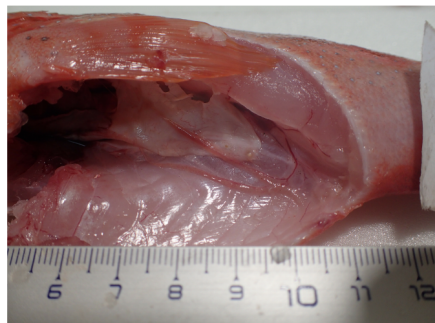


Grouper / *Epinephelinae* sp.



A - IMMATURE

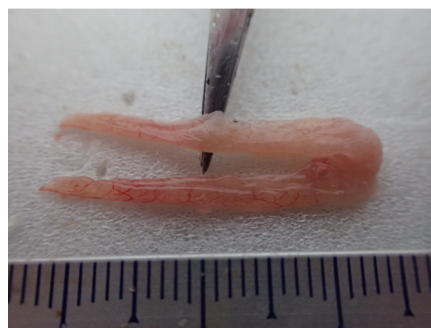
NON EXISTENT
BECAUSE
PROTOGYNOUS
HERMAPHRODIT
SPECIES



B - DEVELOPING

OPAQUE GONADS IN
TWISTED SHAPE

NON-FLOWING
GONADS



C - SPAWNING

FLOWING GONADS

OPAQUE AND
WHITISH GONADS



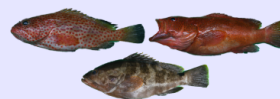
D - REGRESSION/REGENERATION

BLOOD RESIDUE IN
TISSUES

FLABBY GONADS

MILT RESIDUALS



Grouper / *Epinephelinae* sp.**E - OMITTED SPAWNING**

UNDETERMINABLE WITH THE NAKED EYE

F - ABNORMALNECROSIS,
SCLEROSIS OR
INTERSEX

Picture	Sex	Species	First maturity size
		Cephalopholis fulva	NA
		Epinephelus guttatus	NA
		Epinephelus striatus	NA

References/Photos :

ICES (WKASMSF 2018 & WKMATCH 2012),
IFREMER,

Quéro J-C. et Vayne J-J.2008. Les poissons de mer des pêches françaises : delachaux et niestlé, 304

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