



# An global perspective on MPAs and update on WCPA – Marine activities, spring 2009



### **Dan Laffoley**

IUCN WCPA Vice Chair – Marine

Chief Scientist's Team, Natural England, UK

Sponsored by

New Caledonia marine World Heritage Site

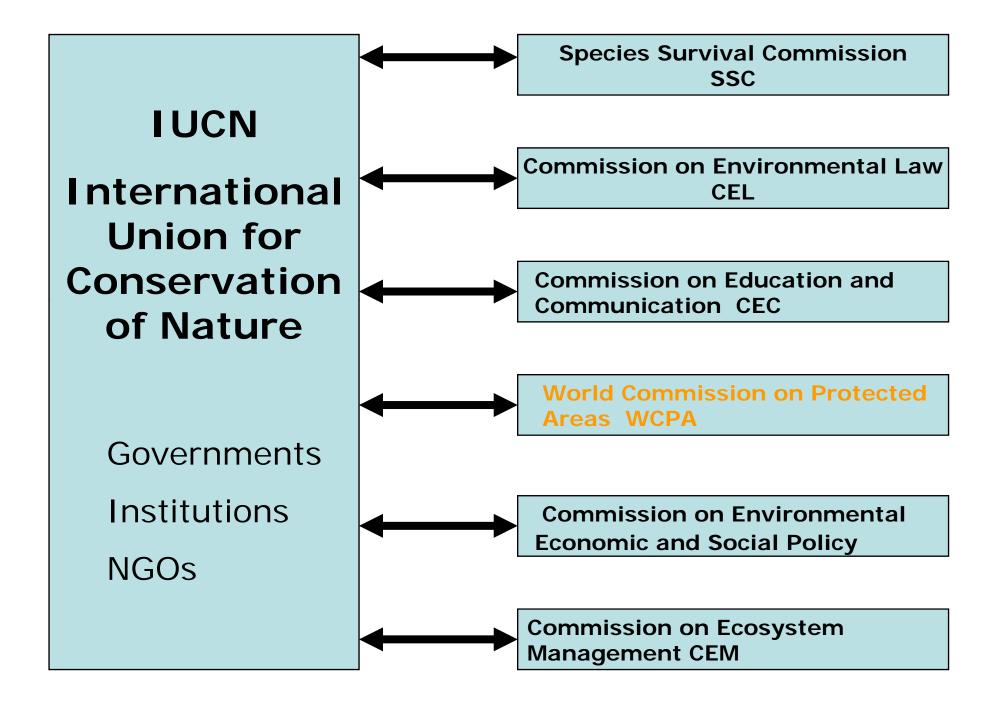
WCPA – Marine update, Spring, 2009



# IUCN vision and mission



- A just world that values and conserves nature.
- To influence, encourage and assist societies throughout the world to conserve the integrity and diversity of nature and to ensure that any use of natural resources is equitable and ecologically sustainable.







## WCPA – Marine focus on:

- The challenges
- The programme
- The latest products
- The next steps

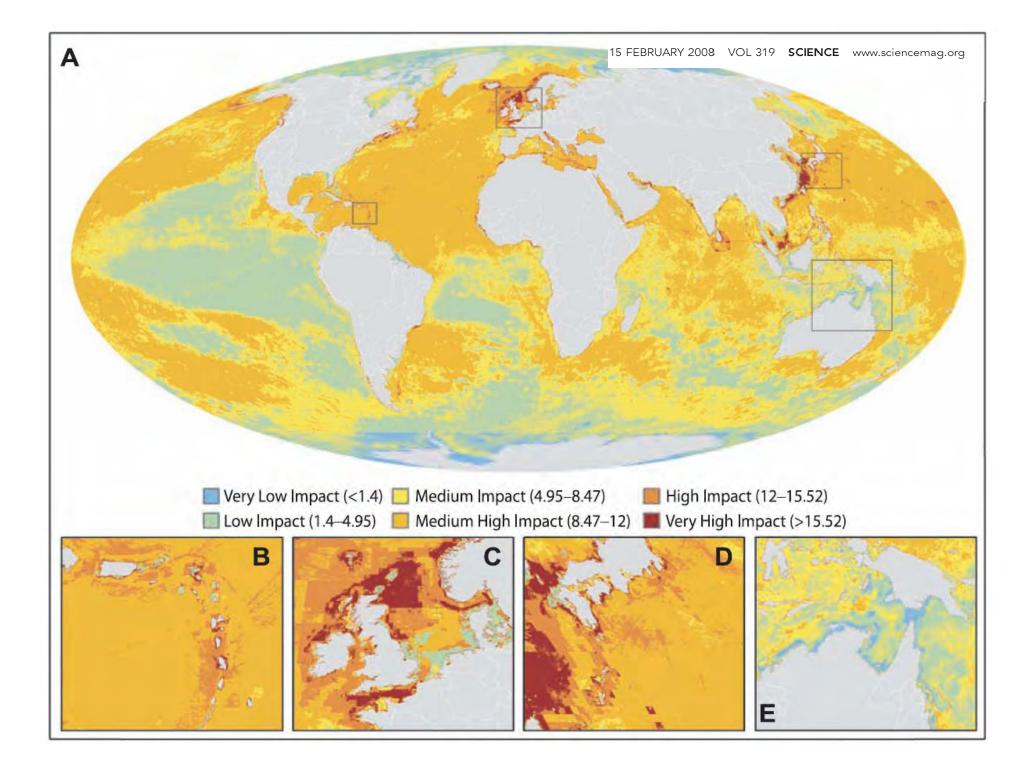


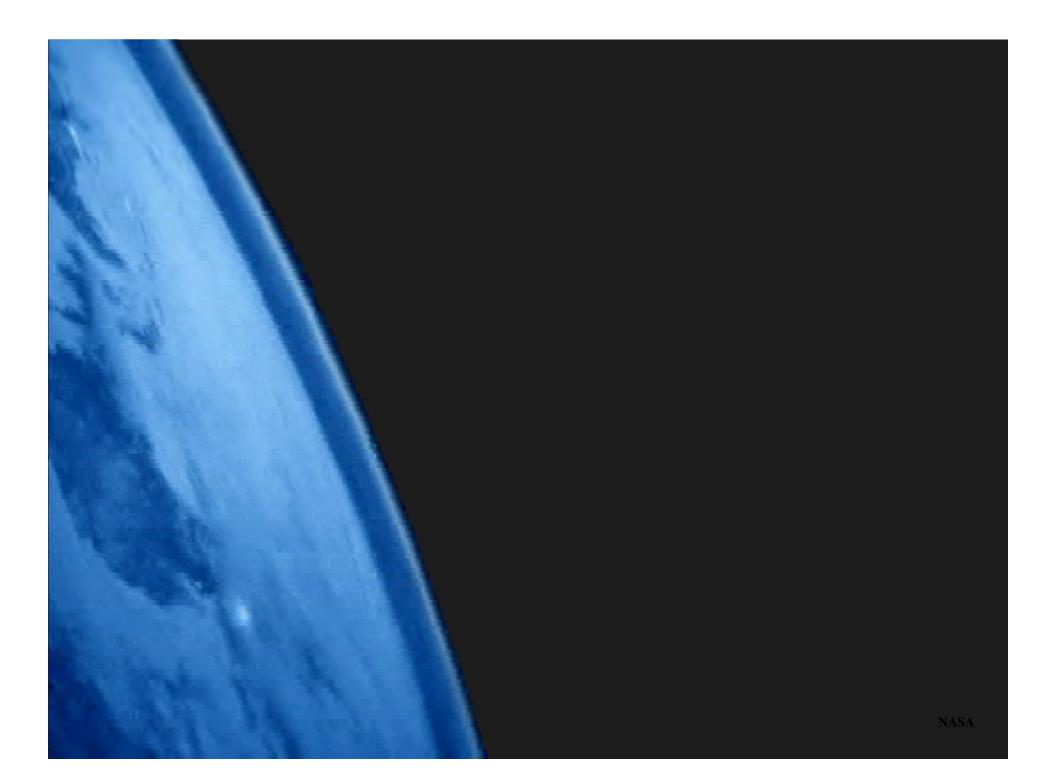




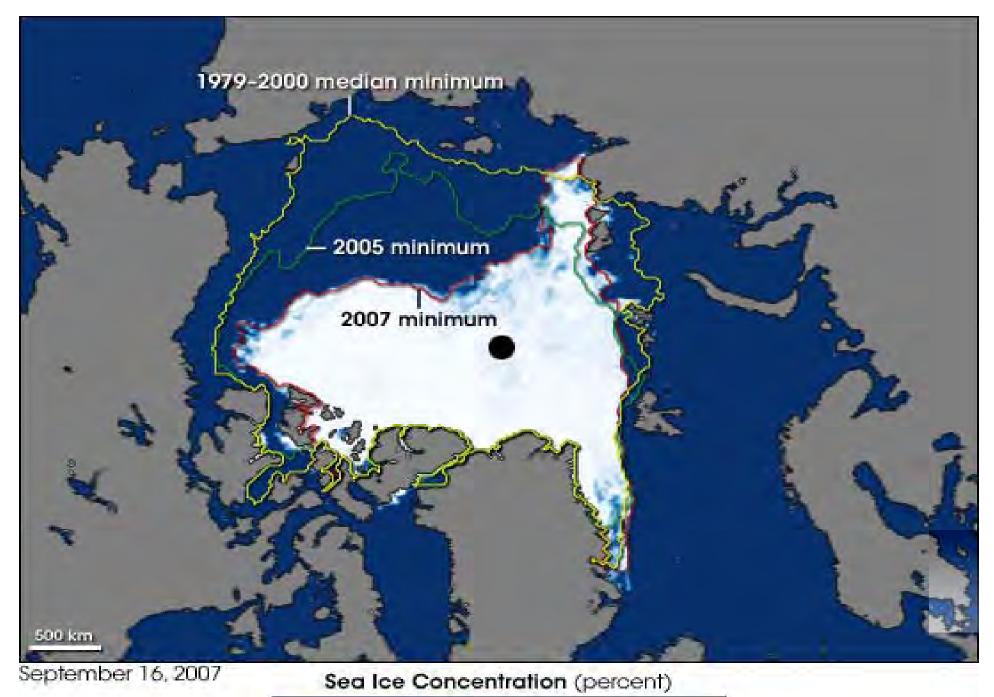
Image: Gerry Allen/Cl

An epaulette shark (*Hemiscyillum freycineti*), believed to be a new species. They spend most of their time on the sea floor looking for crustaceans and molluscs.



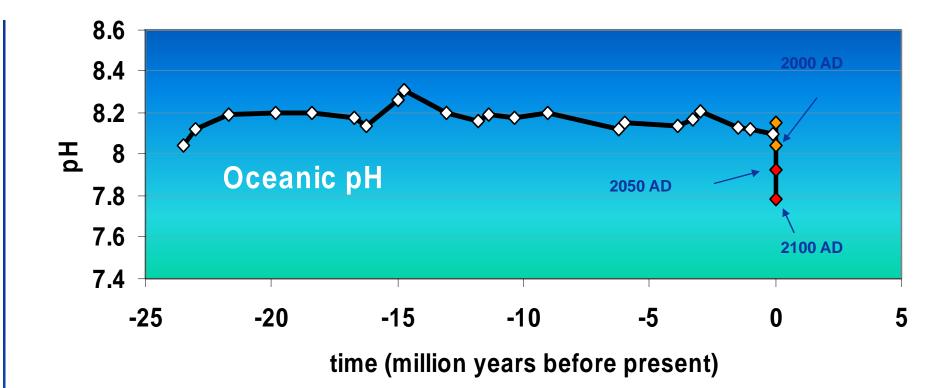


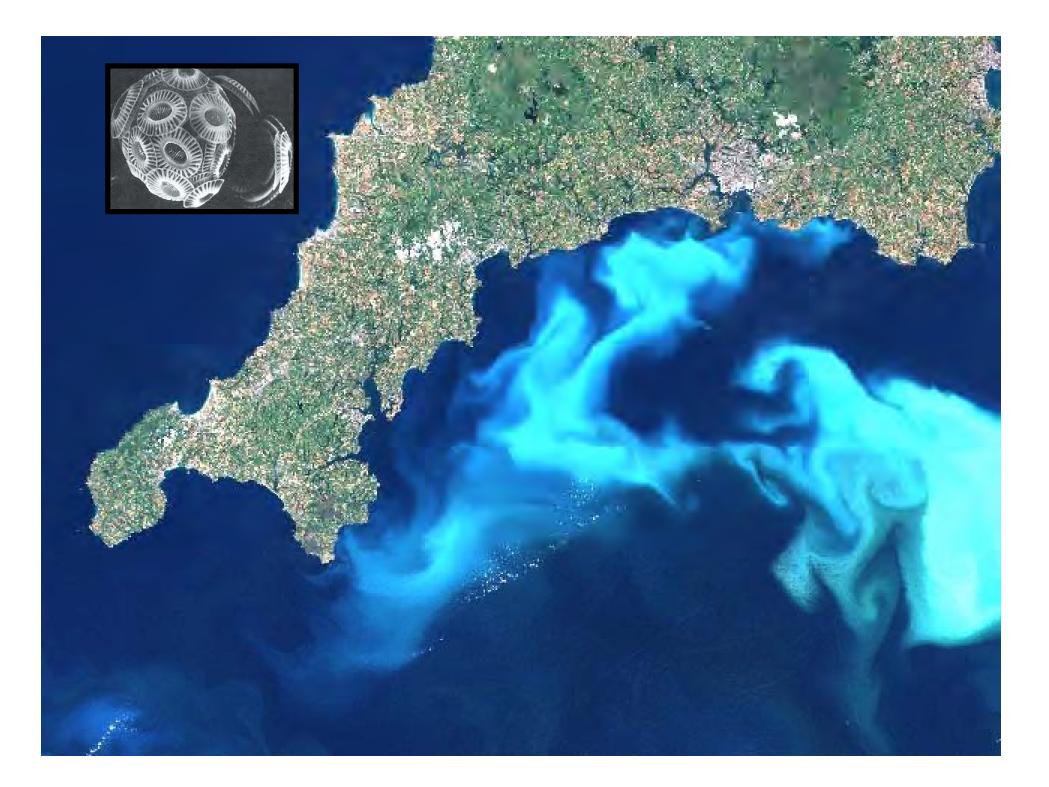






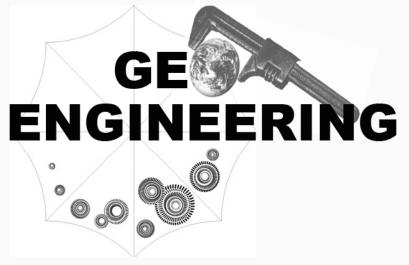
#### **Ocean Acidification over time**







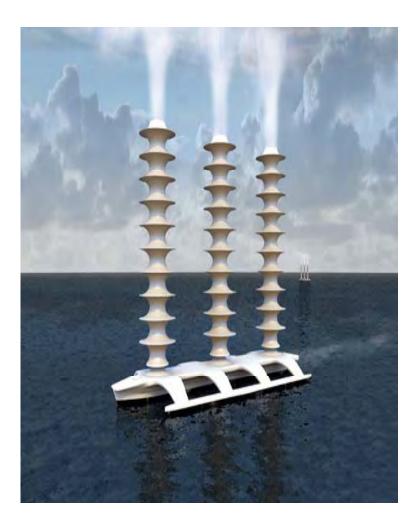




## or.....Plan B!





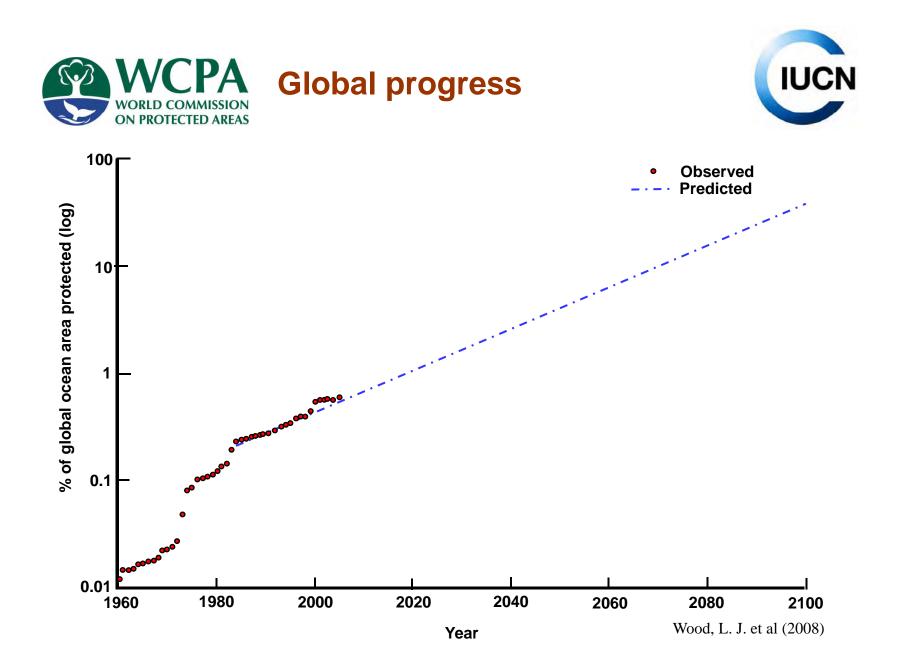


WAVE DRIVEN OCEAN UPWELLING SYSTEM		
-		
	Biologically Sequence CO2 Balance Ocean Fisheries	- SU FEET
	Reduce Harvienne Intensity Cool Coral Reek	- 200 FEET
	Mitigate Ocean Dead Zones Help Maintain North Atlantic	- 350 FEET
1 1 1	Overturning Circulation	- 500 FEET
	Moderate Long-Term Ocean Acidification	- 650 FEET



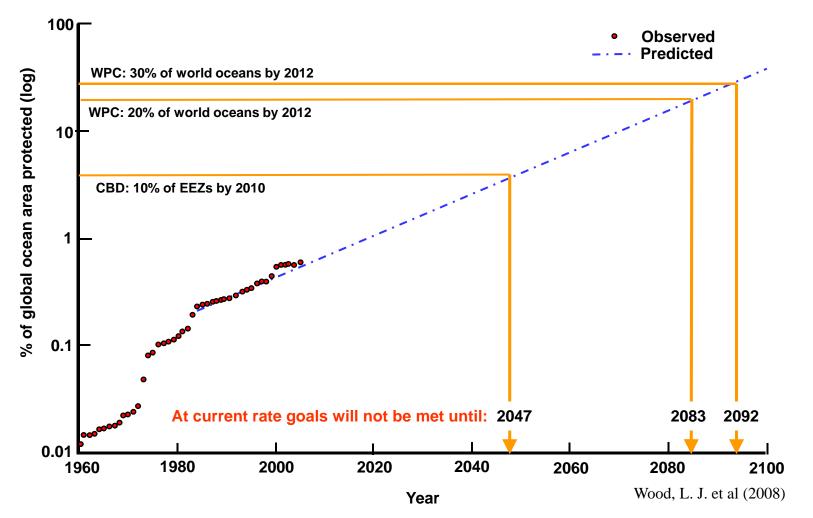


Signing of the political declaration at the close of the Summit









#### Total water

Total fresh water Glaciers & ice caps Groundwater Permafrost

About this KML

Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image © 2009 TerraMetrics Image © 2009 DigitalGlobe

geographical visualization created by David Tryse

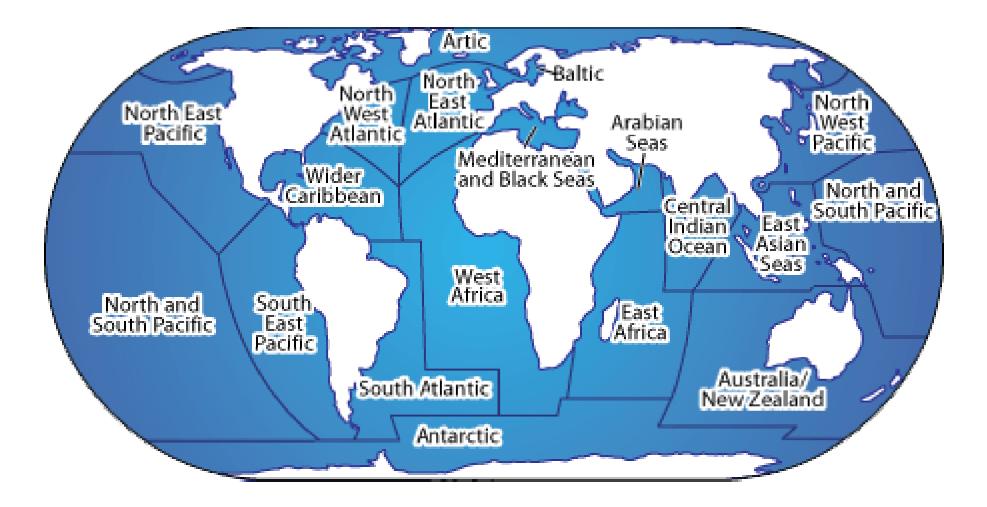
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«2009 Google



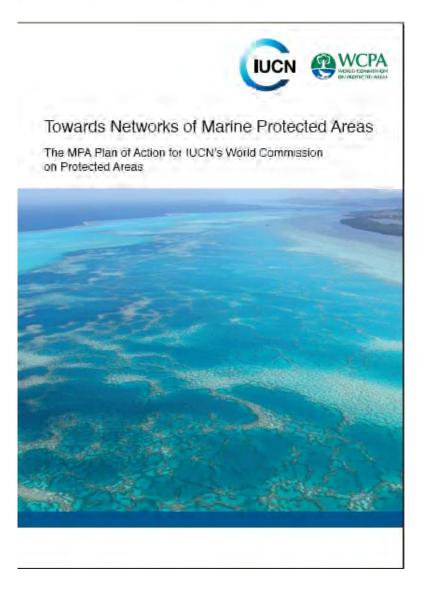




















- Better data and maps
- Greater scale of protection
- Greater understanding of progress
- High Seas a priority
- Marine World Heritage a priority
- Global-regional-local networking a priority
- Capturing and sharing best practice a priority
- Visibility of current protection a priority
- Citizen engagement a priority political commitment
- Web-based support





- Accelerating progress in achieving the Global MPA Agenda
- Encouraging, developing and sharing solutions for creating and managing MPAs and MPA networks
- Increasing visibility, understanding and awareness of MPAs and MPA networks





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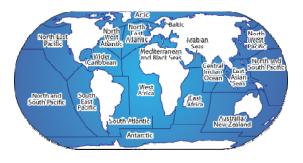






## **Focus of the PPO Reviews**

- > What's MPAs are there?
- > What's missing?
- What's new?



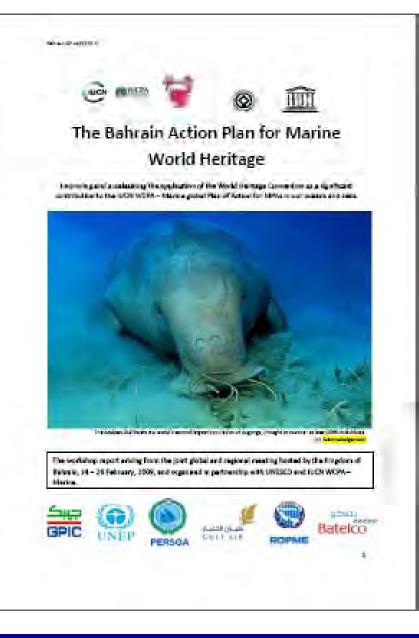
- > What are the challenges?
- > What are the priorities?

First review will focus on the Mediterranean

## High Seas Gems: Hidden Treasures of Our Blue Earth









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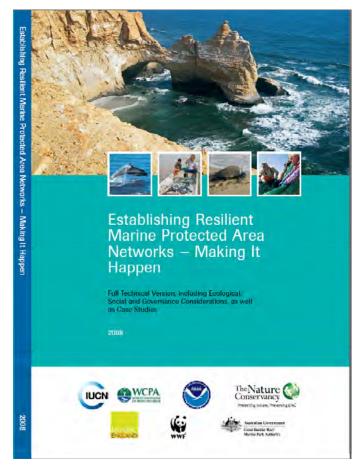


- Accelerating progress in achieving the Global MPA Agenda
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- Accelerating progress in achieving the Global MPA Agenda
- Encouraging, developing and sharing solutions for creating and managing MPAs and MPA networks
- Increasing visibility, understanding and awareness of MPAs and MPA networks







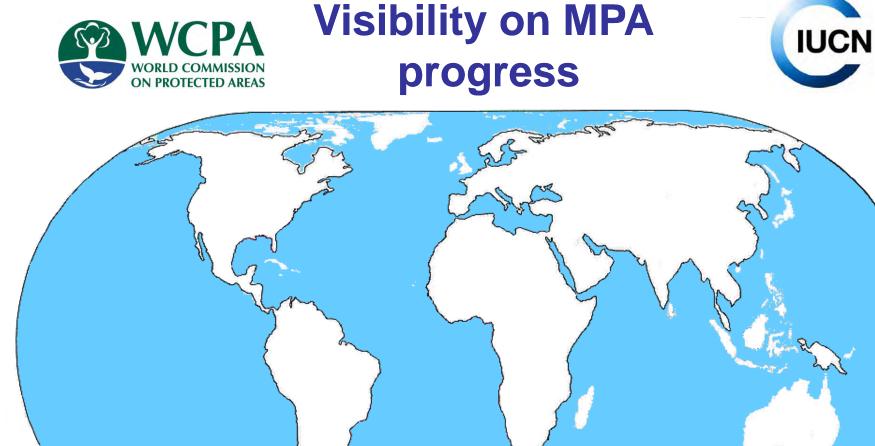
Changing the public's perception:

- A blue ocean invisible 'life'
- Much of it is protected (30% - 40%!)
- Not sure where protection is (?Barrier Reef)



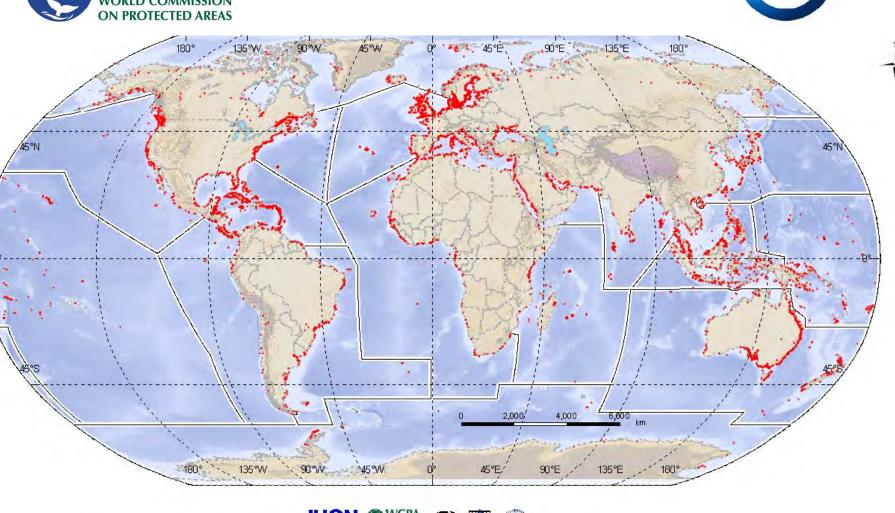
"I don't know why I don't care about the bottom of the ocean, but I don't."

No idea of scale



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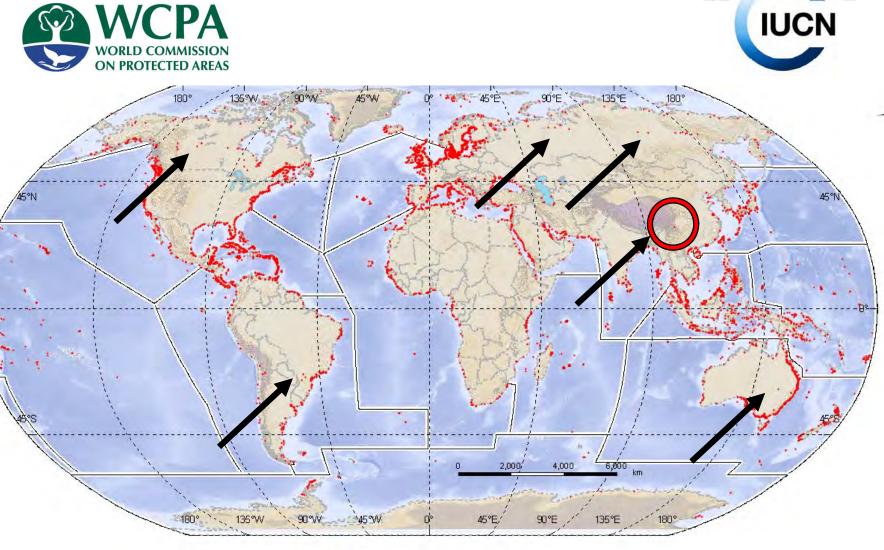




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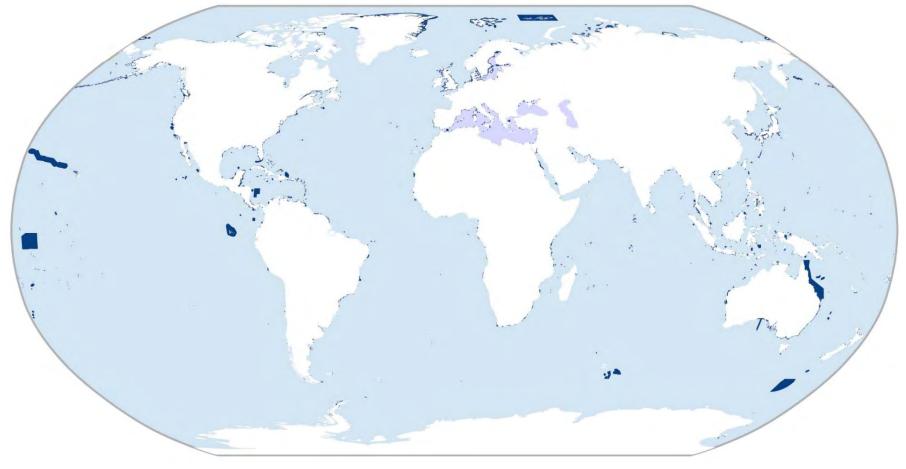
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## All MPAs designated by mid-2008



## 4400 MPAs, 2.35 million km<sup>2</sup>, 0.65% of oceans



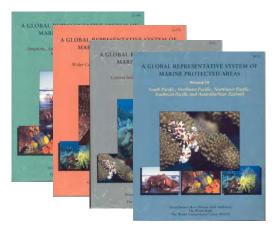
Source:Wood, L. J., Fish, L., Laughren, J. & Pauly, D. 2008. Oryx 42(3): 340-351

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## **Communicating Oceans & MPAs**





Better data

Better decision making

A public good

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©2009Google" Eve all 10609.24 mi

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Image @ 2009 TerraMetrics

2°35'42.05" N 68°40'52.69" W



Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image © 2009 DigitalGlobe Image © 2009 TerraMetrics

3"19'31.10" N 99'40'09.48" W



©2009 Google

Eye alt 10609.24 mi

3"57'40.08" N 140"38'04.28" W



©2009Google"

7°27'30.75" N 160°18'31.50" W

Eye alt 10844.02 mi



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8

Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image © 2009 TerraMetrics Data © 2009 MIRC/JHA

5"52'52.74" N 165"02'39.46" E



©2009 Google" Eye alt 10844.02 mi

15°06'54.72" S 109"21'26.56" E

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Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image © 2009 TerraMetrics

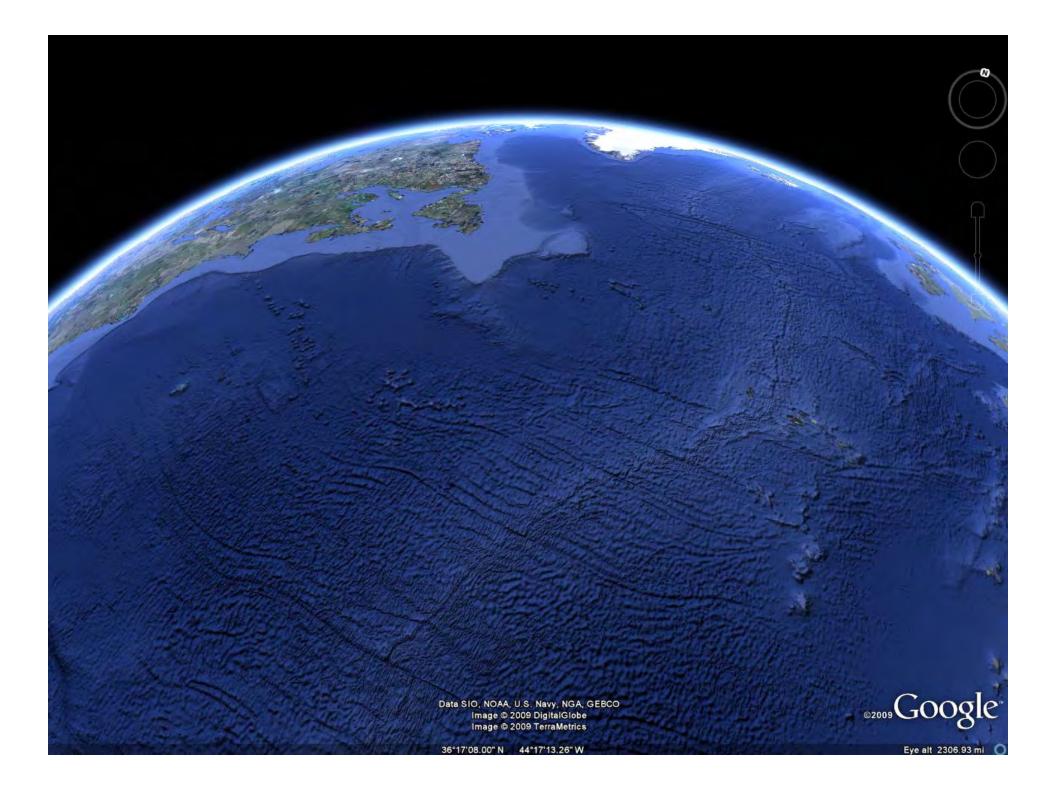
10°26'08.23" S 104°01'53.67" E

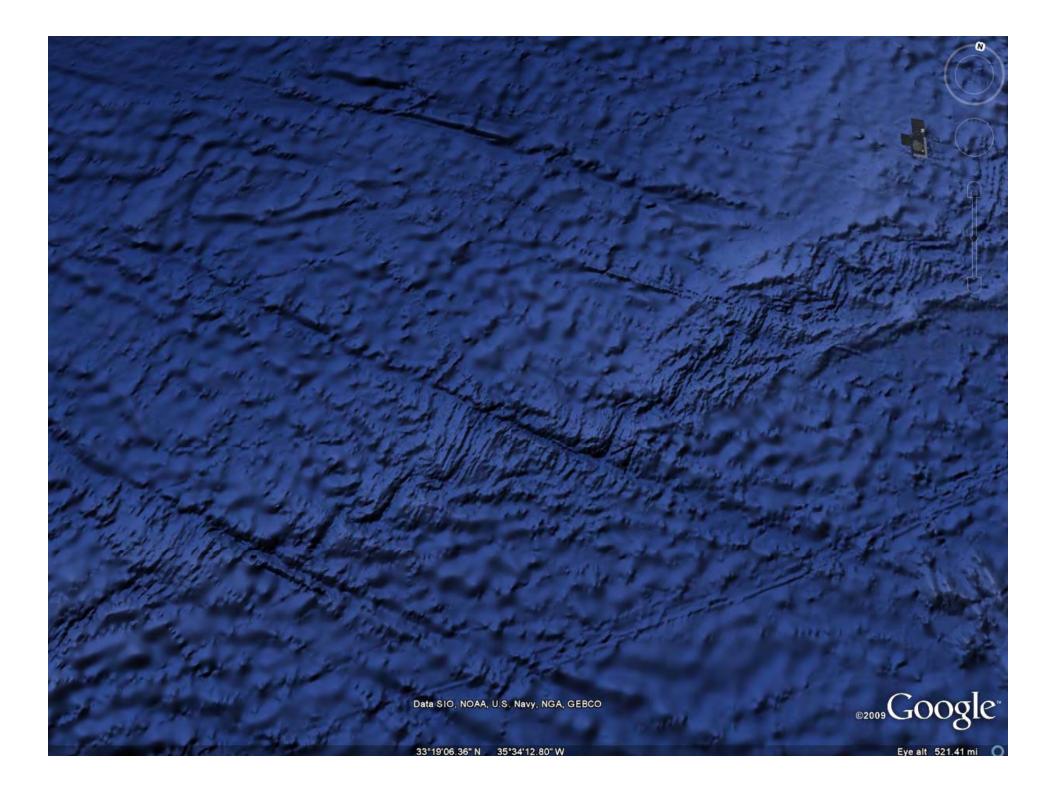


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Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image © 2009 TerraMetrics

32°23'46.80" N 92°25'58.32" E









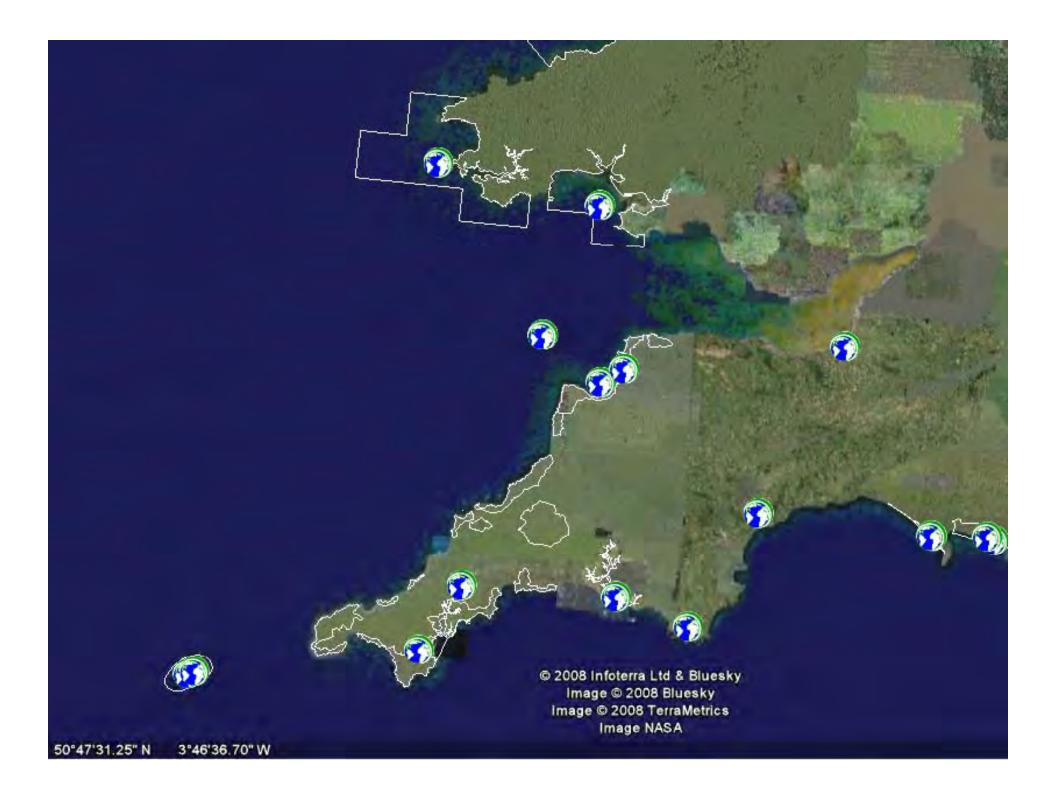
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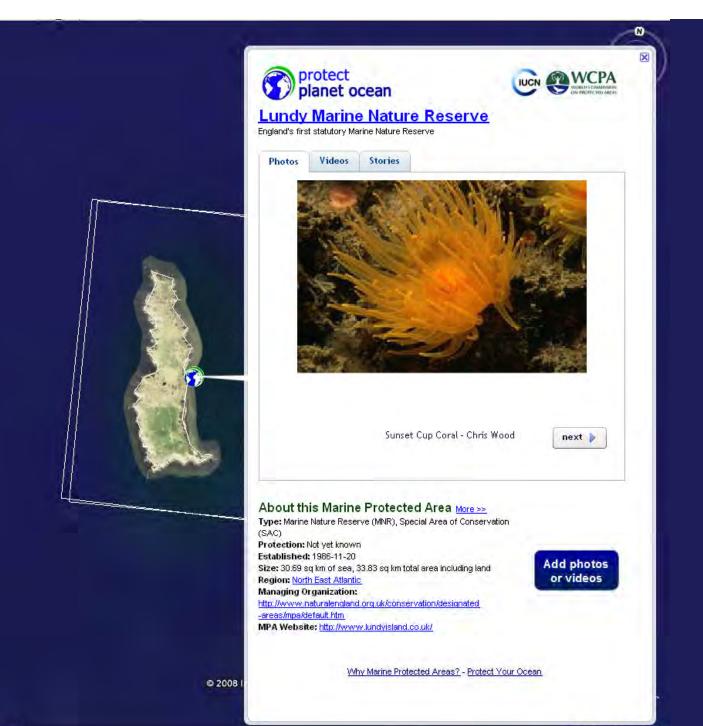
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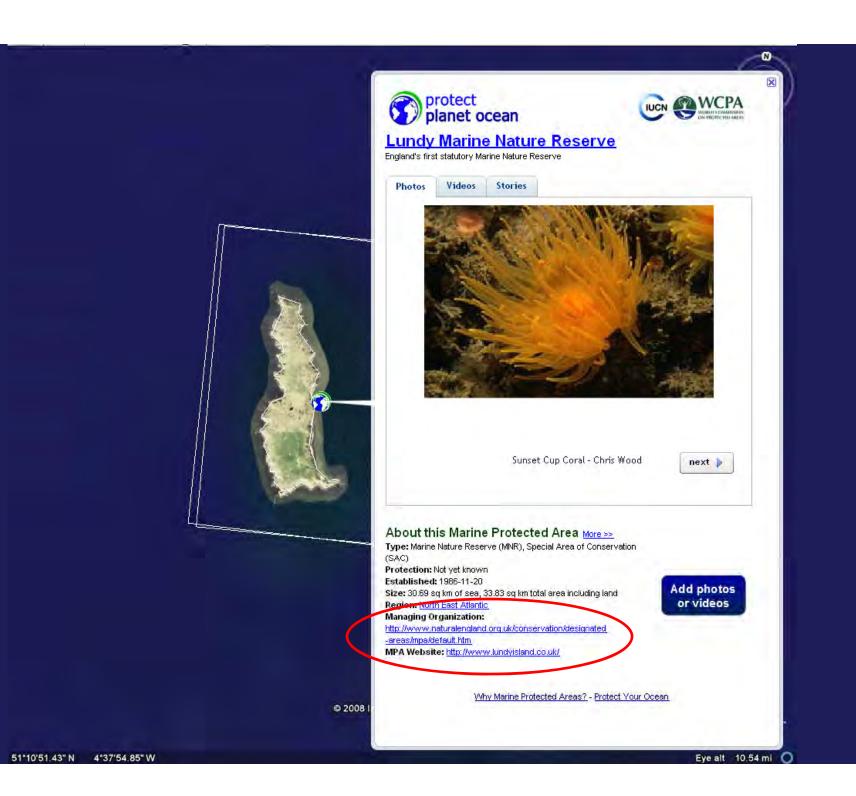
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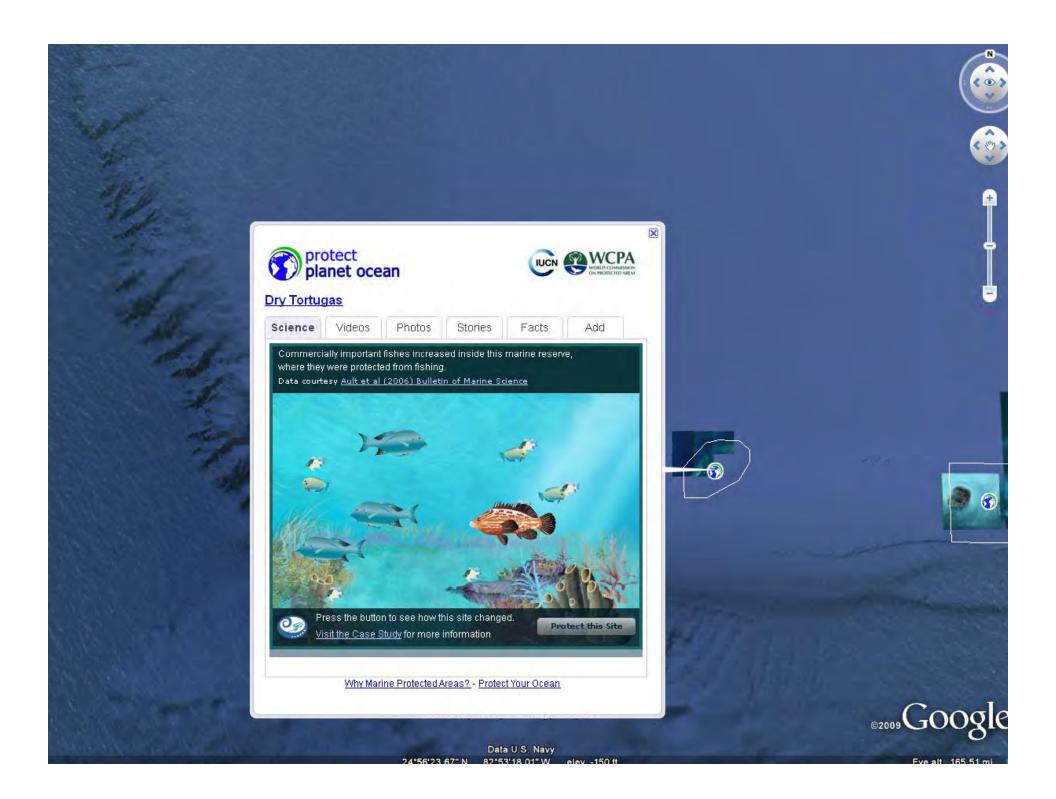
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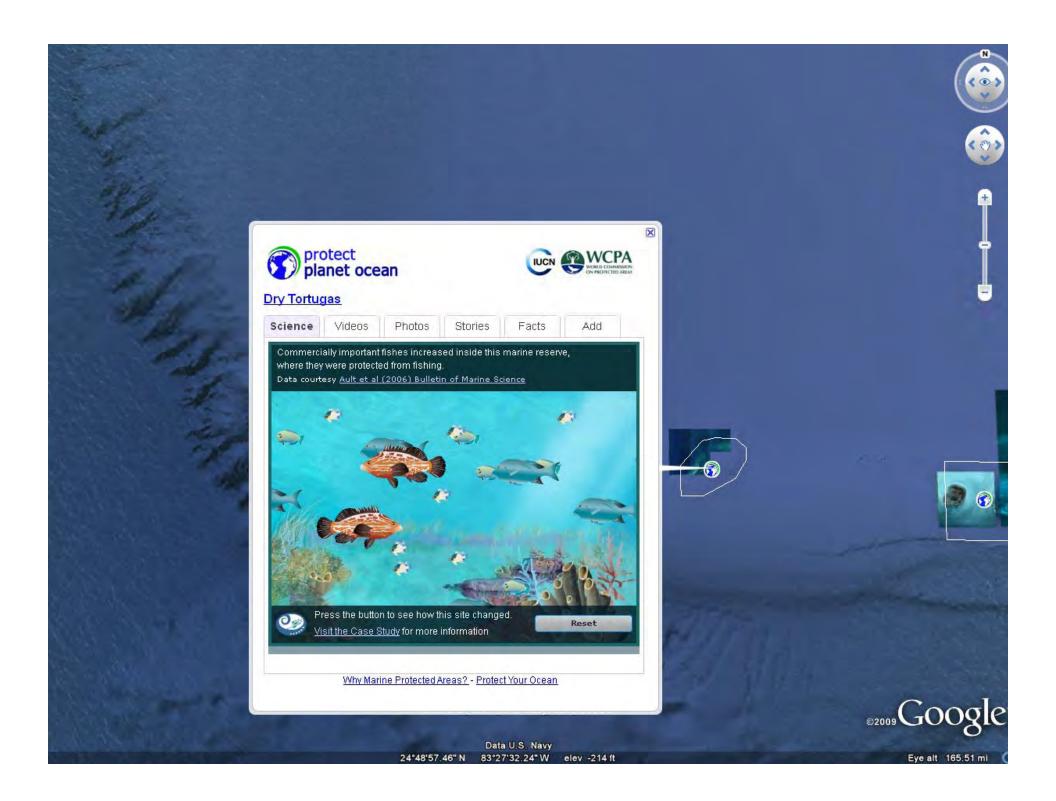
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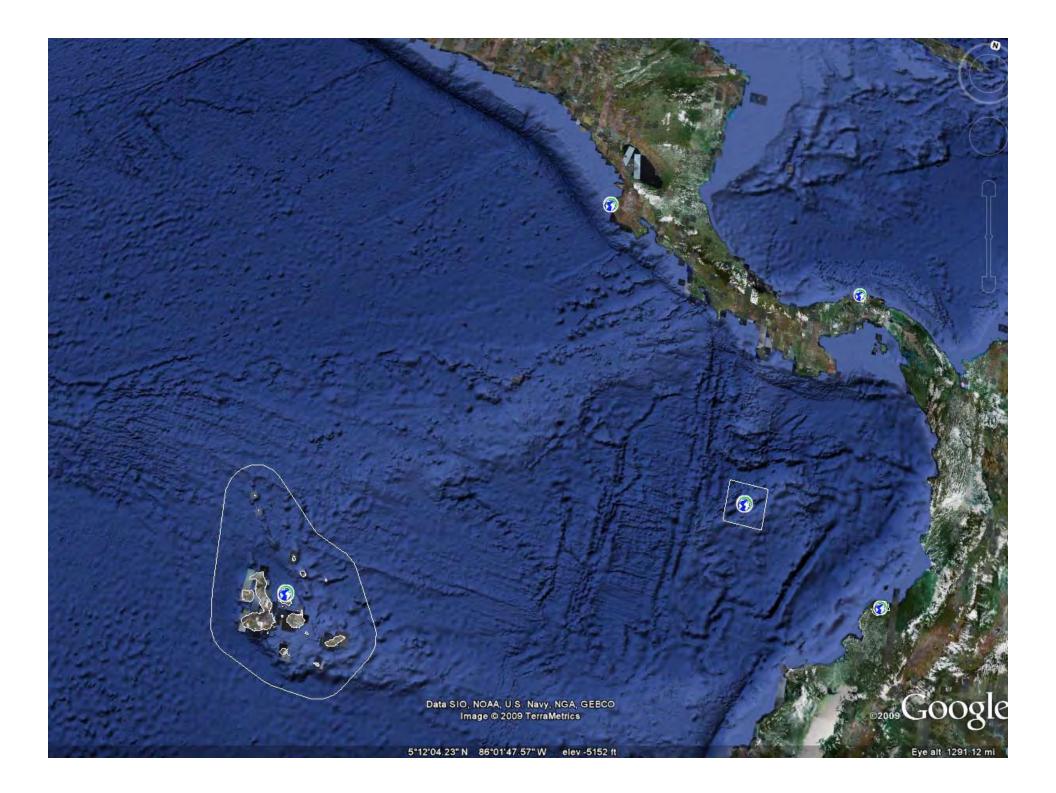
Image NASA















Google

Eye alt 1291.12 mi

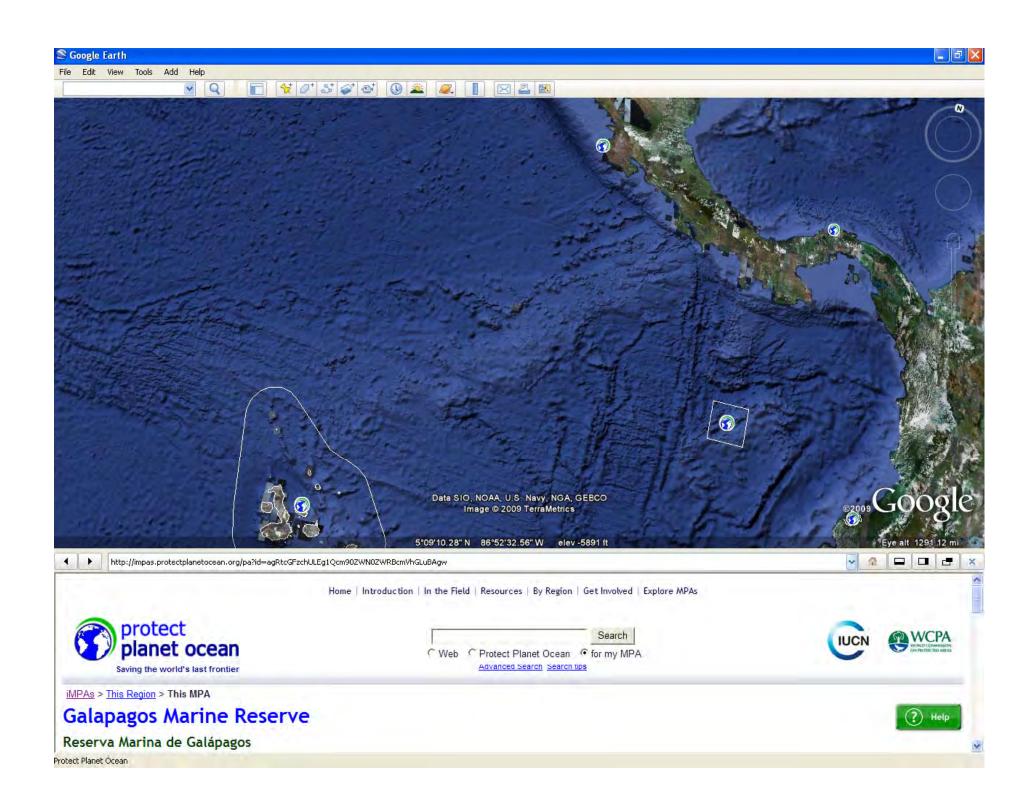
## Galapagos Marine Reserve

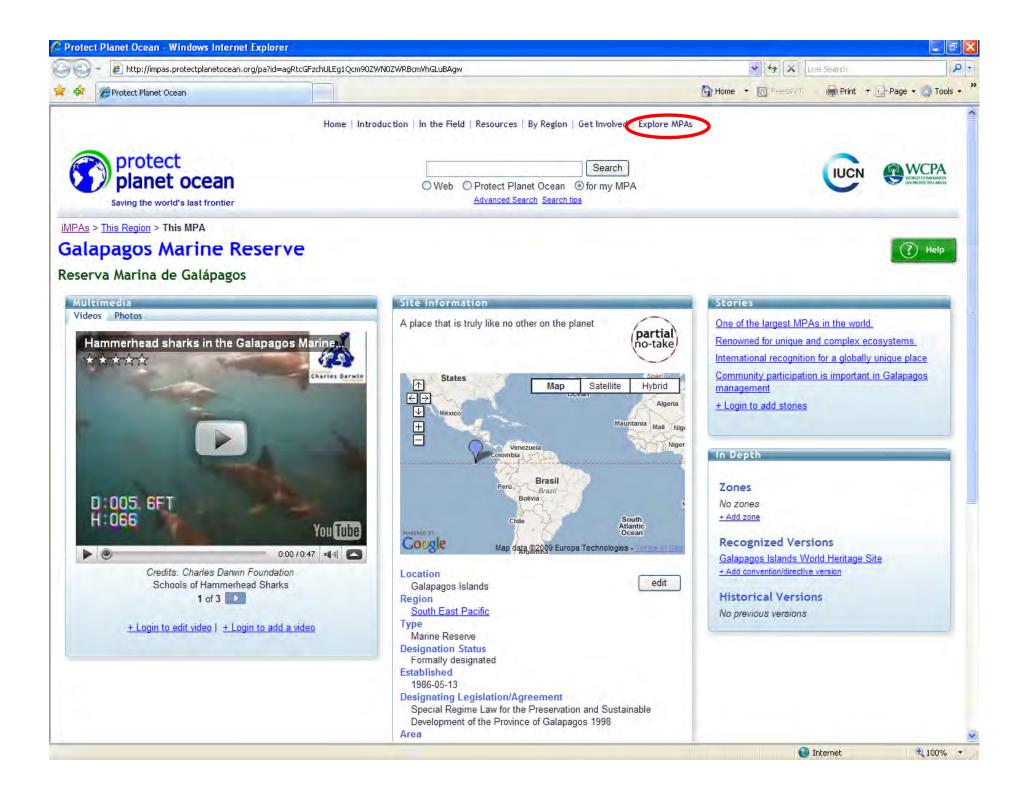
A place that is truly like no other on the planet

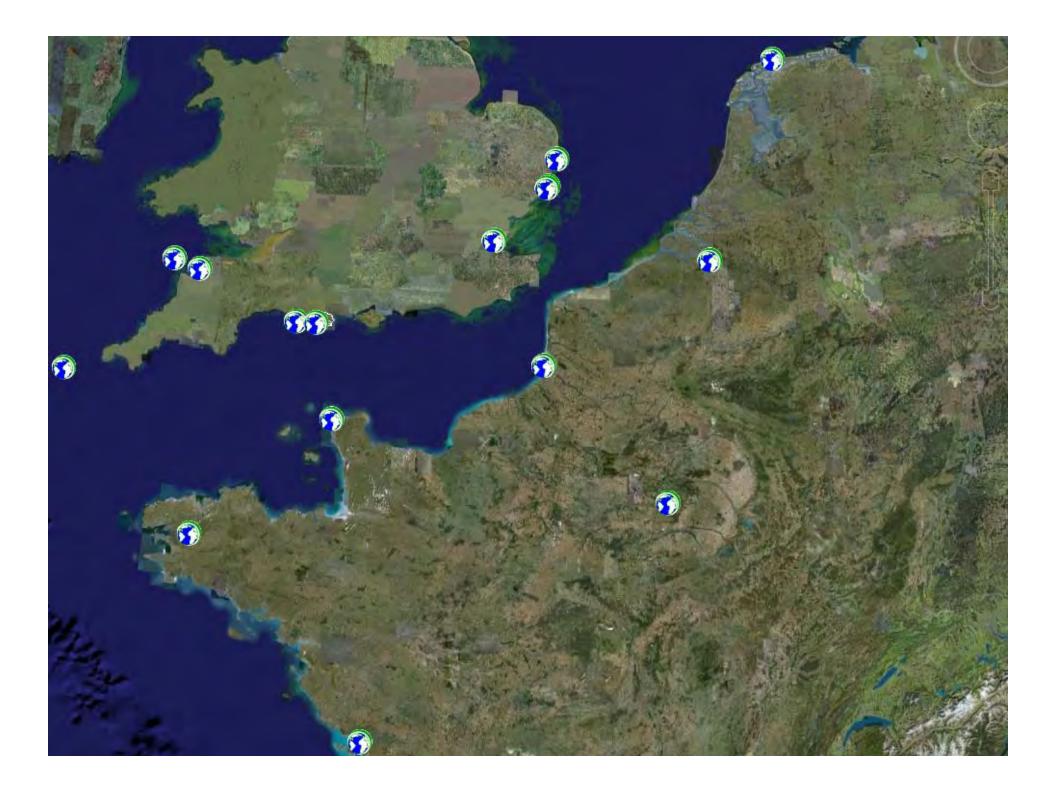




0°02'48.11" S 90°40'39.66" W elev -3222 ft





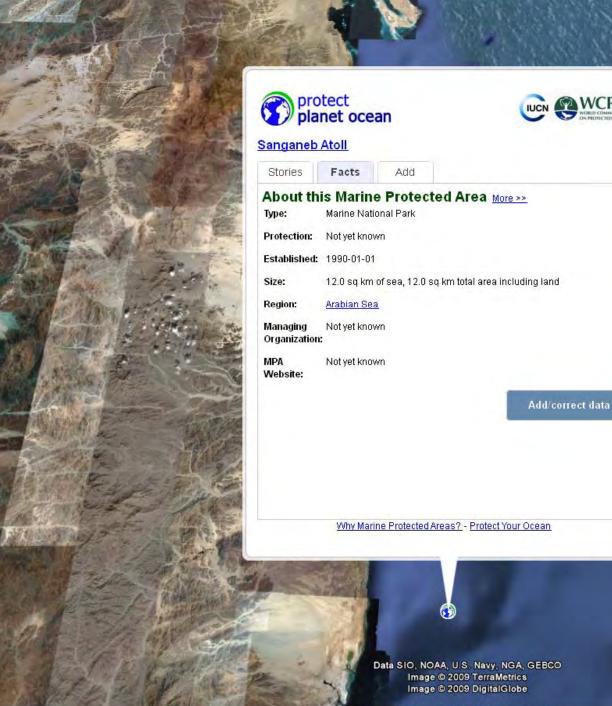




### COUNCIL on ENVIRONMENTAL QUALITY









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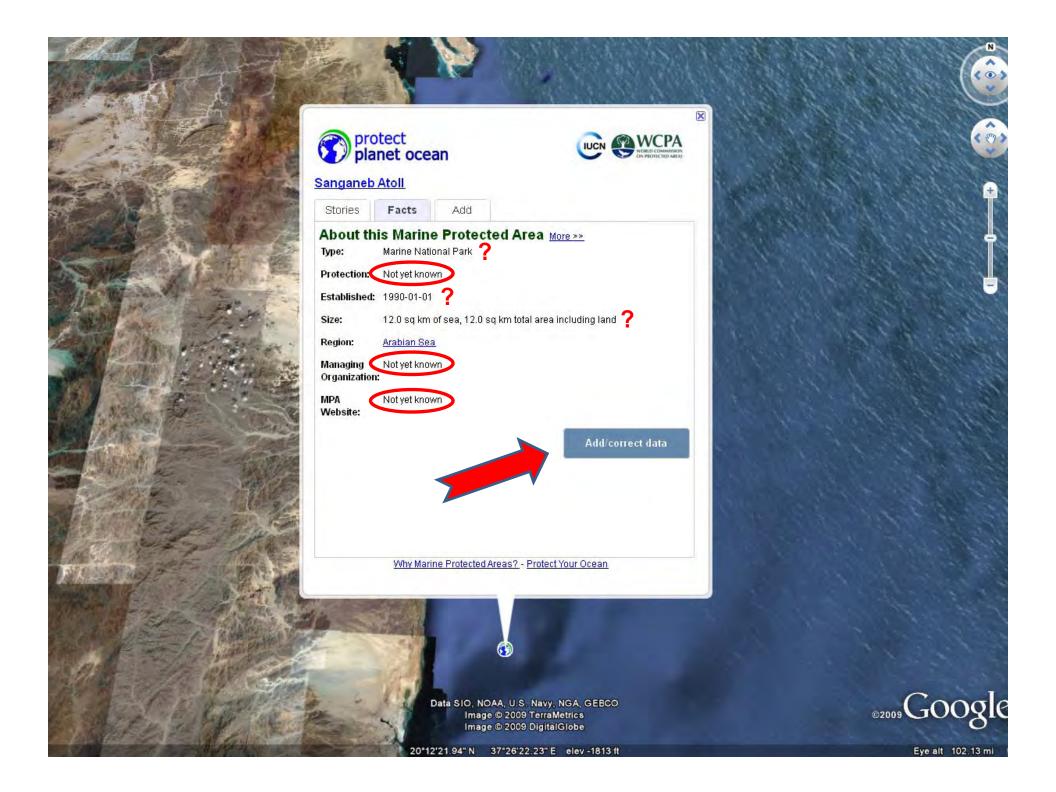


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20°12'21.94" N 37°26'22.23" E elev -1813 ft





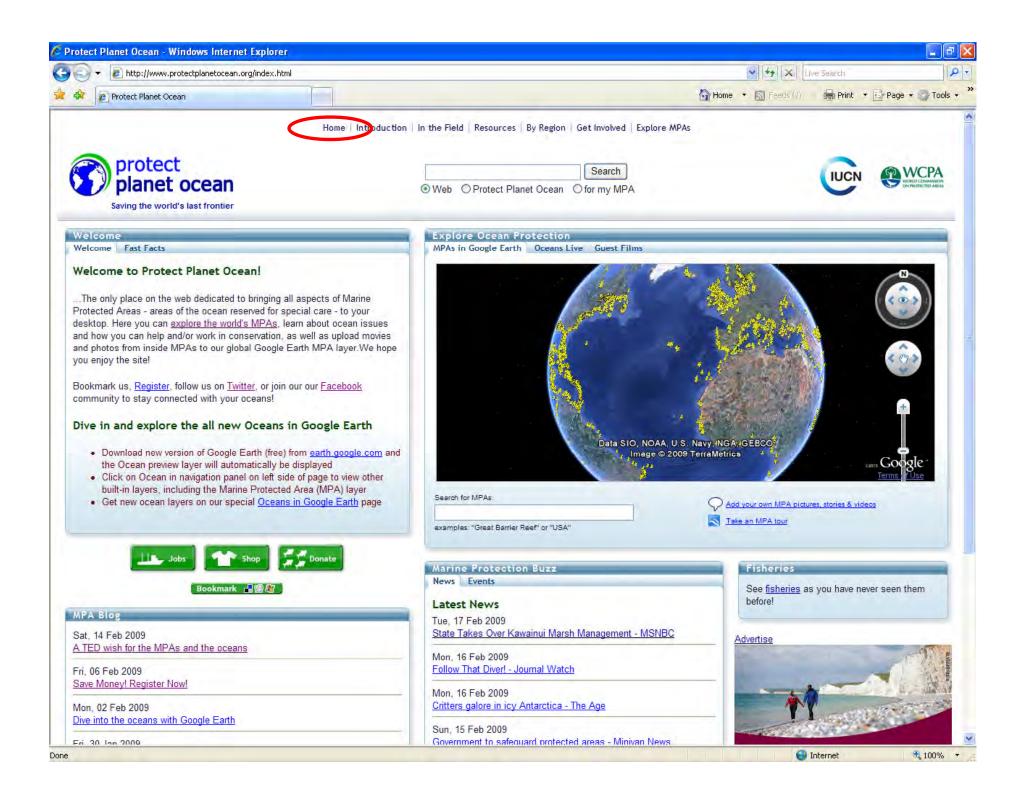


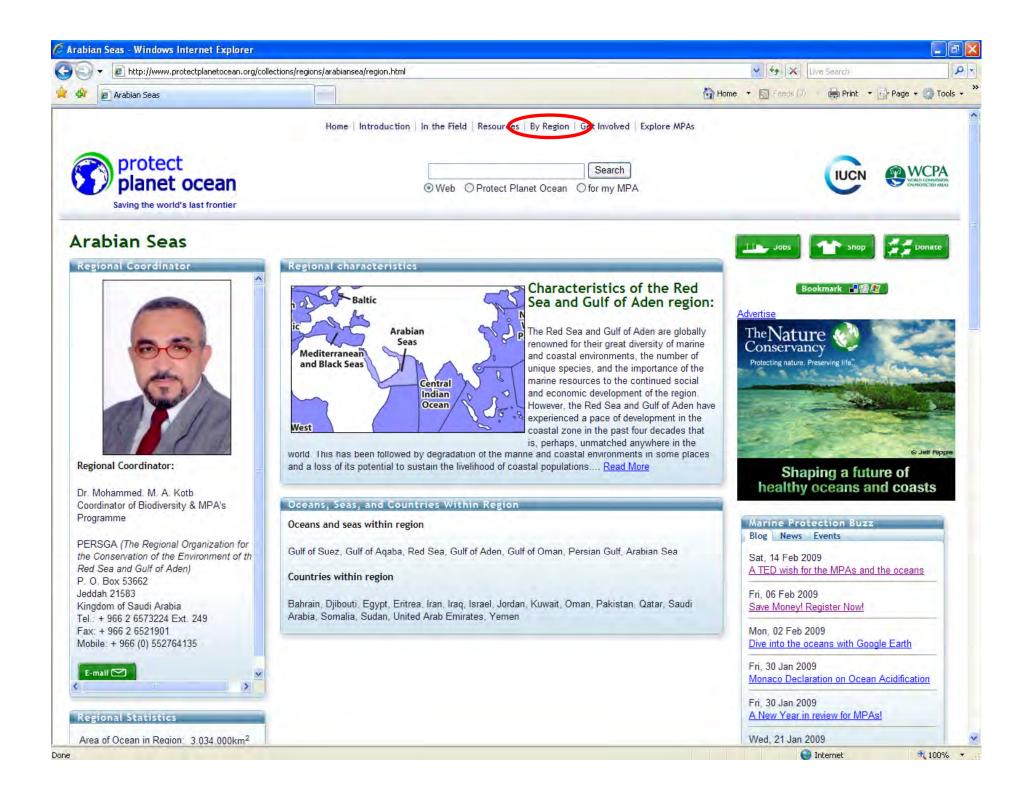


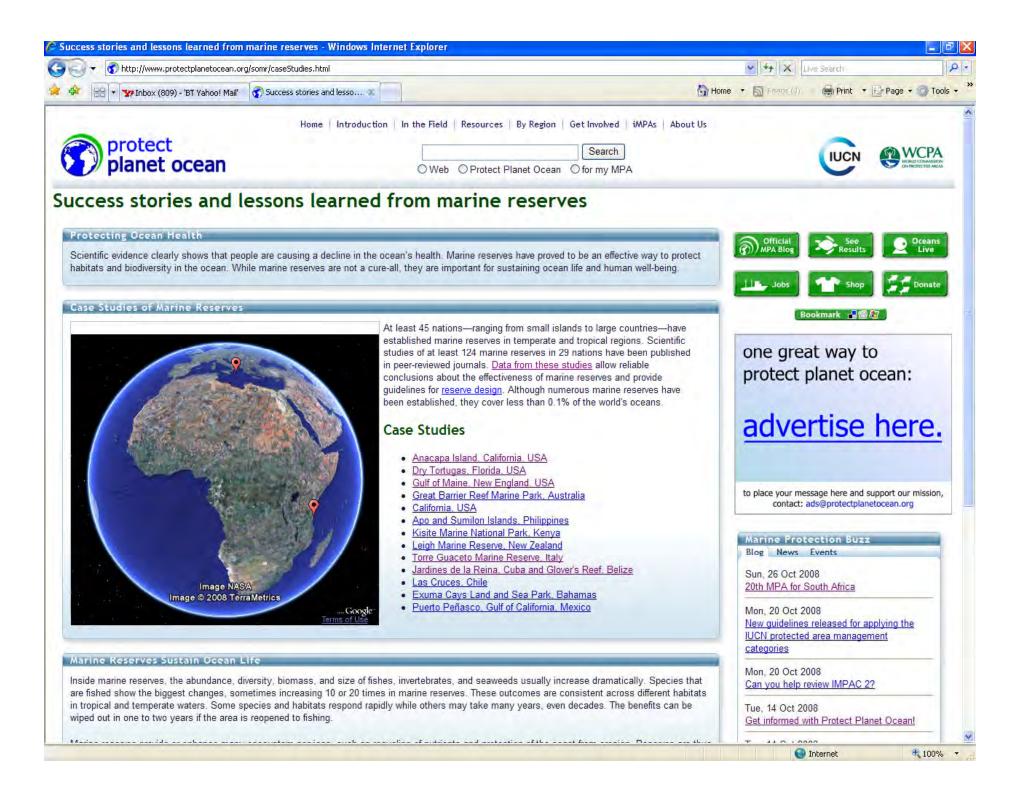
### www.protectplanetocean.org

# A global web portal on MPAs to inform, educate and entertain











# NATIONAL GEOGRAPHIC

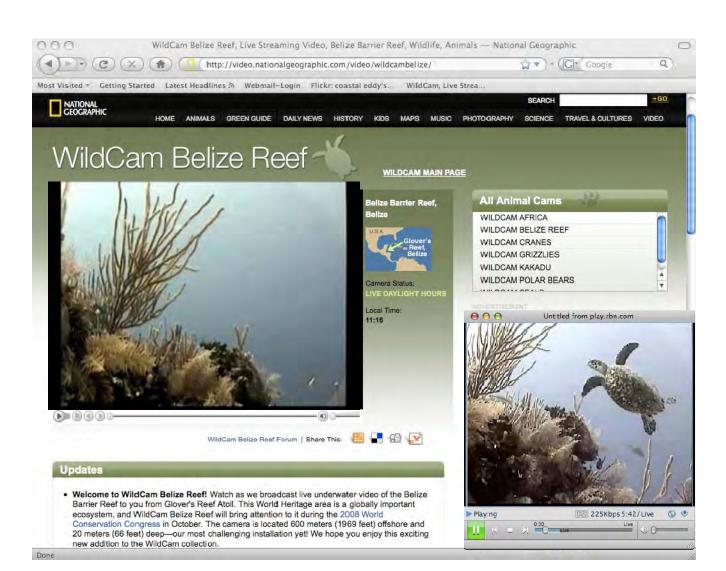
Mission Programs >

Research, Conservation, L Exploration >

**REMOTE IMAGING** 







Belize Barrier Reef Reserve: Glovers Reef Atoll

> --600 m offshore, --20 m depth

#### Partnership:

NGS UN Foundation IUCN Isla Marisol Resort



www.nationalgeographic.com/wildcam



## WildCam and Crittercam.....

- exciting Remote Imaging tools
- amazing and valuable NG imaging resources, along with partner assets





0 0

[5] 225Kbps 3:50/Live

Playing

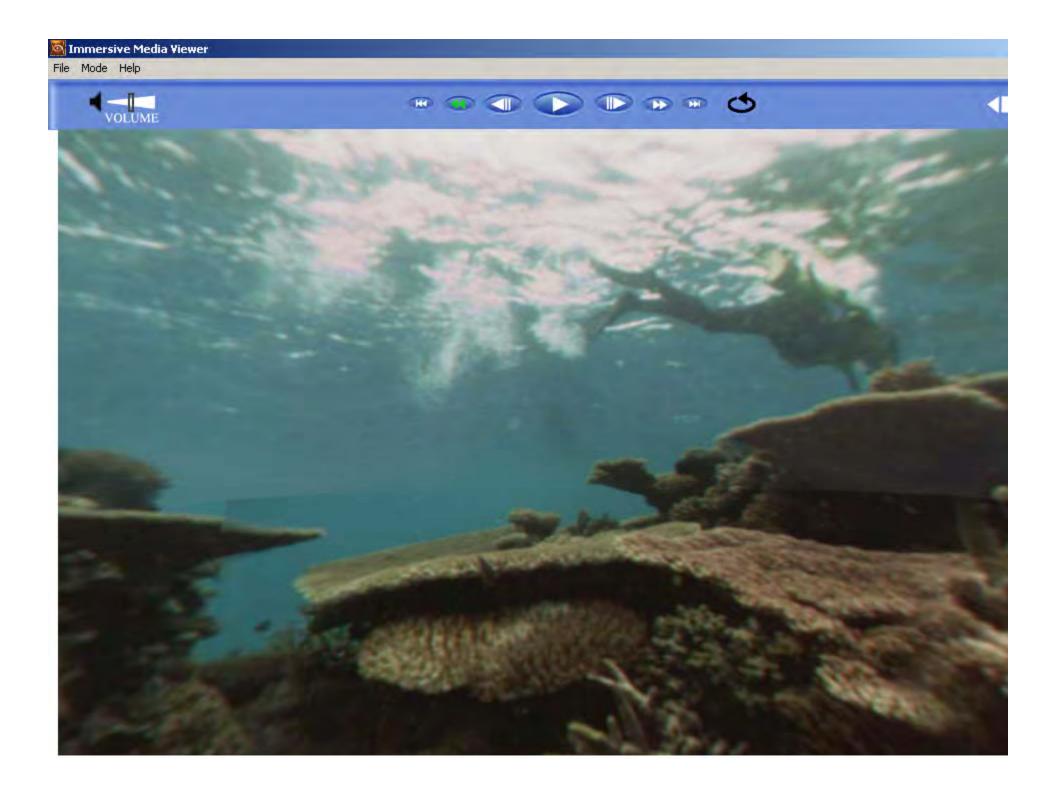
Bringing the oceans, MPAs, World Heritage to life for viewers the world over

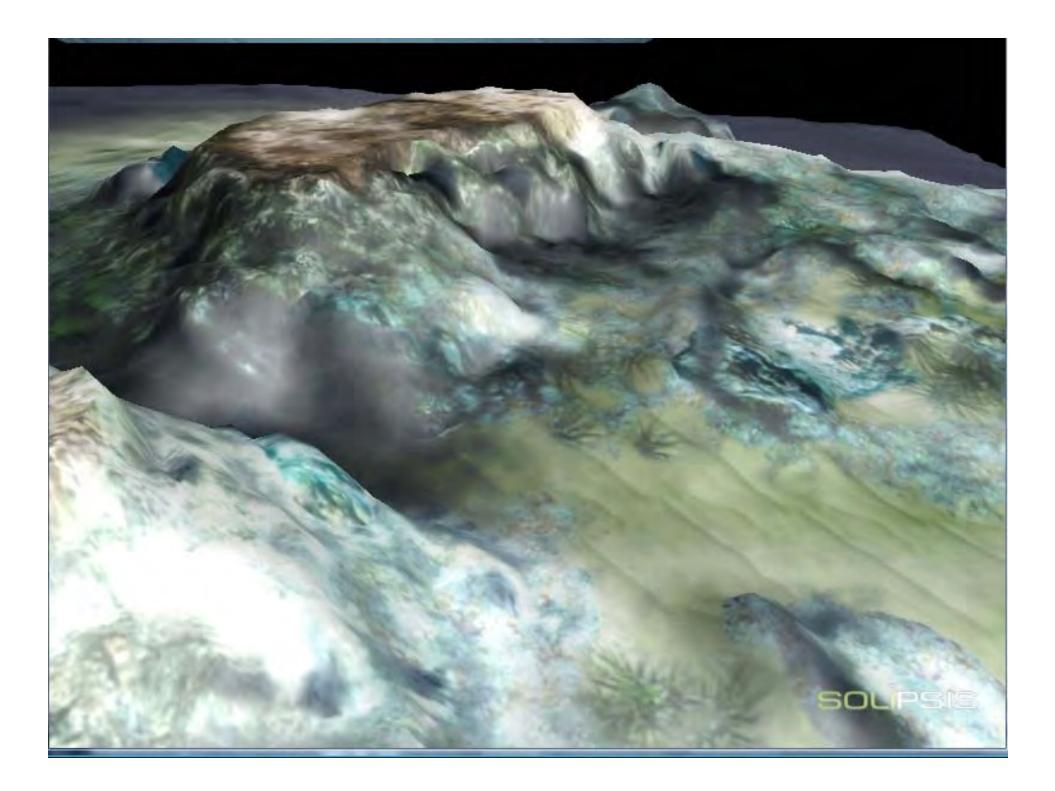
NATIONAL GEOGRAPHIC Remote Imaging





- Carbon management in marine ecosystems
- Building the global network
- Protect My Ocean
- Ocean Voices
- High Seas
- Marine World Heritage
- TED 'wish'















Sylvia's 'Wish'

"I wish you would use all means at your disposal -- films! expeditions! the web! more! -- to ignite public support for a global network of marine protected areas, hope spots large enough to save and restore the ocean, the blue heart of the planet."



