



CIESM Activities that may affect MBSHC

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CIESM, Director General



MBSHC24, 2 - 4th July 2024, Constanta, Romania



IHO / CIESM Scientific Cooperation Agreement



IHO/CIESM MoU, 24 March 2017

Strengthening scientific and technical synergies in their research and monitoring of marine waters

Building capacity

Providing technical advice to policy makers



IHO/CIESM MoU Renewal, 23 March 2021



- Seabed mapping
- Environmental changes

Facilitating the sharing of research data

The potential of IT tools

'Map the Gaps' Symposium, Monaco, 7-8 November 2023

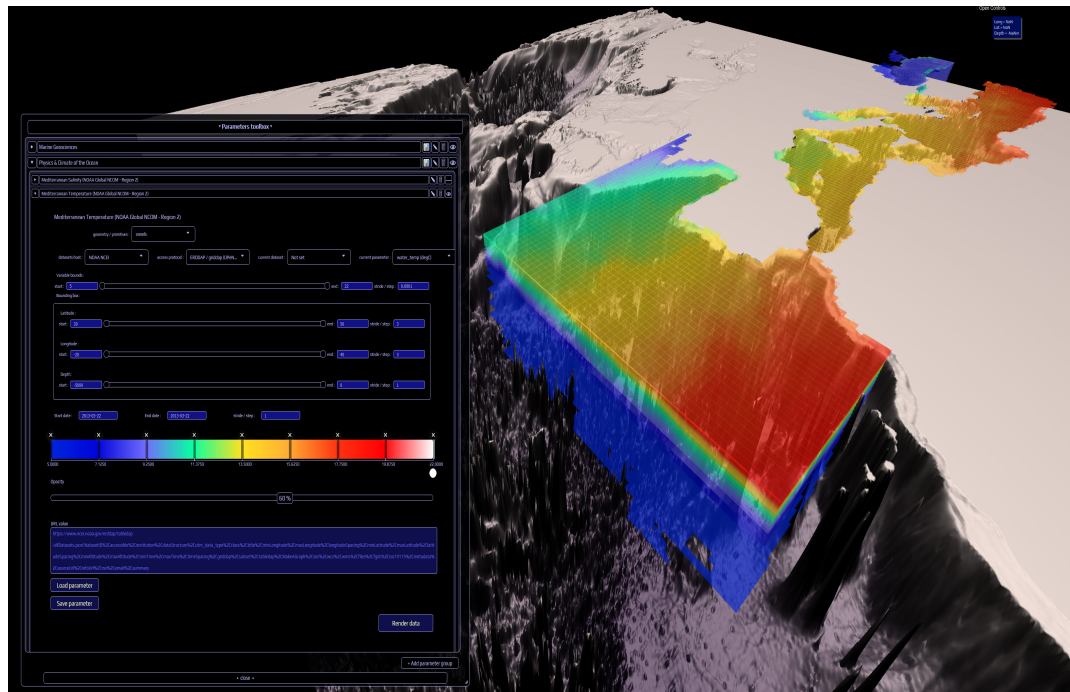


GOLD



BRONZE

Application samples



CIESM prototype presentation at the GEBCO - Map the Gaps annual symposium on bathymetry, Nov. 2023, Monaco.

3D datasets visualization tool letting users query their favorite data hosts (EMODNET, NOAA and many more institutions / laboratories sharing public data).

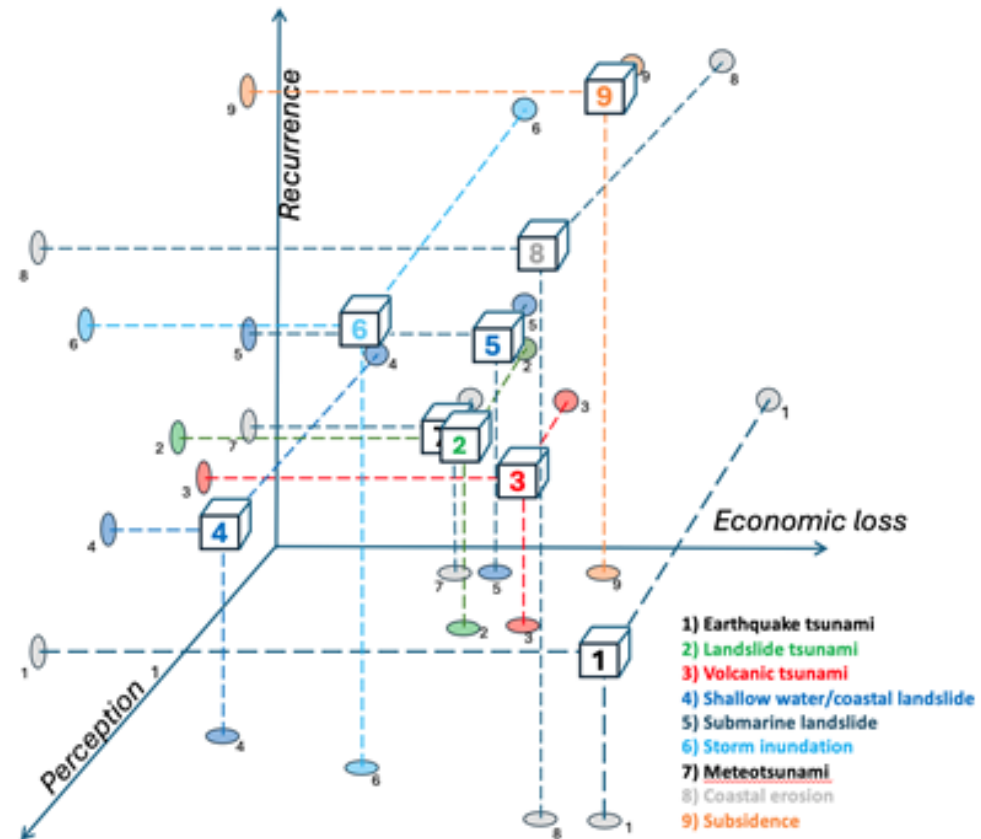
The query results are finally plotted inside a 3D scene graph and drawn in real-time using hardware accelerated features.

CIESM WK52

Marine hazards, coastal vulnerability and risk (mis)perceptions – a Mediterranean perspective



Istanbul, November 2023



More at the next CIESM Congress

(Panel: “Marine Natural Risk perception”, Palermo, 17 Oct. 2024)

Application samples

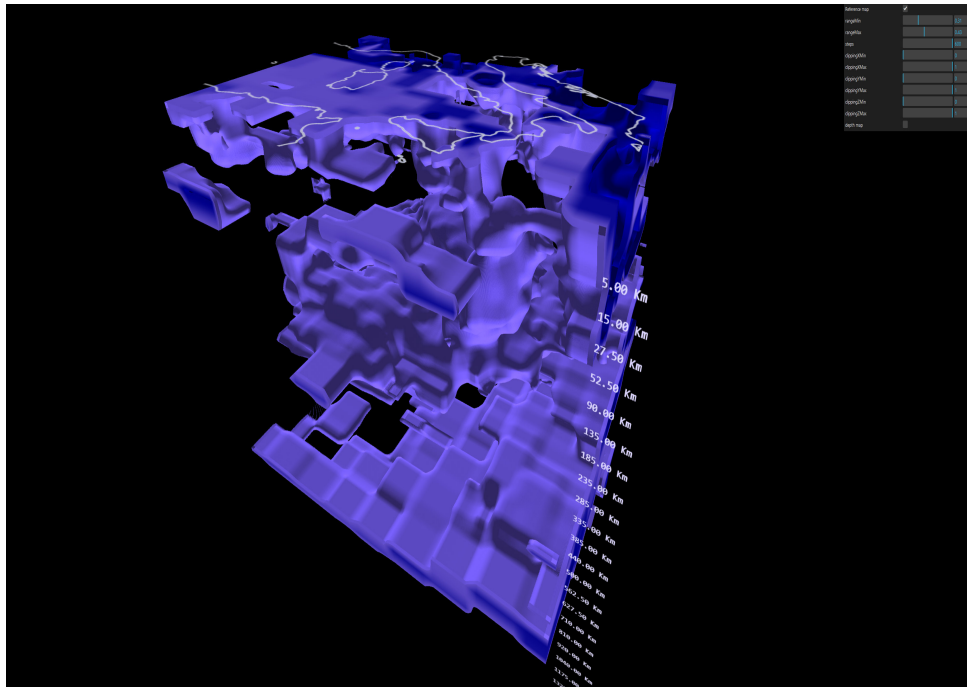


Photo: **Calabrian subduction zones**

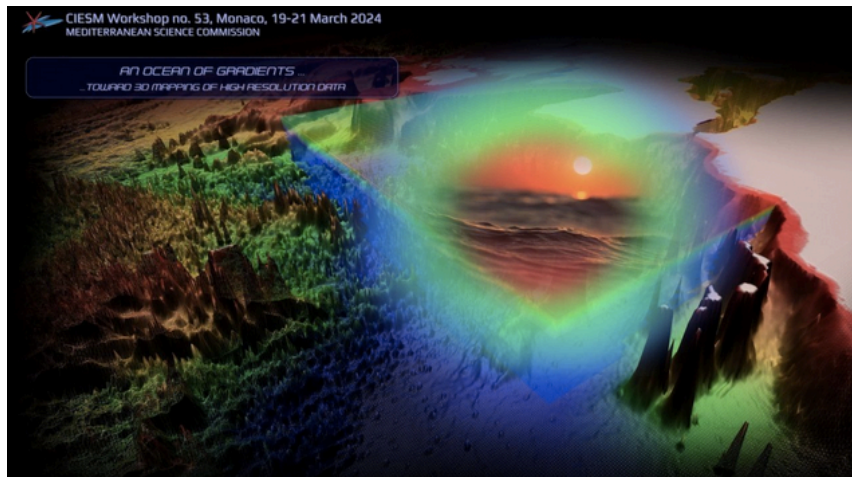
Using Direct Volume Rendering (DVR) from tomographic data (temperature anomalies).

Data provider : Prof. Dr. Wim Spakman

CIESM WK53

An ocean of gradients - toward a 3D mapping of high resolution oceanographic data

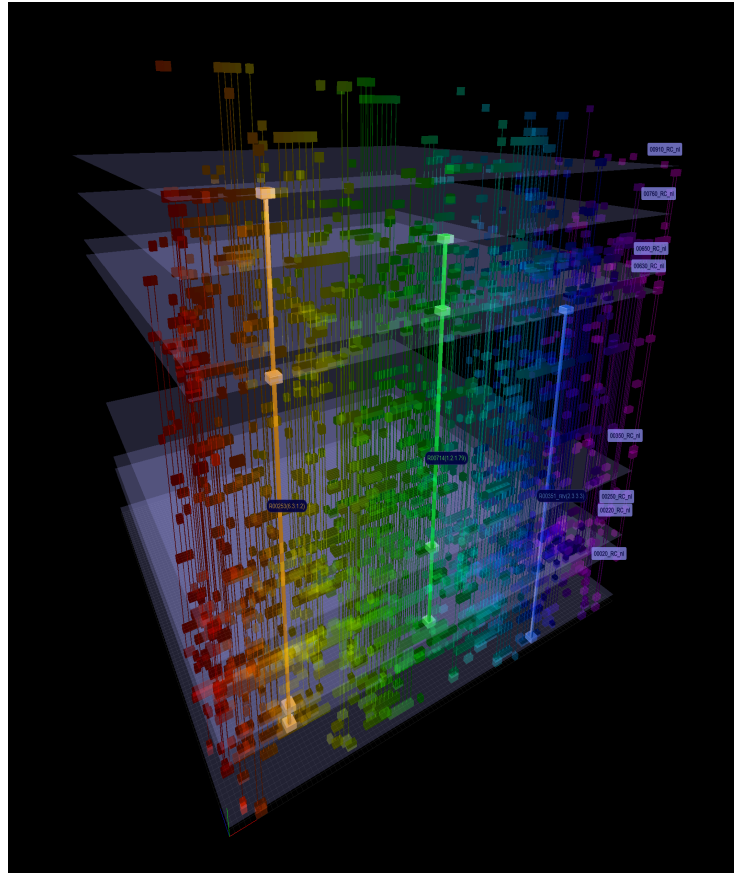
Joint CIESM/IHO/CSM workshop during the Monaco Ocean Week, MC, 19-21 March 2024



More at the next CIESM Congress

(Technical session: "Further development of the IT tool", Palermo, 18 Oct. 2024)

Application samples



Rendering connected pathways and reactions of the whole KEGG database microbial metabolism catalogue.

Image courtesy of CIESM Mar. 2024 53rd Workshop on 3D mapping and visualization of high resolution marine data, Monaco.

NEXT RDV



IHO / CIESM Cross Issues

Scientific sessions:

Committee 'Marine Geosciences',
14 October, 14h30-17h00

Cross-Panel 2:

Public perception of
marine natural risks
17 October, 10h30-13h00

Cross-Panel 3:

Straits, from ancient myths to
renewable energy
18 October, 10h00-12h00

Technical Panel 1:

CIESM 3D visualization of
oceanographic data
18 October, 15h30-17h00