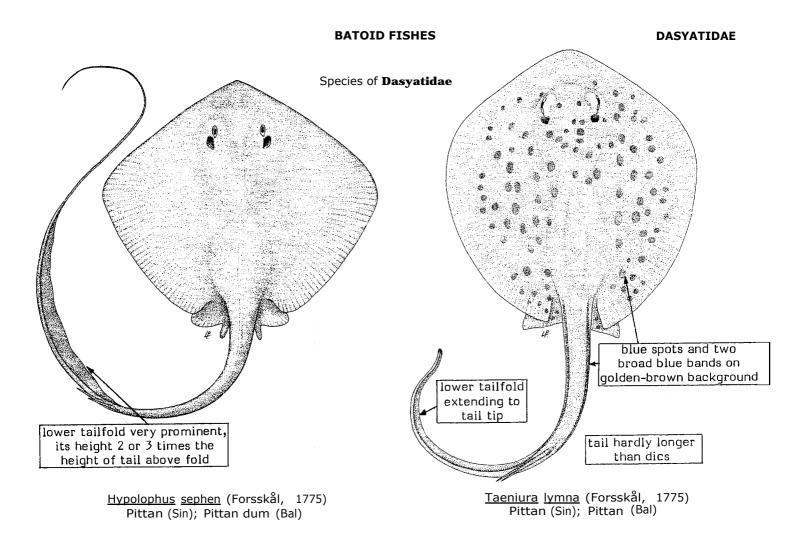


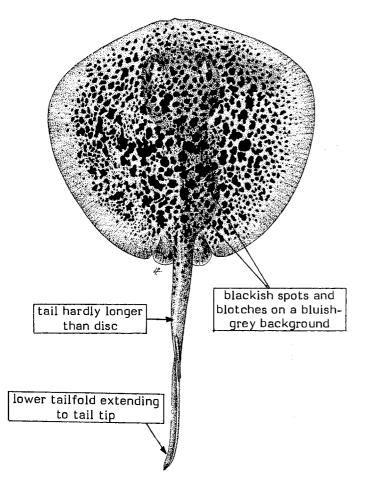
<u>Dasyatis</u> <u>kuhlii</u> (Miller & Henle, 1841) Pittan (Sin) Chittipittan, Pittan, Phulano (Bal)

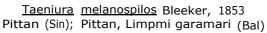


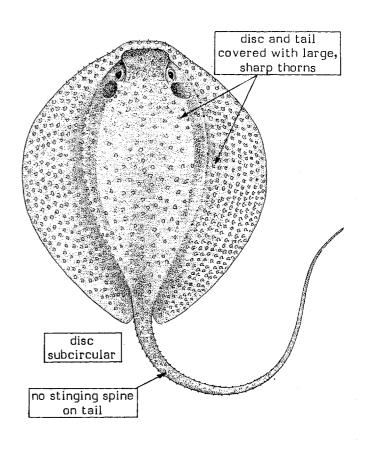
<u>Dasyatis</u> <u>zugei</u> (Miller & Henle, 1841) Pittan (Sin); Uthar pittan (Bal)











<u>Urogymnus</u> <u>asperrimus</u> (Bloch & Schneider, 1801) Pittan (Sin); Pittan (Bal)

Loc. names: Pittan (Sin); Pappo (Bal)

FAO names: En - Butterfly rays

Fr - Raies-papillon Sp - Rayamariposas

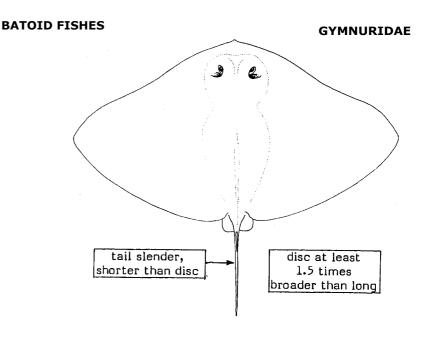
Size: Max.: to more than 200 cm disc width

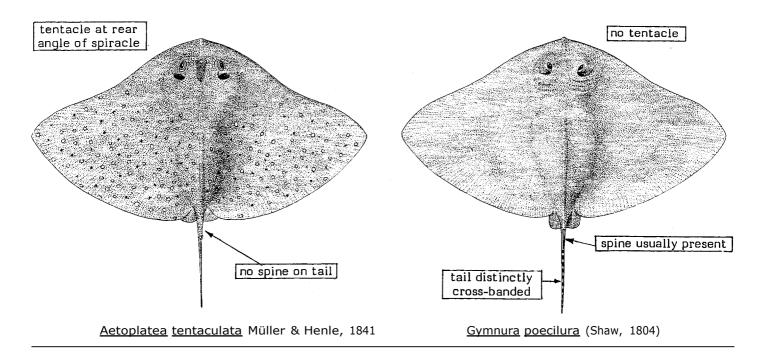
Fishing gear: Caught with lines and in bottom

trawls

Habitat and biology: Usually found on sandy and muddy bottoms in shallow coastal waters, including estuaries and river mouths. Ovoviviparous, feed mainly on crustaceans and clams

Interest to fisheries: Not locally consumed, but dried for export or used for fishmeal





Loc. names: Karunj (Sin); Kareenaij (Bal)

**FAO names :** En - Devil rays, mantas

Fr - Diables de mer, mantes

Sp - Diablitos, mantas

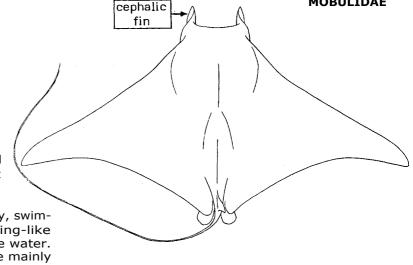
Size: Max.: over 700 cm disc width

Fishing gear: Caught with line gear, harpoons and in trawls. Larger specimens known to pull a boat

for several miles when hooked or harpooned

Habitat and biology: Pelagic and highly migratory, swimming at the surface by flapping their large wing-like pectoral fins and occasionally leaping out of the water. Usually over the continental shelf. They are mainly planktonic feeders, but also feed on small schooling

fishes. Ovoviviparous



**MOBULIDAE** 

Interest to fisheries: Not used for food but mainly for fishmeal. Oil is extracted from the liver and used for smearing boats

# mouth terminal Species of Mobulidae Mobulidae

Mobula japanica (Müller & Henle, 1841) is also likely to occur in Pakistan. It can be distinguished from M. diabola for the presence of a stinging spine at base of tail

a single series

Loc. names: Karunj, Ghido (Sin);

Chombo, Mulla pittan, Golat pittan (Bal)

**FAO names :** En - Eagle rays

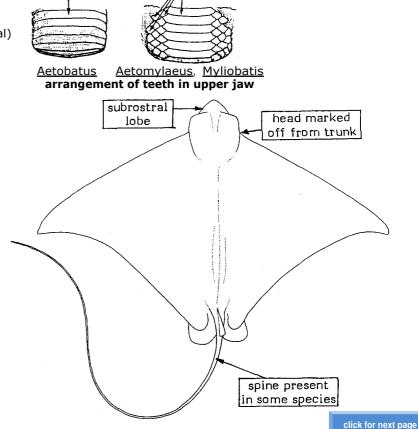
Fr - Aigles de mer Sp - Aguilas, chuchos

Size: Max.: up to 250 cm disc width

**Fishing gear :** Caught with hook and line, harpoons and in trawls

Habitat and biology: Quick and active swimmers, capable of travelling long distances, usually over the continental shelf. All species are ovoviviparous and the newly-born closely resemble their parents. Although often observed leaping out of the water, they sometimes swim in groups close to the bottom where they feed on crustaceans and on hard-shelled molluscs

**Interest to fisheries :** Although species of this family are rather common and abundant, they are not locally used for food, but mainly processed fishmeal. The oil extracted from the liver is used for smearing boats



(Shaw, 1804)

7 series

**MYLIOBATIDAE**