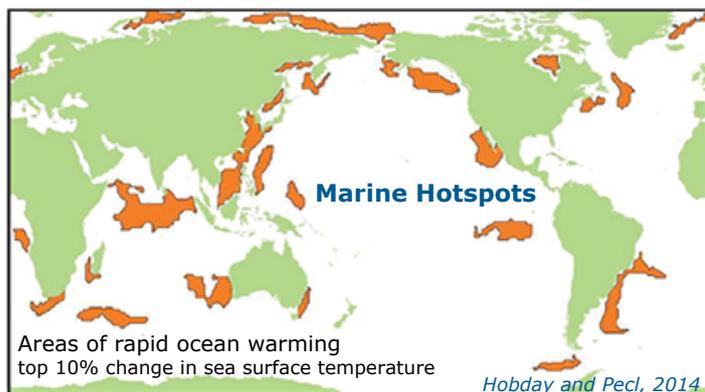


Adapting to a changing ocean

The oceans are not warming evenly. In some fast warming areas the challenges will be felt earlier and more acutely. One such 'hotspot' covers the seas south and west of Madagascar.

There are no simple solutions for adapting to climate change. Finding appropriate options requires scientific understanding on a global scale, regional expertise, detailed information about the hotspot area, and local understanding of social and environmental contexts.



Workshop aims

GLORIA aims to consolidate scientific and traditional understanding of change to ecosystems and their services, through the development and sharing of techniques, knowledge and successful approaches between Madagascar and other marine hotspot regions. The Madagascar workshop is central to this research.

Workshop participants will explore adaptive solutions and develop recommendations for future action to minimize climate change impacts on low-income communities dependent on fisheries.

Building on the approaches from the workshop the research also aims to inform climate change adaptation efforts elsewhere in the Western Indian Ocean and other regions where similar marine-dependent communities are also affected by rapid warming of adjacent seas.

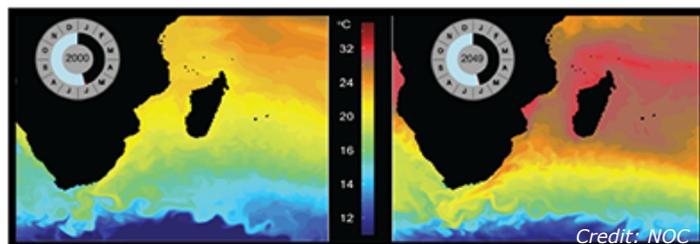


Workshop activities

To share existing knowledge and facilitate discussions of adaptation options, the workshop consists of eight key activities, each with its own objectives and designed for different stakeholders. Synthesis of these activities will outlined at the workshop to be completed in the following months.

Climate change projections

This activity will inform stakeholders about recent advances in climate change modelling for the region, present the most recent projections of key ocean characteristics, and assist other groups by providing climate-relevant information. It is aimed mainly at higher-level policy makers and local scientists.



Ecological sensitivity assessment

This aims to highlight species and fisheries that may be most vulnerable to climate change.

The activity is most relevant to managers, local scientists and community leaders.

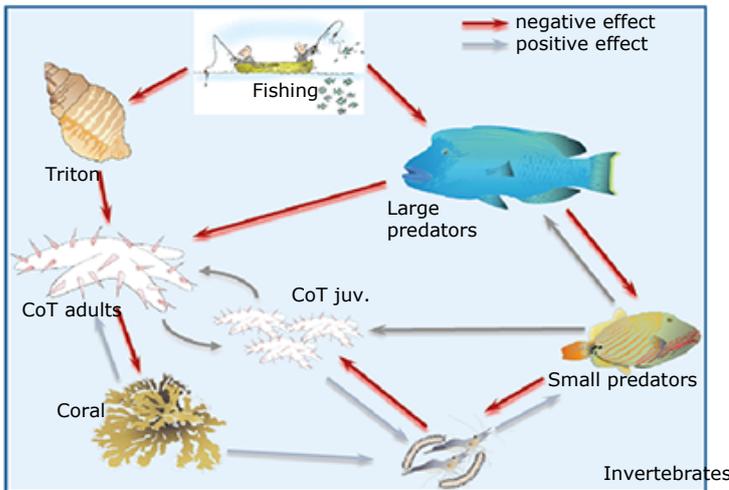




Credit: Garth Cripps 2015, Blue Ventures

Identifying key ecological assets, processes and drivers

This will focus on simple, practical approaches. The aim is to provide an overview of current ecosystem modelling and collaboratively develop conceptual models of the system. Participation by managers, ecologists, biologists and fisheries scientists is important for capturing interactions between components in the models.



Example model of crown of thorns starfish, coral and predators

Interaction between climate change adaptation, local cultures and participation in fishing

The aim is to determine perceptions of risks to livelihoods, to identify current and potential coping strategies, and to find alternatives to fishing where this is necessary and appropriate. Participation by community leaders, managers, social scientists and fisheries managers is important for capturing key interactions.



Credit: IH.SM

Marine resource supply chains

This activity will analyse important supply chains to identify vulnerabilities and strengths. Managers, community leaders, representatives

of fishing and processing industries, fisheries scientists and economists will collaboratively develop adaptation options.



Credit: Garth Cripps 2015, Blue Ventures

Engagement with local communities

The activity is centred on understanding the dynamics of poverty and the characteristics of poverty in coastal communities. Community leaders, managers, social scientists, and fisheries managers, will work together using GIS and technical tools to analyse the dynamics and characteristics of poverty.

Capacity development

Participants will work with open source software to capture and map spatial information about communities and resources. As time is short, this is likely to be combined with the community engagement activity above.



Credit: WWF MDCO

Education and outreach

The activity will provide tools that can strengthen awareness and knowledge of the oceans through effective teaching. The resources are aimed at teachers and educators, NGO's, after school programmes, etc. and may easily be adapted to local conditions in order to promote engagement and concern with the state of the ocean.

For information about how to participate please contact Kevern Cochrane:

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