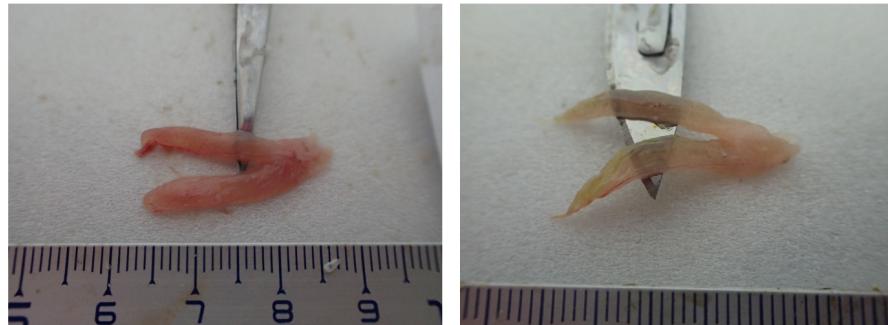
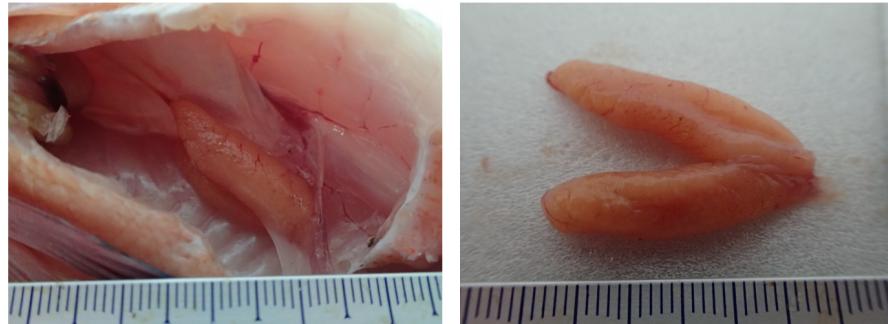
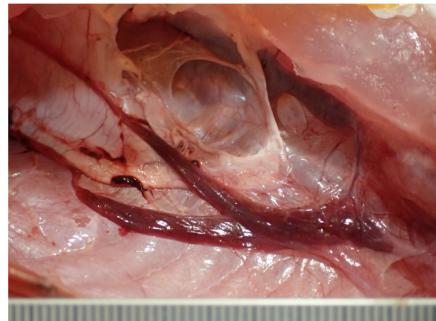


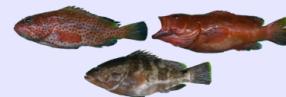
**Grouper / *Epinephelinae* sp.****A - IMMATURE**TRANSPARENT TO  
TRANSLUCID GONADS

WITHOUT EGGS

**B - DEVELOPING**non-hydrated eggs  
SOMETIMES visible

OPAQUE GONADS

**C - SPAWNING**AT LEAST 1 VISIBLE  
HYDRATED EGG**D - REGRESSION/REGENERATION**FEW HYDRATED  
EGGS STILL PRESENTFLABBY GONADS AND  
THICK INNER LAYERGeneral aspect  
"stunted"

**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

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