





ReDundancy Analysis (RDA) showing relationship between the environmental parameters and the presence/absence of fish larvae



- Fish larvae assemblages are mostly driven by salinity changes.
- Oxygen, aluminium and phosphate concentrations are between the most significant parameters affecting both seasonal and spatial community changes. •
- Estuaries and mangroves showed a higher seasonal variability than the coastal areas.

CONCLUSIONS

Results show that the diversity of early life stages of fish varies between sites and seasons depending on the environmental factors. Nutrients and heavy metal concentrations are significantly affecting the communities suggesting that anthropogenic pollutions needs to be monitored to avoid habitats degradations. Few species such as *P.nodosus* et *C.pscittacus* and some Sciaenidae seems depending on particular habitats conditions for reproduction. Conversely, other species such as *Cynoscion* acoupa and Anchoviella lepidentostole are present in all habitats. This study can therefore constitute the bases for the development of an integrated ecosystem-based

ICES Annual Science Conference 19-22 September 2022, Dublin, Ireland

We acknowledge support from the MESH project