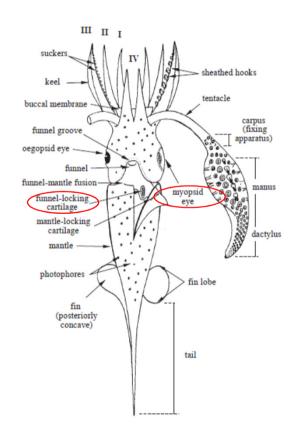
Identification guide for shelf cephalopods in the UK waters (North Sea, the English Channel, Celtic and Irish Seas

Squids – Myopsida: Loliginidae

Simple stick-like funnel-locking cartilage:





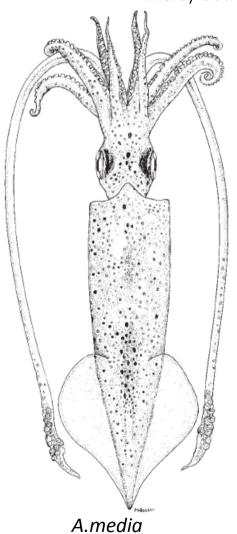


Myopsid eye:

Corneal membrane covers the entire eye, no hole in front of pupil

Alloteuthis (fins <50% mantle length)

likeley both squids are the same species: no genetic difference between them in the North Sea

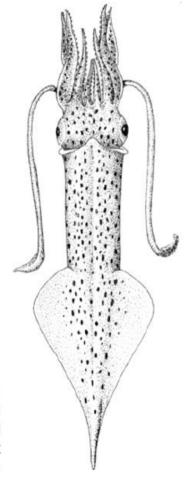




Tentacles long, robust; clubs large, expanded, median manal suckers large (9 to 14% of head width). Left ventral arm hectocotylized: 10 to 12 (usually 11) normal suckers in ventral row, followed distally by papillae.

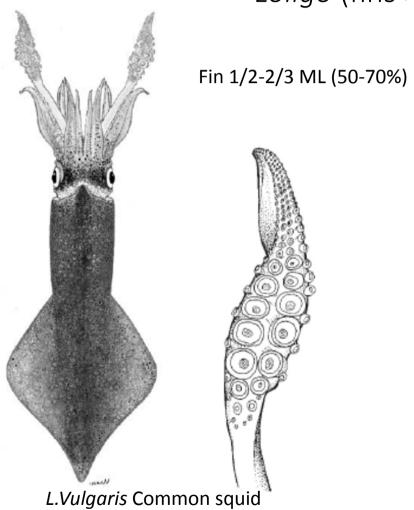


suckers; tentacles short, delicate; clubs small, narrow, median manal suckers small (6 to 8% of head width). Arms are medium to short; left ventral arm hectocotylized, with 6 to 8 pairs of normal suckers proximally, followed distally by 2 longitudinal series of fine papillae.



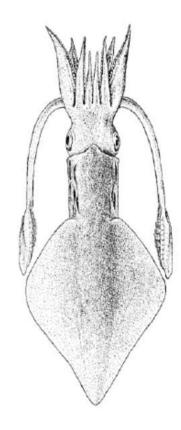
A.subulata

Loligo (fins >50% of mantle length)



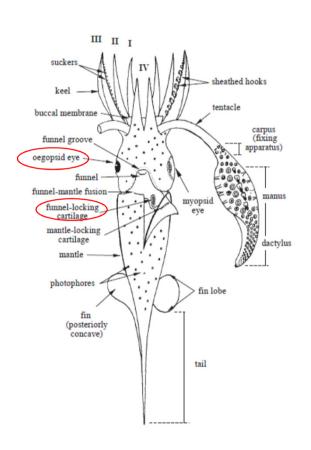
Fin ~3/4 ML (>70%)





L.Forbesi Northern squid

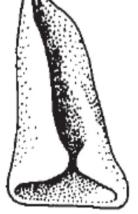
Squid – Oegopsida:Ommastrephidae



Oegopsid eye



There is a big round hole in the centre of cornea in front of pupil



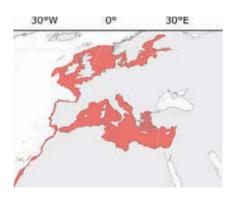
T-shaped funnel-locking cartilage:

Todaropsis eblanae

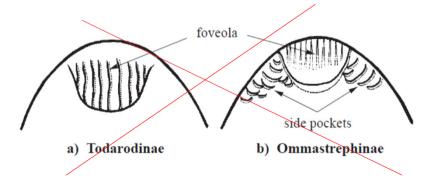
Lesser flying squid

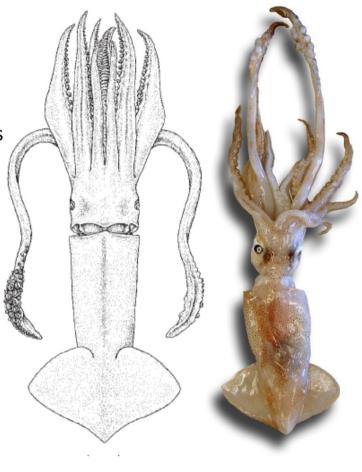
A short bulky body

Most of the tentacle length is **WITHOUT** suckers



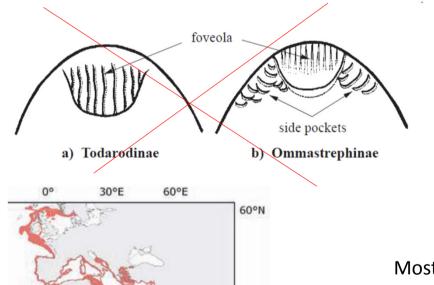
The funnel groove is smooth, without foveola or sidepockets.





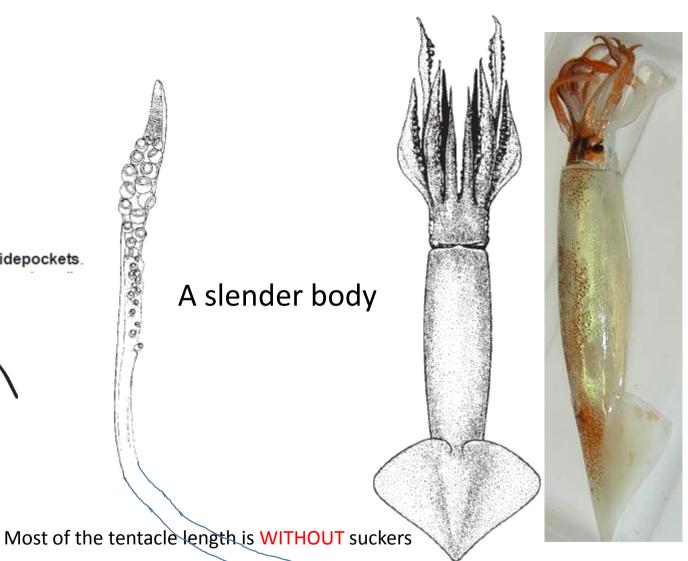
Illex coindeti Short-fin squid

The funnel groove is smooth, without foveola or sidepockets.



30°N

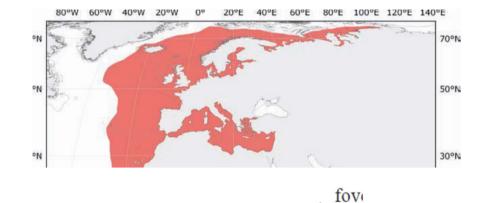
A slender body



Todarodes sagittatus

Arrow squid

Most of the tentacle length is **WITH** suckers

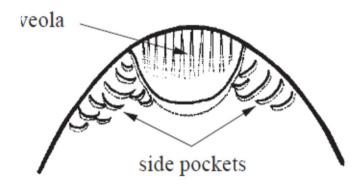


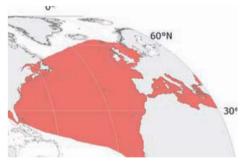




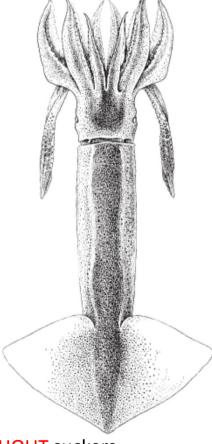
Ommastrephes bartrami

Flying squid











Most of the tentacle length is WITHOUT suckers

photophores present. A long, wide, silvery or golden opalescent strip extends along the ventral midline from just posterior to the mantle opening to the level of the anterior edge of the fins. Similar silvery or golden tissue occurs on the ventral surface of the head and ventral arms. A relatively dense aggregation of small subcutaneous photophores is

Fin is of a different shape

— it is a really flying squid.

Open oceanic species

(bottom > 1000 m) between

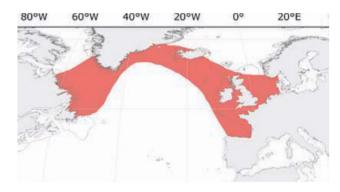
Mauritania and Scotland

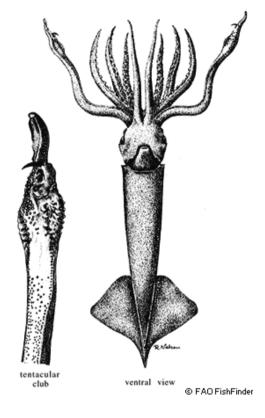
Squid – Oegopsida: Gonatidae

Atlantic Armhook squid

Oegopsid eye with hole in cornea



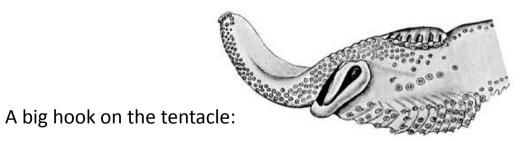




Simple funnel-locking cartilage (as in *Loligo*):

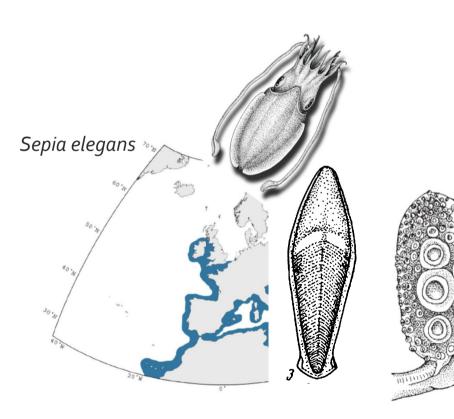


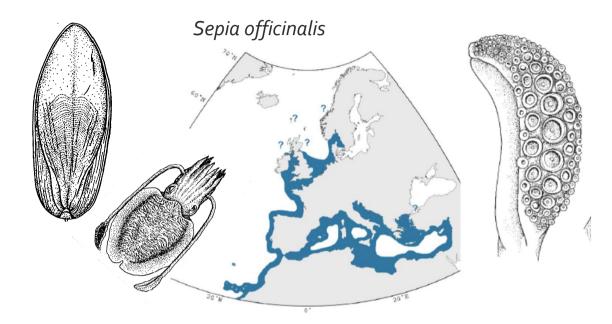
Very slender body

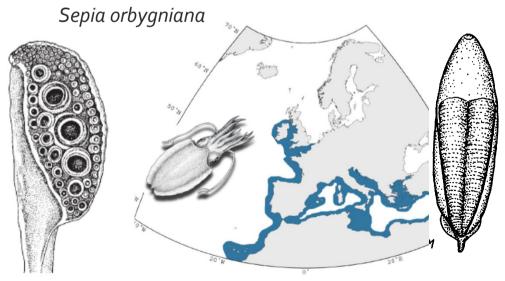


Oceanic species, might be occasionally met on continental slope from Portugal to the West Scotland (bottom > 1000 m)

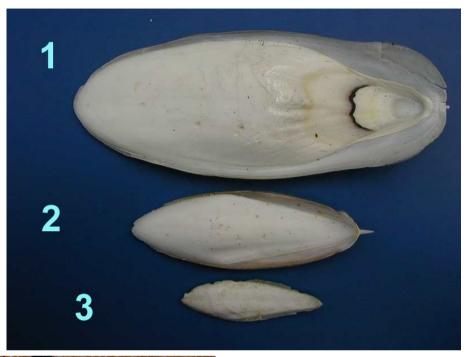
Cuttlefishes -Sepiida













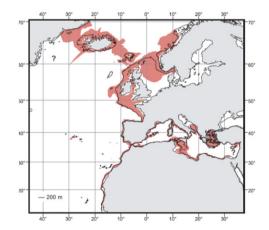


Sepia officinalis Linnaeus
 Sepia orbignyana Férussac
 Sepia elegans d'Orbigny

Sepiolida: Rossiinae: Rossia

Head and mantle are not joined





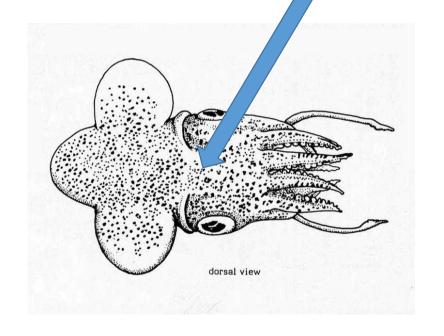
Rossia macrosoma – a common U.K. species; head and dorsal mantle smooth



Rossia palpebrosa – an Arctic species, could be occasionally captured at north Scotland. Head and dorsal mantle rough

Sepiolida: Sepiolinae

Head and mantle are joined

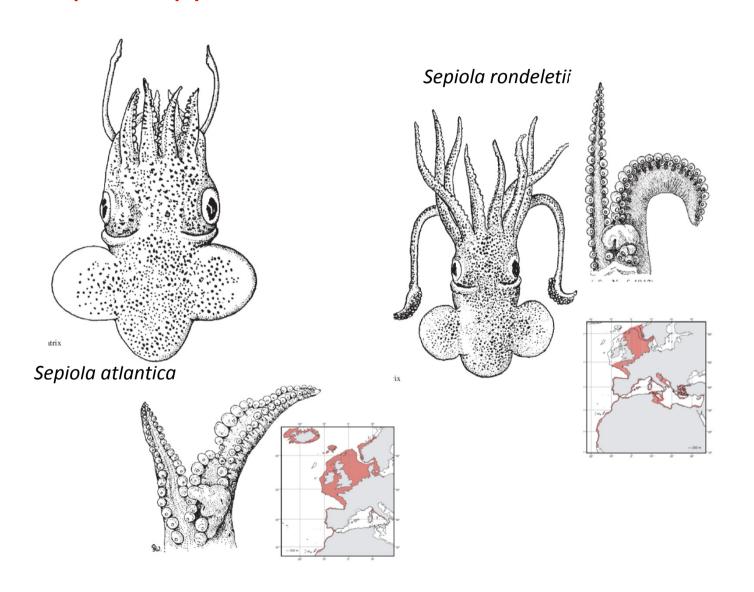


- Inside of the mantle there is a light organ on the ink sac – SEPIOLA



There is no light organ on the ink sac - SEPIETTA

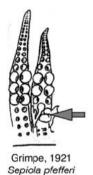
Sepiola spp — these cuttlefishes are best recognisable by modified arms of mature males, though...

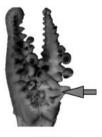


Sepiola aurantiaca from Mediterranean to Norway



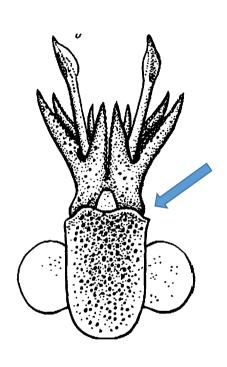
Sepiola pfefferi from Brittany to Norway



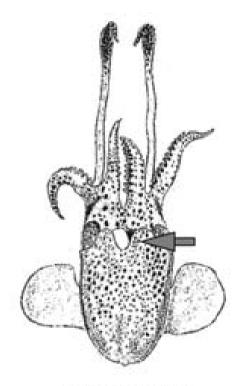


Sepiola pfefferi

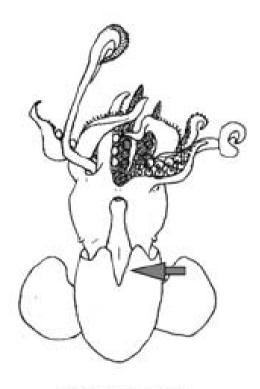
... both sexes could be identifiable by the ventral edge of the mantle



Sepiola atlantica and Sepiola rondeletii



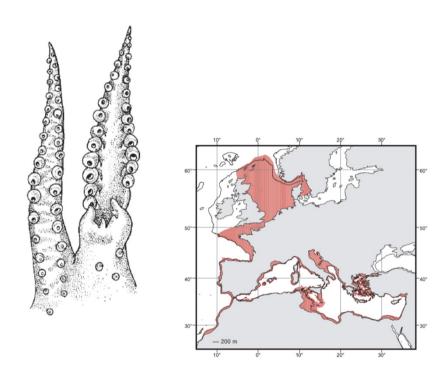
Russell, 1922 Sepiola aurantiaca



Grimpe, 1921 Sepiola pfefferi

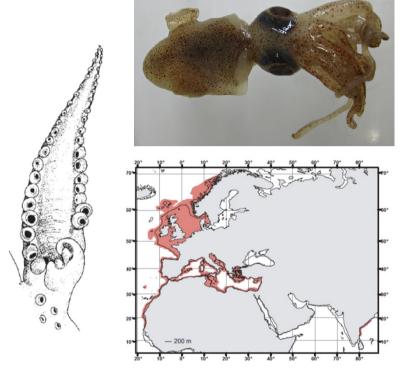
Sepietta spp — a modified arm of a mature male is the ONLY reliable

tool for identification; females are generally not identifiable in field



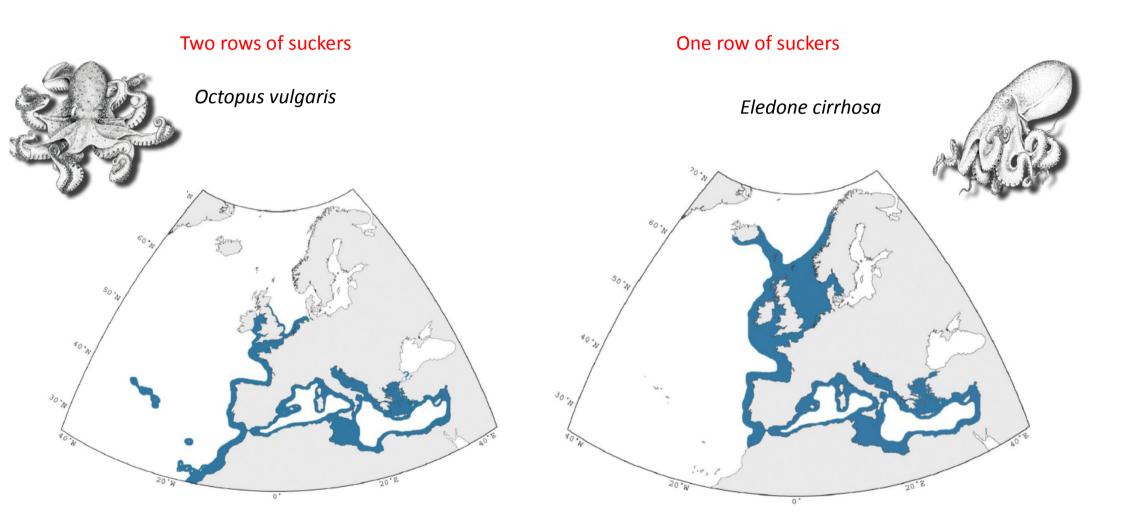
Sepietta neglecta (a smaller species, adults up to 5 cm without tentacles)

or lost during fisheries operations. The clubs differ between the 2 species: the club is shorter, more delicate and bears smaller suckers in *S. neglecta*, than in *S. oweniana*. Males are easily identified by the structure of the hectocotylus.



Sepietta oweniana (a larger species – adults up to 7-9 cm without tentacles)

Octopoda



In deep seas > 400 m one may occasionally catch *Batypolipus arcticus* though sometimes the species could happen much shallower

