

Grunt / *Haemulon* sp.**A - IMMATURE**

TRANSPARENT TO
TRANSLUCID GONADS

WITHOUT EGGS

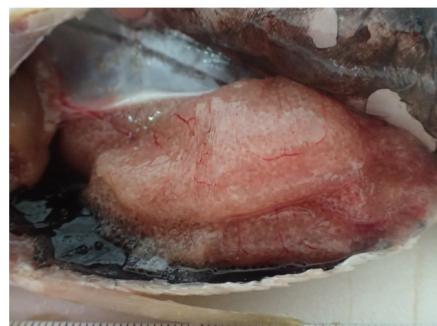
**B - DEVELOPING**

non-hydrated eggs
SOMETIMES visible

OPAQUE GONADS

**C - SPAWNING**

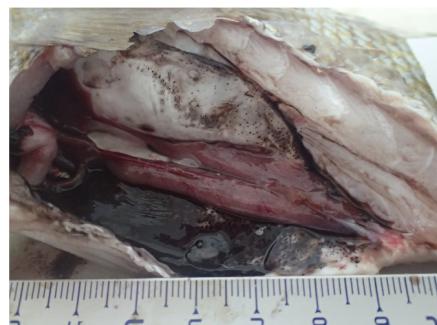
AT LEAST 1 VISIBLE
HYDRATED EGG

**D - REGRESSION/REGENERATION**

FEW HYDRATED
EGGS STILL PRESENT

FLABBY GONADS AND
THICK INNER LAYER

General aspect
"stunted"



Grunt / *Haemulon* sp.**E - OMITTED SPAWNING**

UNDETERMINABLE WITH THE NAKED EYE

F - ABNORMALNECROSIS,
SCLEROSIS OR
INTERSEX

Picture	Sex	Species	First maturity size
		Haemulon carbonarium	NA
		Haemulon flavolineatum	NA
		Haemulon parra	NA
		Haemulon plumieri	NA
		Haemulon sciurus	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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