

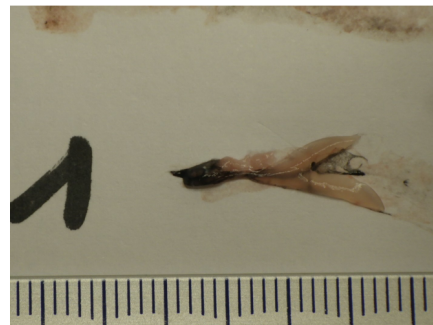
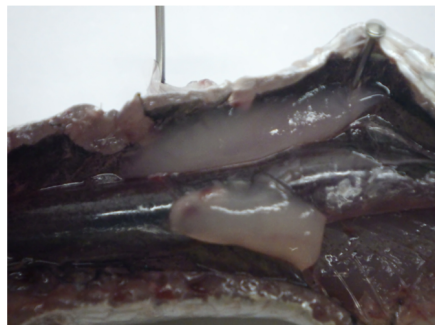
# Sardine / *Sardina pilchardus*



## A - IMMATURE

FILIFORM and flattened  
knife-shaped surface

TRANSLUCID



## B - DEVELOPING

Gonads are filling and  
becoming opaque

NON-FLOWING  
GONADS



## C - SPAWNING

FLOWING GONADS

OPAQUE AND  
WHITISH GONADS



## D - REGRESSION/REGENERATION

BLOOD RESIDUE IN  
TISSUES

FLABBY, FLAT AND  
RELAXED GONADS

MILT RESIDUALS



## VISUAL MATURITY SCALE

**Sardine / *Sardina pilchardus***




### E - OMITTED SPAWNING

UNDETERMINABLE WITH THE NAKED EYE

### F - ABNORMAL

NECROSIS,  
SCLEROSIS OR  
INTERSEX



Picture	Sex	Species	First maturity size
	♂	<i>Sardina pilchardus</i>	12 - 17 cm

#### 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