The Hammerhead Sharks in Ceylon Seas (Family Sphyrnidae)

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The hammerhead sharks comprising the family Sphyrnidae are easily separable from other large sharks by their possession of a flattened head with lateral projections—the "hammer"-or "bonnet" shaped head. Furthermore, the shape of the head alone can be used as the character for distinguishing the different species of this family, present in tropical and temperate seas (Gilbert, 1967).

Four species are captured from the sea surrounding Ceylon. They are identified as Sphyrna blochii (Cuvier, 1817), S. mokarran (Ruppell, 1835), S. lewini (Griffith and Smith, 1834) and S. zygaena (Linnaeus, 1758), using the characters noted in the comprehensive taxonomic revision of Sphyrnid sharks by Gilbert (1967). Gilbert had also stated there (p. 36) that S. zygaena has an antitropical distribution and therefore does not occur in the intervening warm tropical seas. However, the present study confirmed the previous listing of this species in the tropical seas around Ceylon (Misra 1947, Munro 1955). Photographs of the ventral surface of the head are shown in Fig. 1 and the distinguishing characteristics of the head are noted in the following key to the species:—

Fig. 1

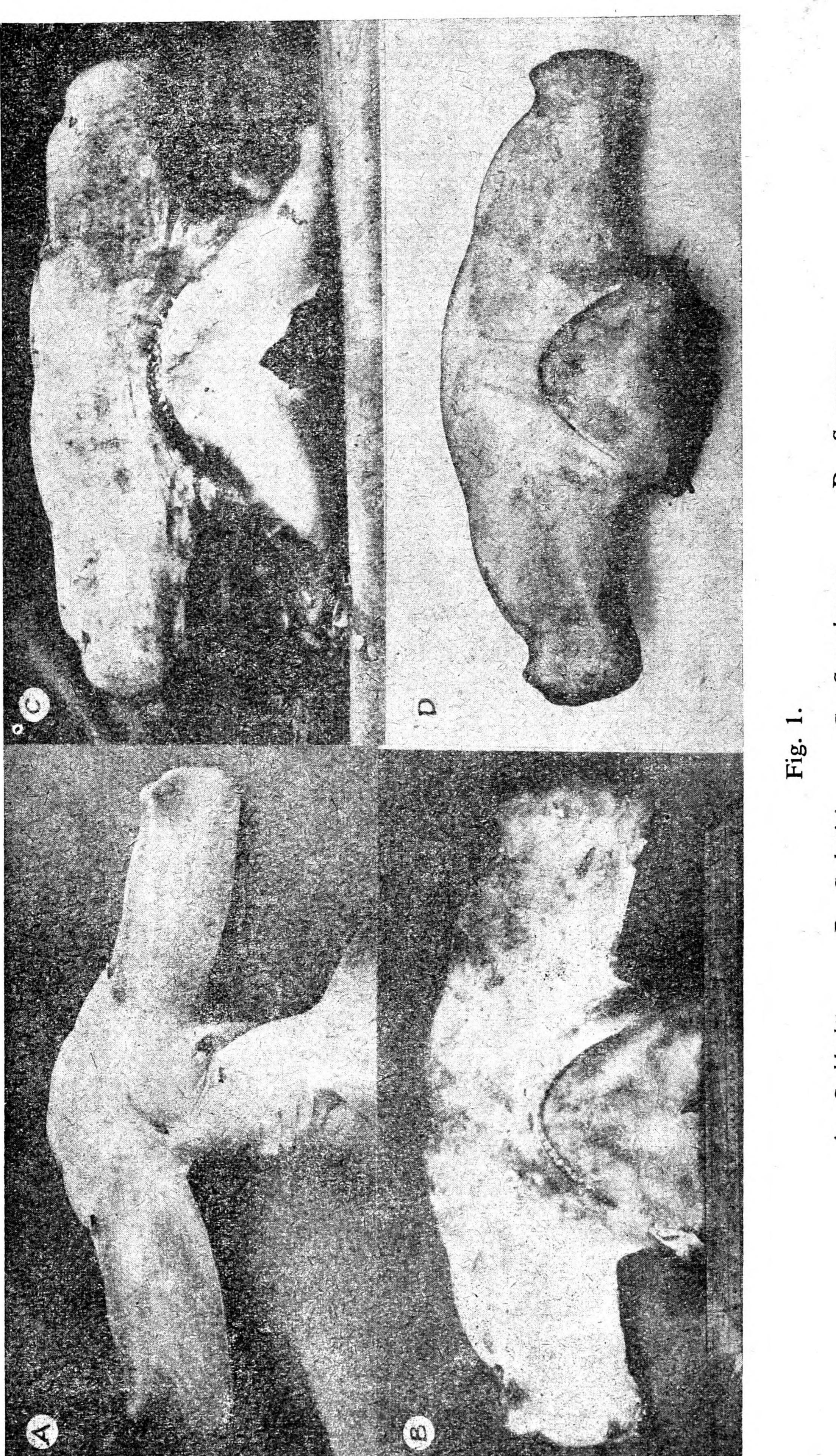
KEY TO SPECIES OF SPHYRNA IN CEYLON SEAS

(Reference is directed to Figure 1)

Eyes and nostrils close together (near or at the ends of the lateral head extensions)2.

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- S. blochii is captured with set lines and drift nets from the shallow sea overlying the wide continental shelf off the northwest coast (Palk Bay and Gulf of Mannar). The larger specimens landed do not exceed five feet in length; it is the smallest of the four species recorded here.
 - S. mokarran is taken on set lines from the deep sea. This species is rarely found in fish landings
- S. lewini and S. zygaena are the commonly obtained hammerhead sharks, with individual specimens often reaching lengths exceeding six feet. They are captured on trolling lines, floating longlines and drift nets (mesh 4 to 6 inches) from the deep sea beyond the relatively narrow continental shelf encircling much of Ceylon's coastline.

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