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Third Federation Workshop

5-6 November 2025, Brussels [Belgium]



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Supporting Marine Spatial Planning with data and services

Moderator: Cyrielle Delvenne, VLIZ

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Transboundary Transport & Connectivity, Extreme Events and Ocean Glider services from the ICOOE

Joao Paulo do Nascimento Vitorino, Vânia
Lima (IH)

5-6 November 2025, Brussels [Belgium]



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ICOEE VLAB

INTEGRATION OF COASTAL OCEAN OBSERVATIONS ALONG EUROPE

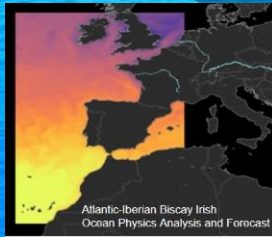
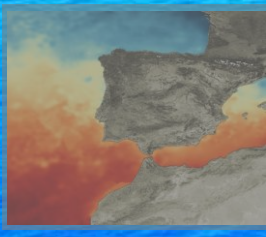
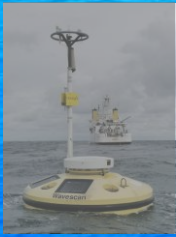
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In-situ observations

Remote Sensing

Numerical Models

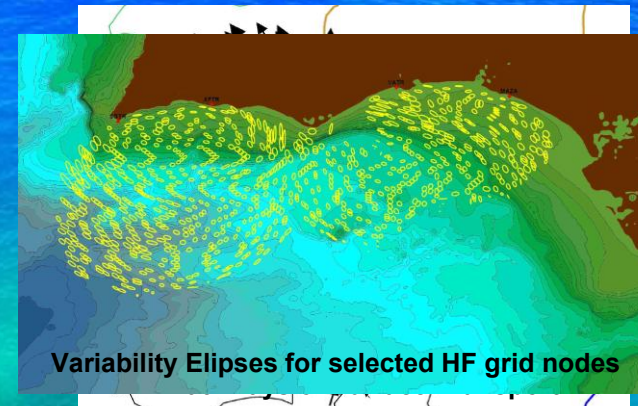


UNDERSTANDING THE IMPACTS OF INFLUENCES
FROM LOCAL OR REMOTE AREAS IS KEY TO
MANAGE THE COASTAL OCEAN ENVIRONMENT



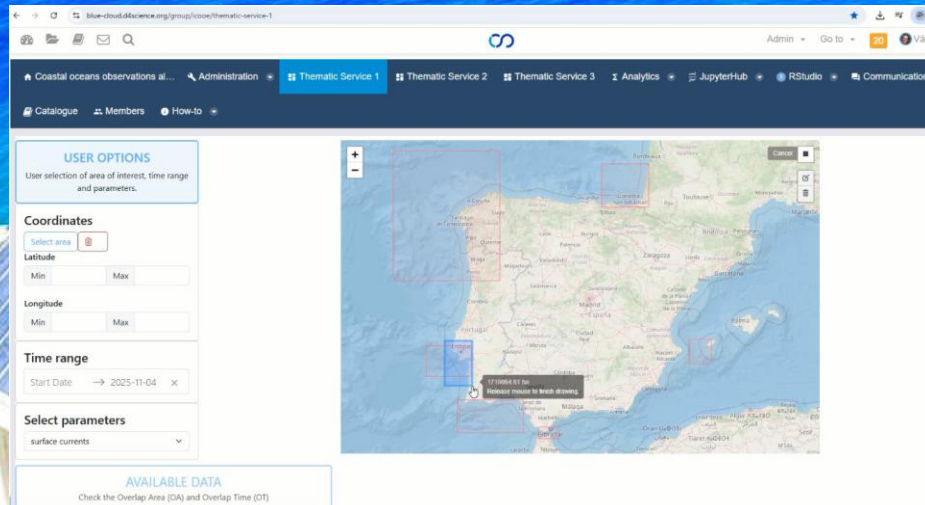
“TRANSBOUNDARY PROCESSES AND CONNECTIVITY” THEMATIC SERVICE

IDENTIFY
& ACCESS
RELEVANT DATA

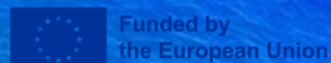


EXPLORE
INDIVIDUAL DATASETS

INTEGRATE
DIFFERENT DATA SOURCES



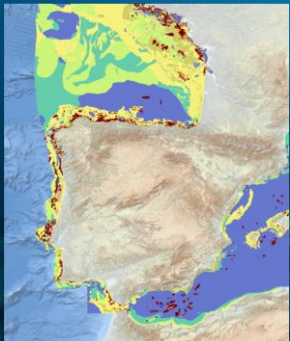
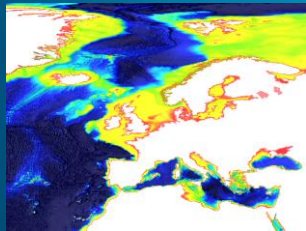
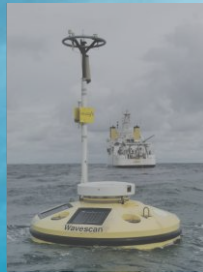
THE COASTAL OCEAN AT THE TIP OF YOUR FINGERS



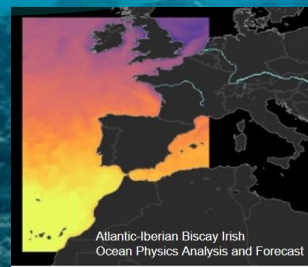
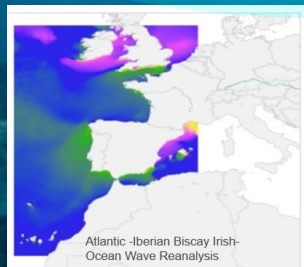


ICOEE VLAB

INTEGRATION OF
COASTAL OCEAN
OBSERVATIONS
ALONG EUROPE



“EXTREME EVENTS” THEMATIC SERVICE



Storm Ophelia (Oct2017)
Storm Emma (Mar2018)
Hurricane Leslie (Oct2018)

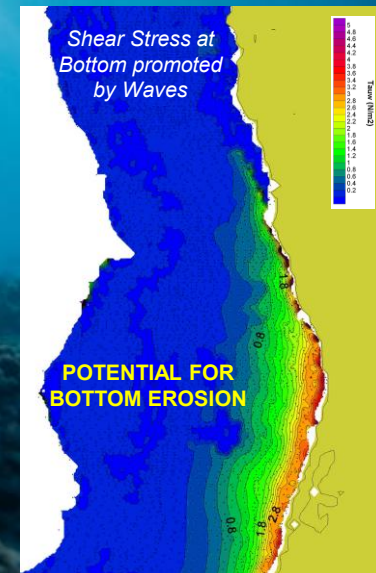
ASSESSING THE IMPACTS OF MAJOR STORMS ON THE COASTAL OCEAN ENVIRONMENT AND OFFSHORE STRUCTURES

CHARACTERISE
WAVE & CURRENT CONDITIONS
AFFECTING BOTTOM & WATER COLUMN

INTEGRATE
SUPPORT PRODUCTS COMBINING
BOTTOM CHARACTERISTICS &
ENVIRONMENTAL CONDITIONS

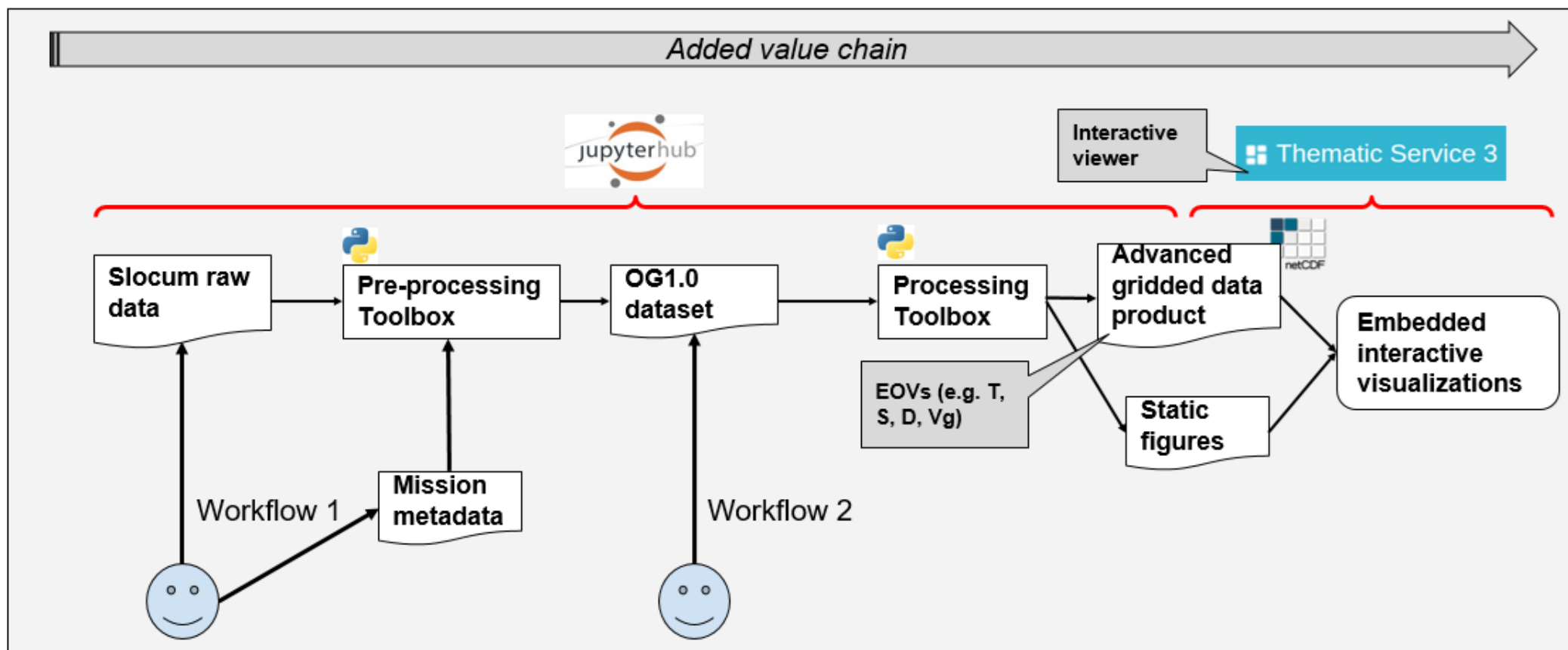
SHAPPING OF BOTTOM HABITATS

Characteristics of Bottom Features
promoted by Waves



“Ocean Glider” Thematic Service within ICOOE Virtual Lab

<https://blue-cloud.d4science.org/group/icooe/thematic-service-3>



The screenshot shows a JupyterLab interface with a file browser on the left and a code editor on the right. The code editor displays a workflow example for 'Example 5 (OG1.0 format)'. It includes an 'Important note' about the feasibility of processing an OG1.0 dataset. The code defines a variable 'sea045_20230604T1253' and imports various modules from the 'glider' package. The code then defines a function 'QC' and a variable 'dataset'.

