

Decision and Information System for the Coastal waters of Oman (DISCO) -An integrative tool for managing coastal resources under changing climate

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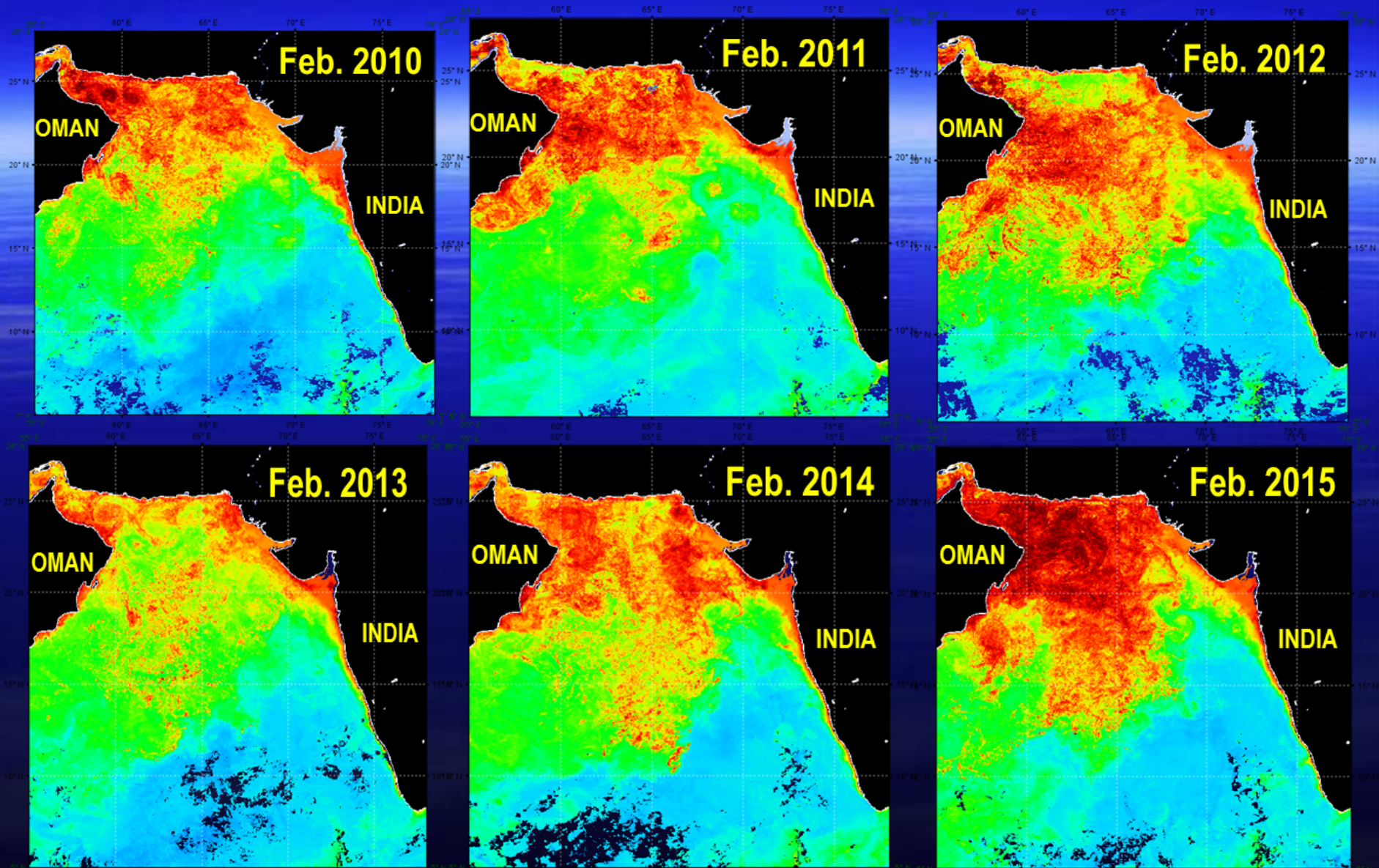
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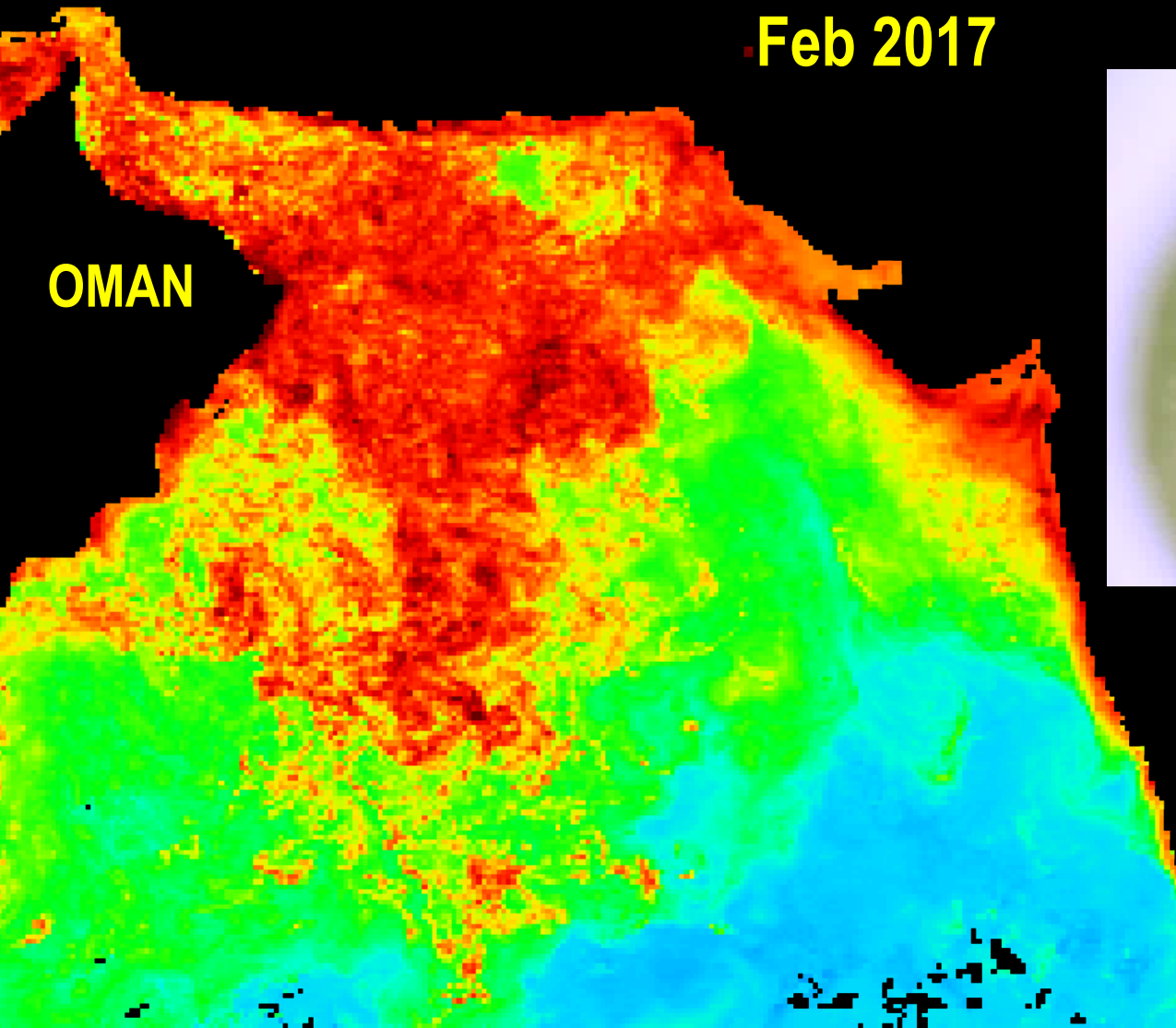
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NASA's MODIS-Aqua monthly composite images of Chl *a* in the Arabian Sea showing the spatial expanse of *Noctiluca* blooms

Feb 2017

OMAN

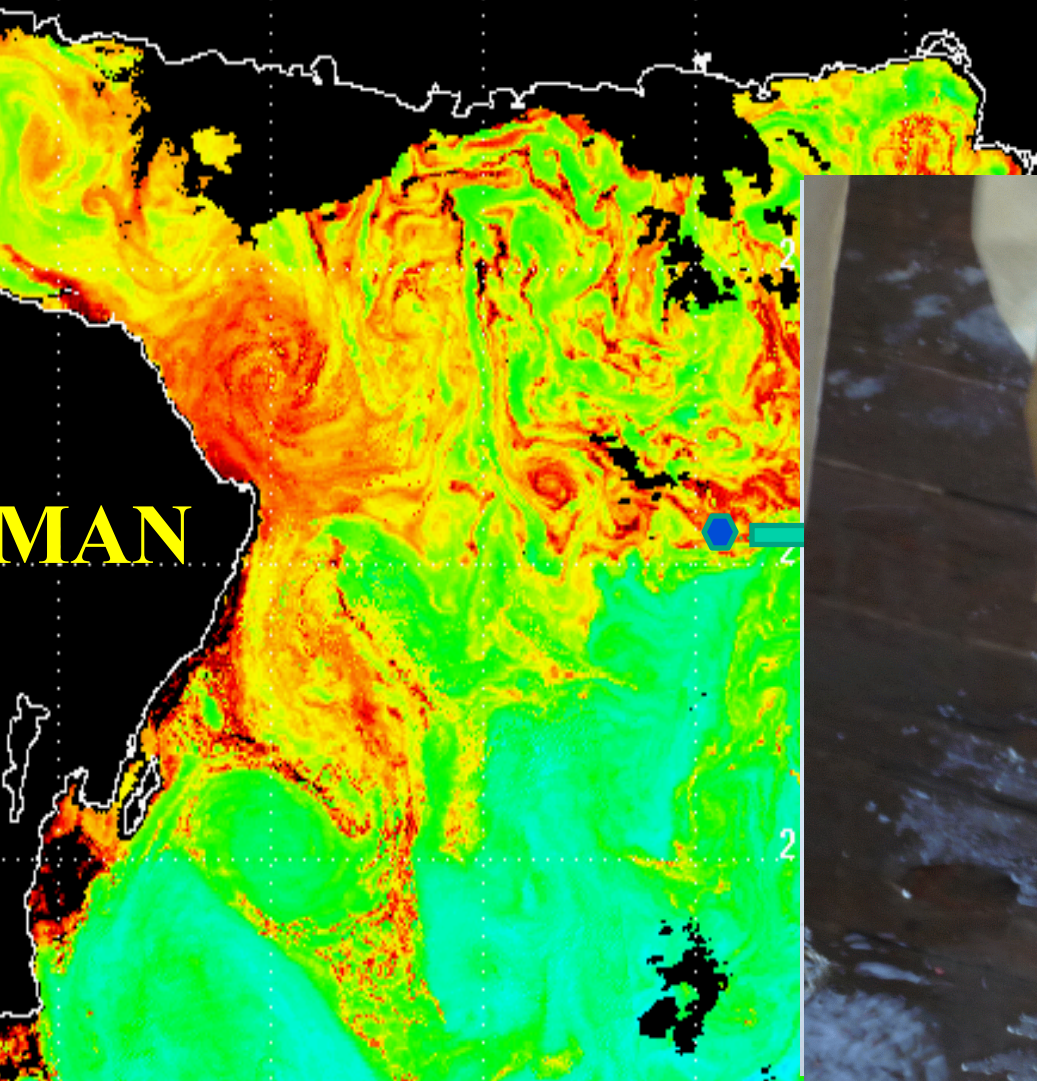


~1000 μm

Noctiluca scintillans with photosynthetic endosymbionts
Protoeuglena noctilucae

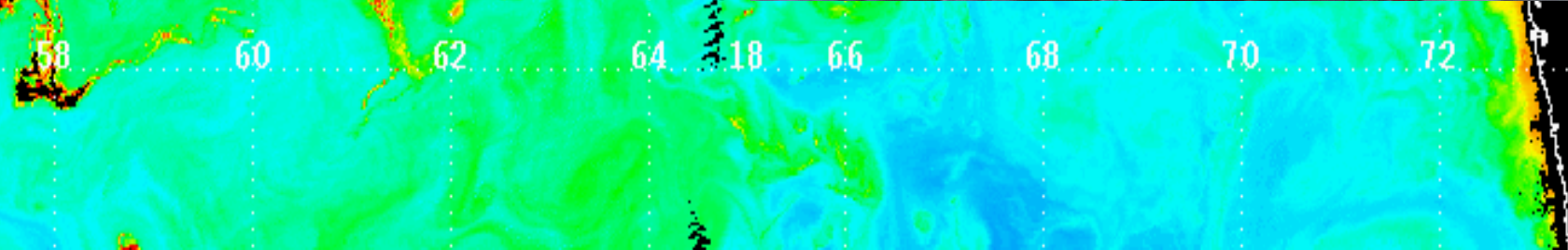
20th Feb 2009

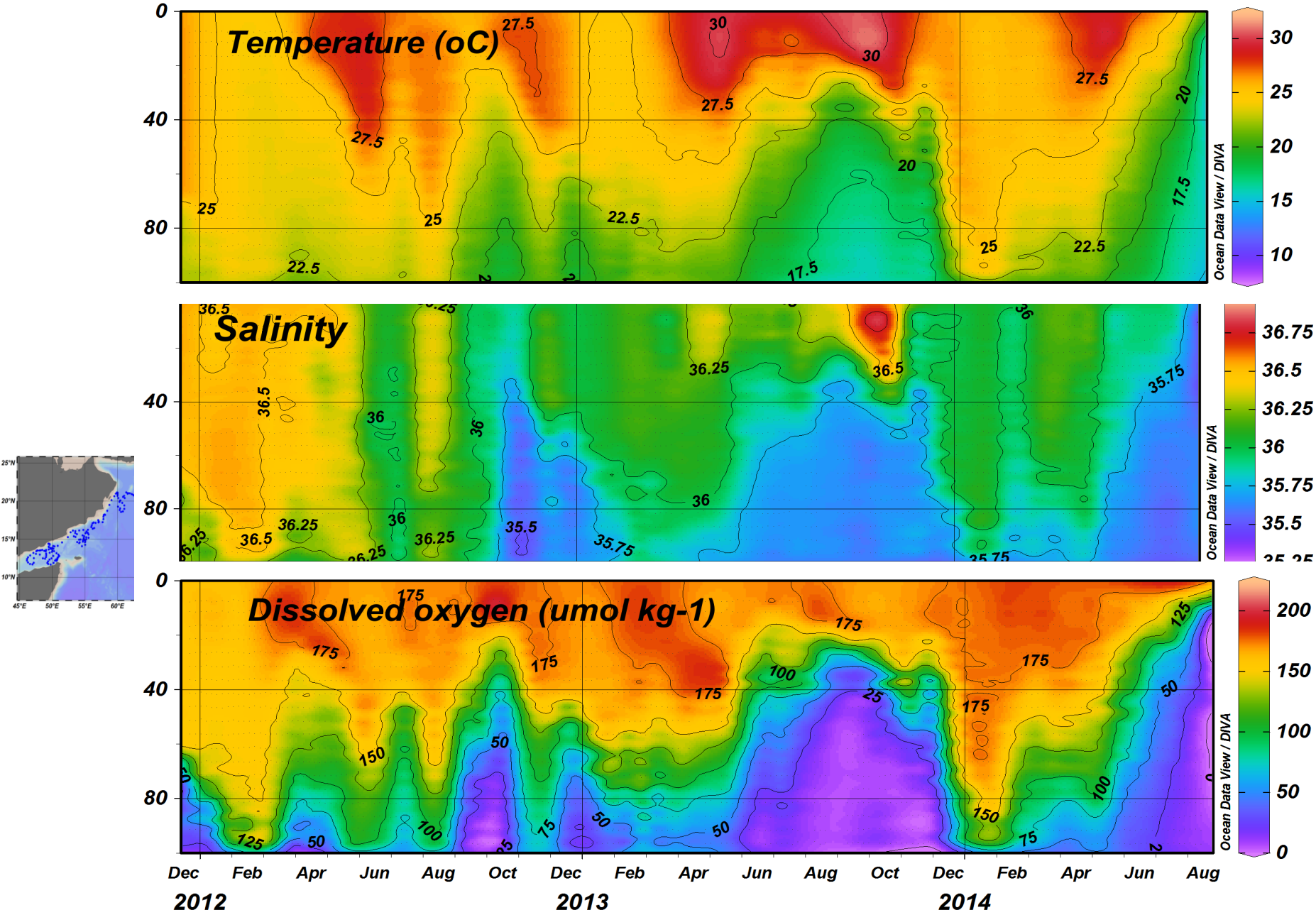
MAN



58 60 62 64 66 68 70 72

INDIA





Upwelling and the activity of eddies are causing the shoaling of hypoxic waters (Data from ARGO float data)



Algae outbreak suffocates thousands of sardines in Oman

Residents of Sidab village teamed up to clean the area before the smell of dead fish spread



Image Credit: Twitter

The sardines had choked to death due to the lack of oxygen in the seawater.

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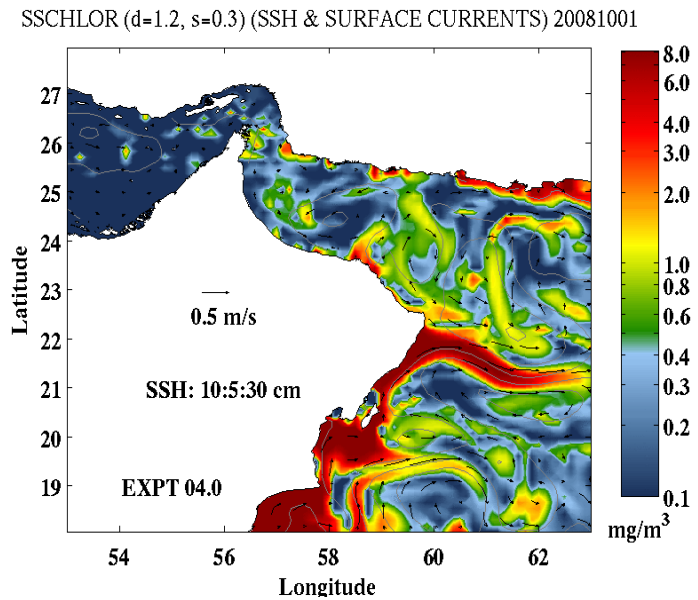
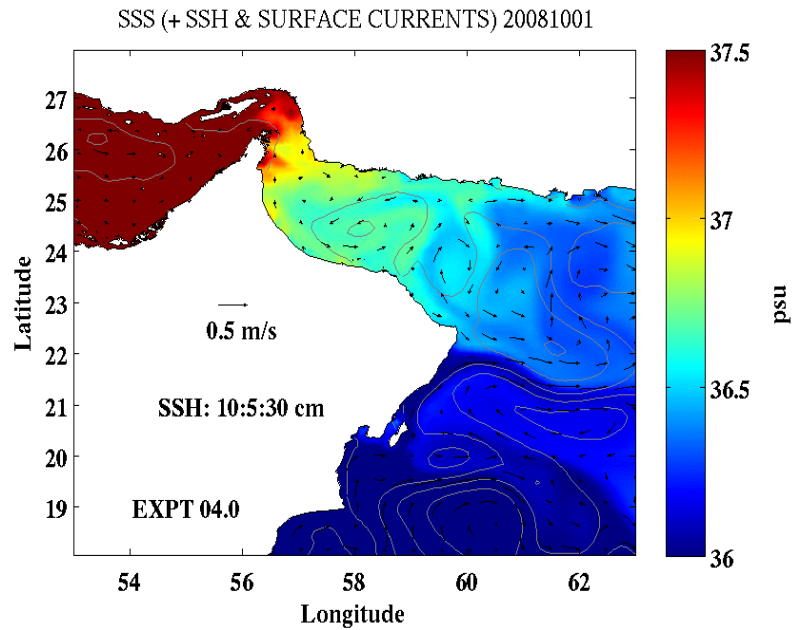
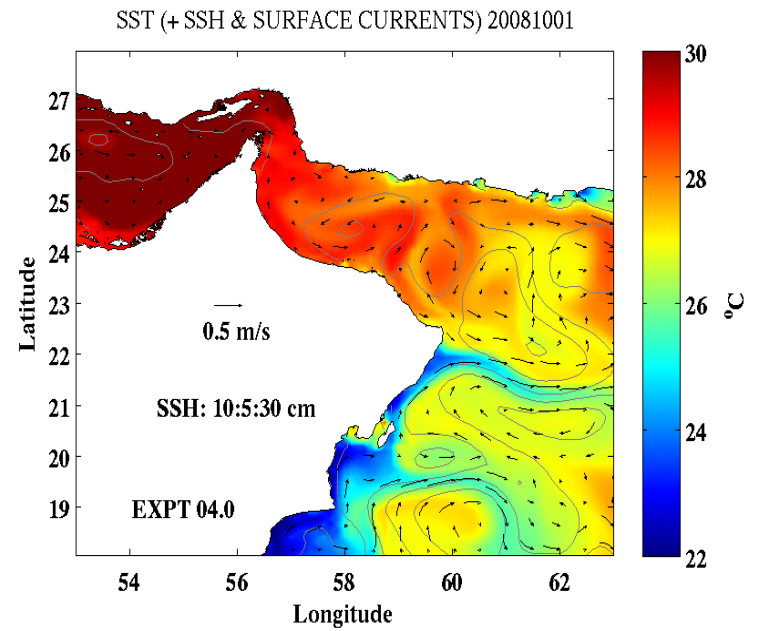
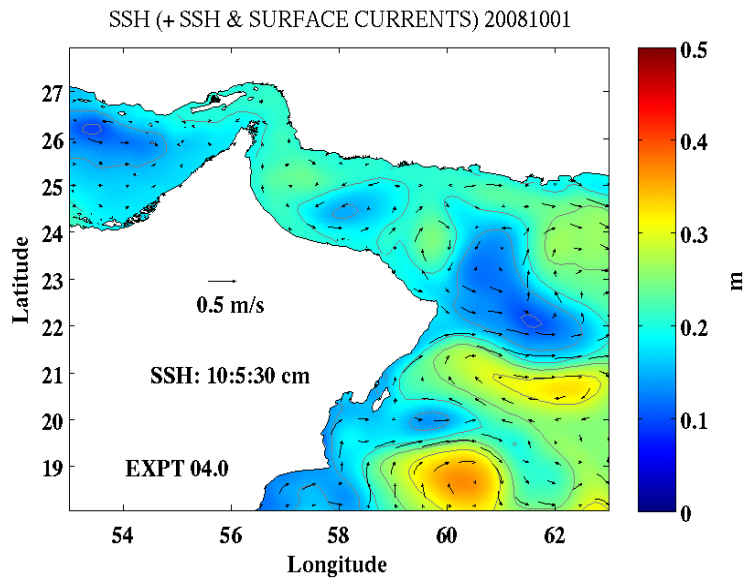
ALSO IN OMAN

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Beaching of sardines off the west coast of India April 2017

*Managing Marine Ecosystems in a Time of Changing
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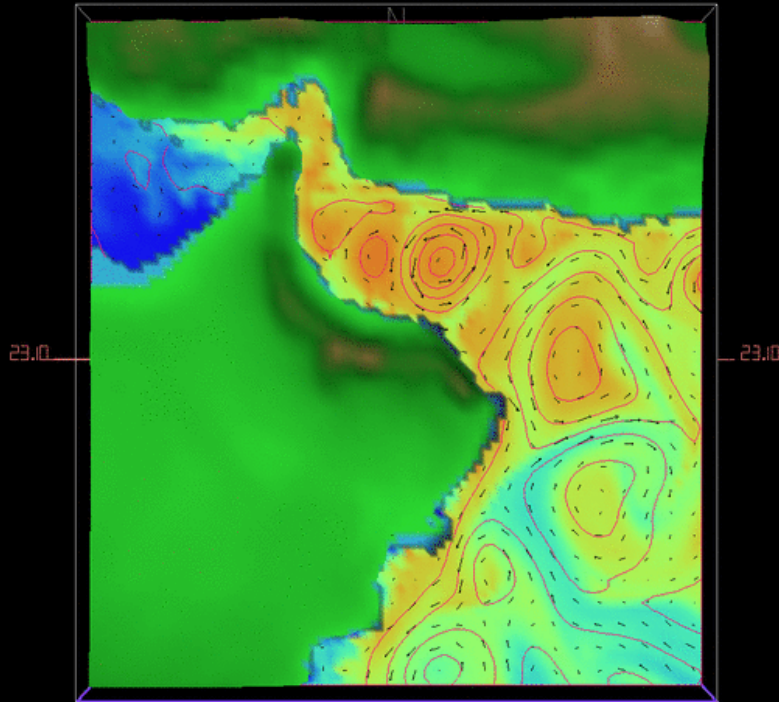
GULF OF OMAN NITRATE & DISSOLVED OXYGEN

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1 of 365

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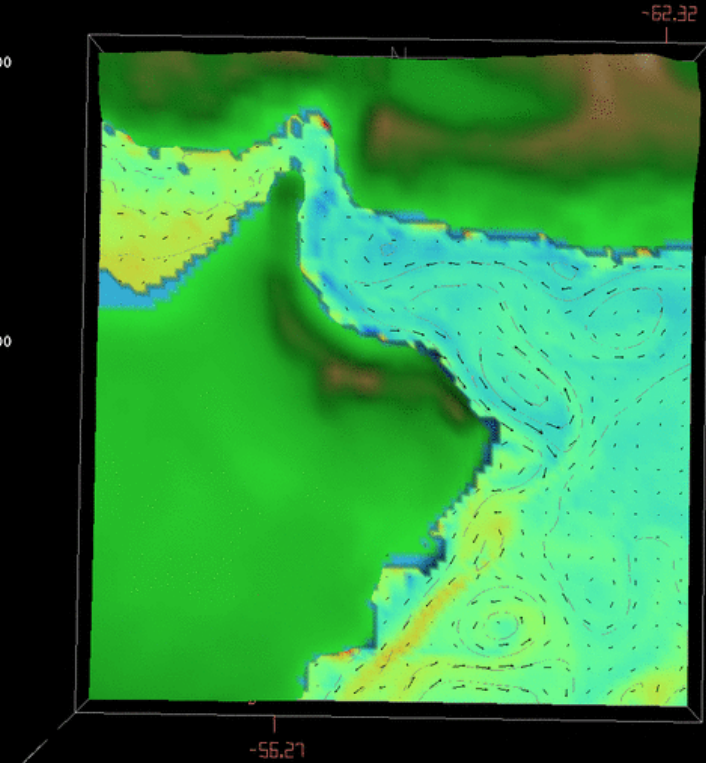
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300.00
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NO₃⁻

Vis

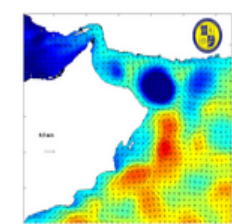
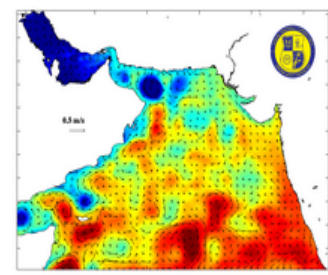
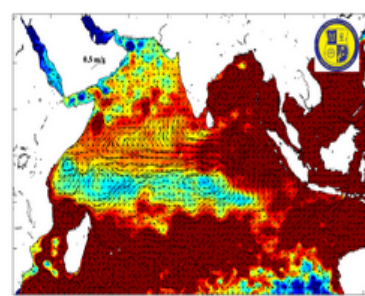
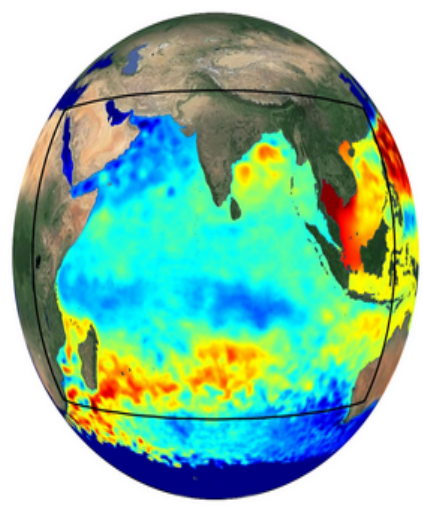


-55.27

Vis5ncDf



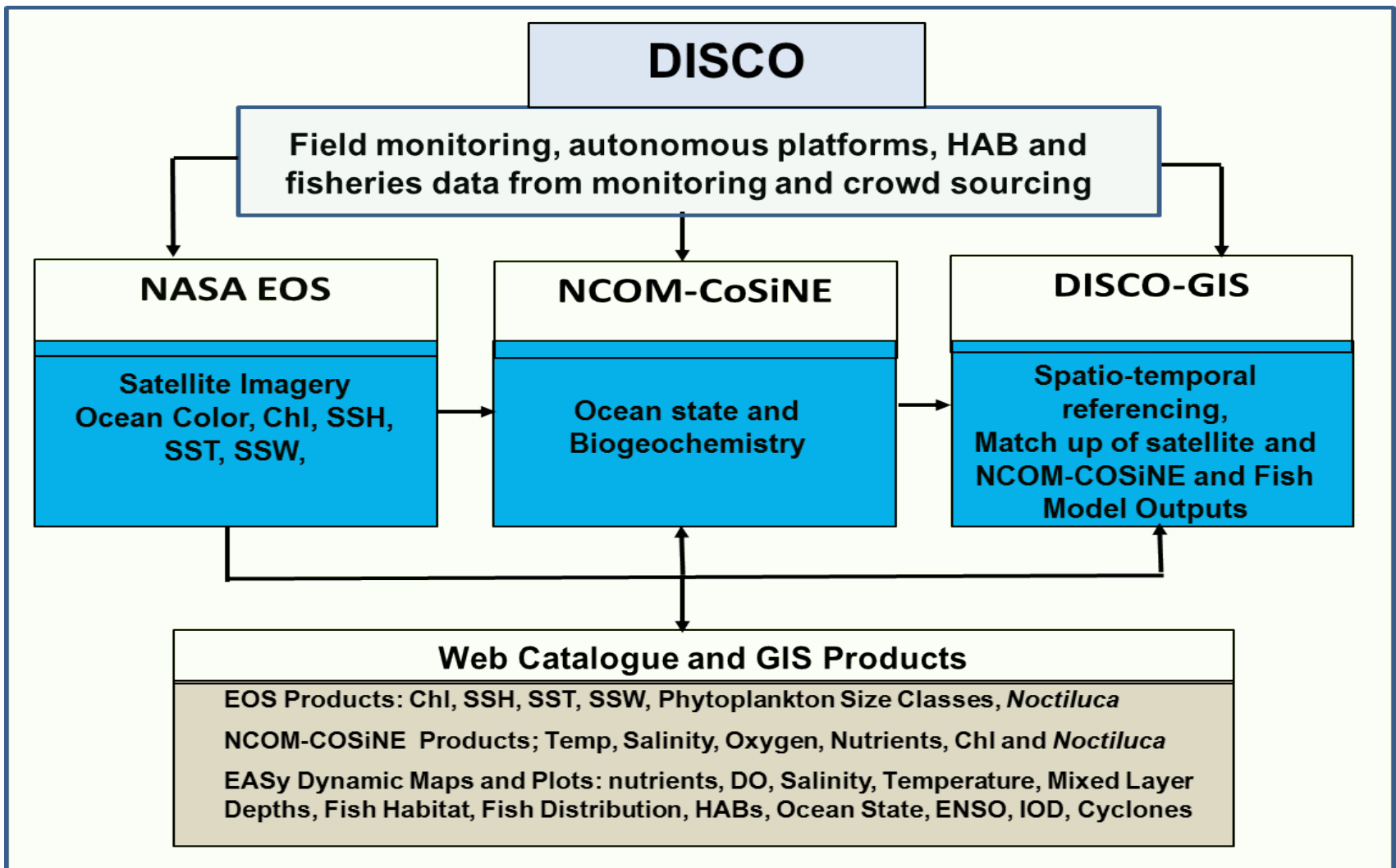
Gulf of Oman REAL TIME FORECASTING SYSTEM



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05/12/2015 00 GMT: Today's nowcast is derived from the NRL Global Operational Forecasting System (GOFS), focusing on the regions of interest (interpolated from the global model) using a Quad-Nested Approach (Global: Indian Ocean: Arabian Sea: Gulf of Oman). Hover over each figure to read a synopsis; click for details and results.

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Components and information flow in DISCO will provide automated downloading of data streams of diverse coastal data, data integration in time and space, and statistical tools and mechanistic models to produce characteristics of essential habitat of fish and other species and dynamic maps of past, present, and future conditions that impact coastal natural and human resources.

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