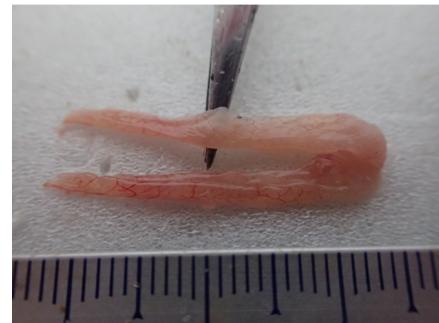


**Grouper / *Epinephelinae* sp.****A - IMMATURE**

NON EXISTENT  
BECAUSE  
PROTOGYNOUS  
HERMAPHRODIT  
SPECIES

**B - DEVELOPING**

OPAQUE GONADS IN  
TWISTED SHAPE

**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 - ABNORMAL**NECROSIS,  
SCLEROSIS OR  
INTERSEX

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

**References/Photos :**

ICES (WKASMSF 2018 &amp; WKMATCH 2012),

IFREMER,

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