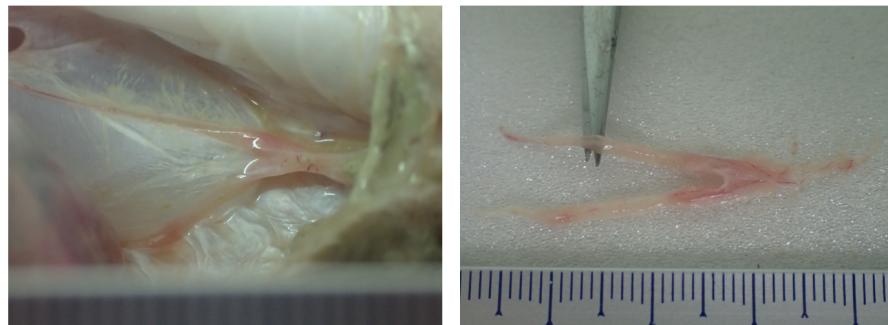


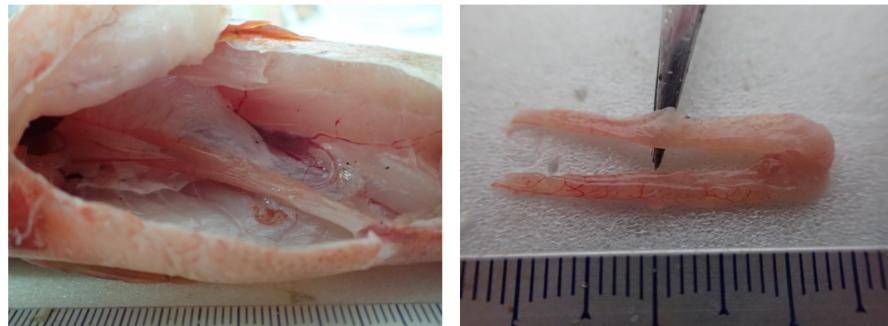
Grouper / *Epinephelinae* sp.**A - IMMATURE**

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