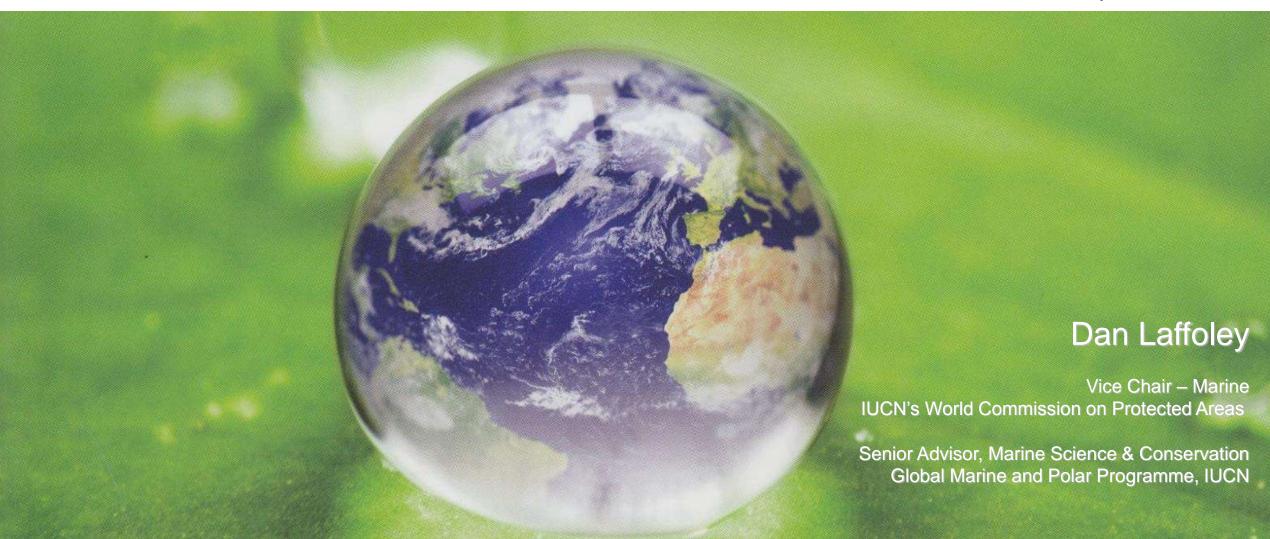
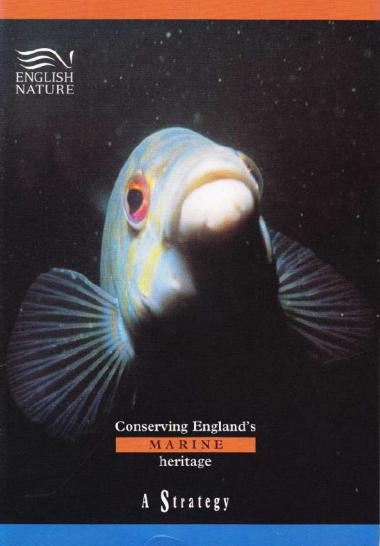
Protecting the ocean - international trends & outstanding practice



INTERNATIONAL UNION FOR CONSERVATION OF NATURE

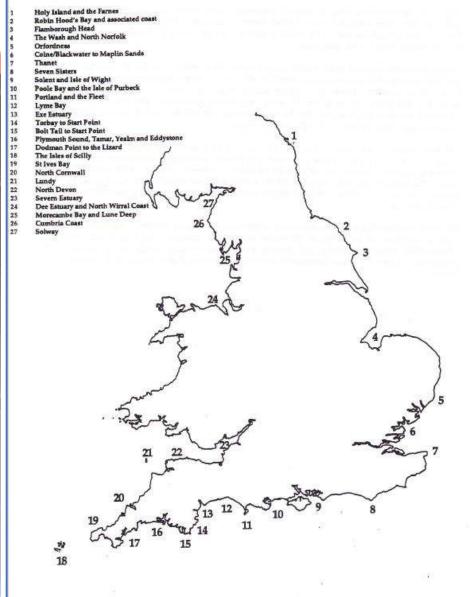
Looking back 25 years.....



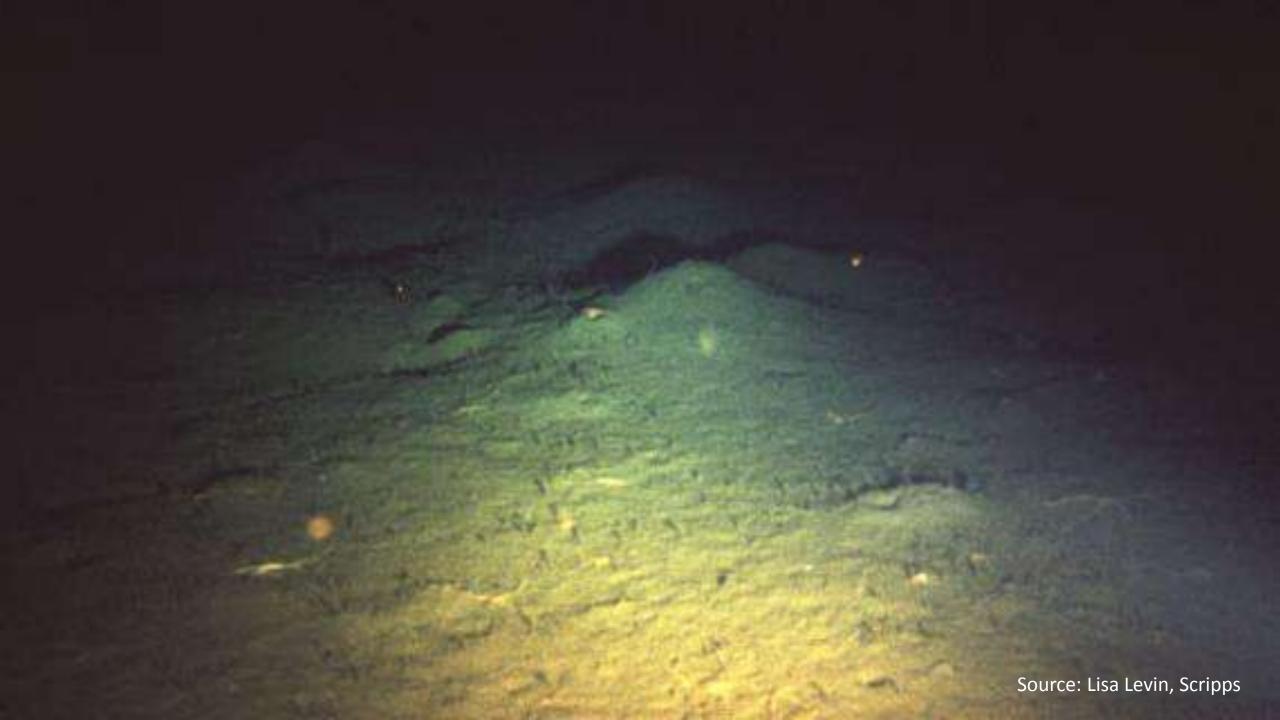


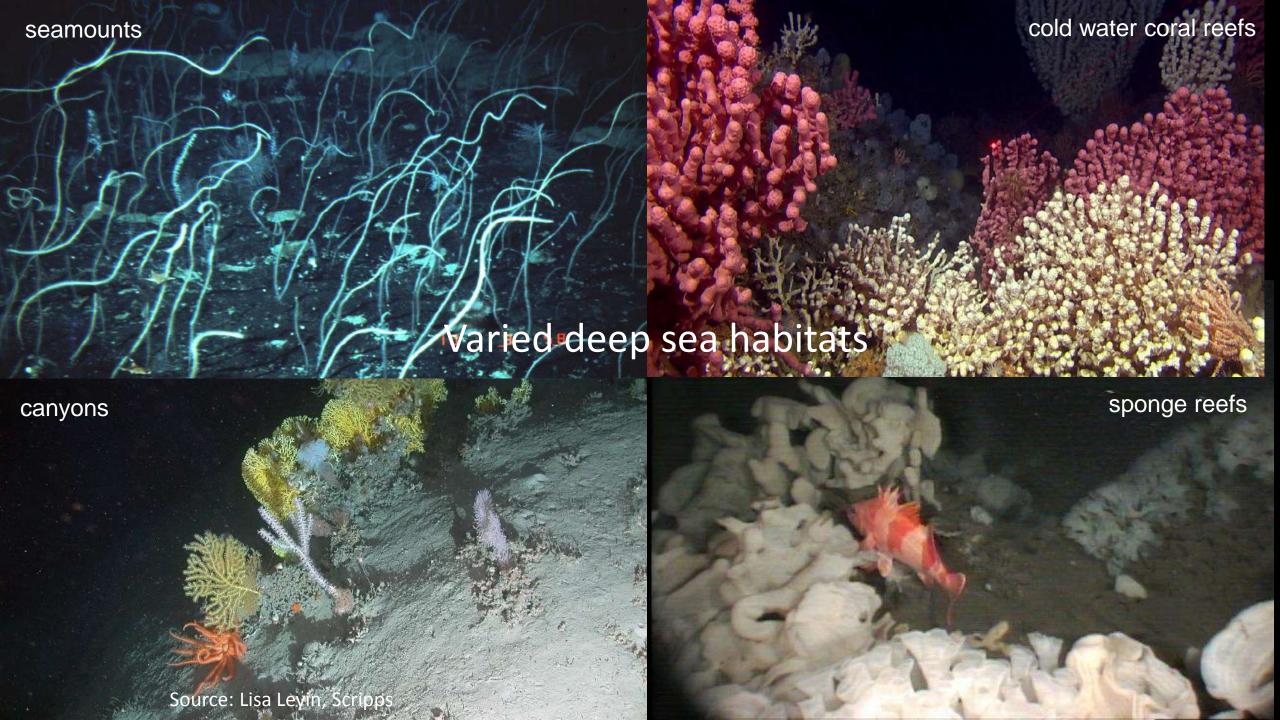
Important areas for marine wildlife around England

Index

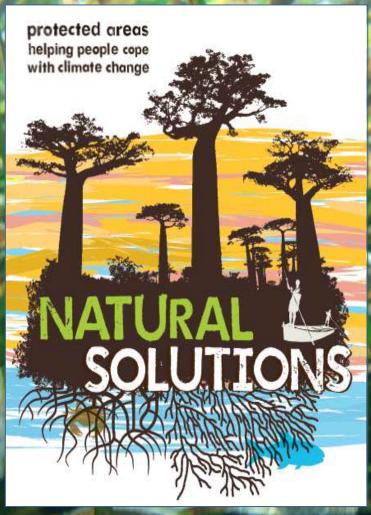








Valuing nature and natural 'services'





The Management of Natural Coastal Carbon Sinks

Edited by Dan Laffoley and Gabriel Grimsditch



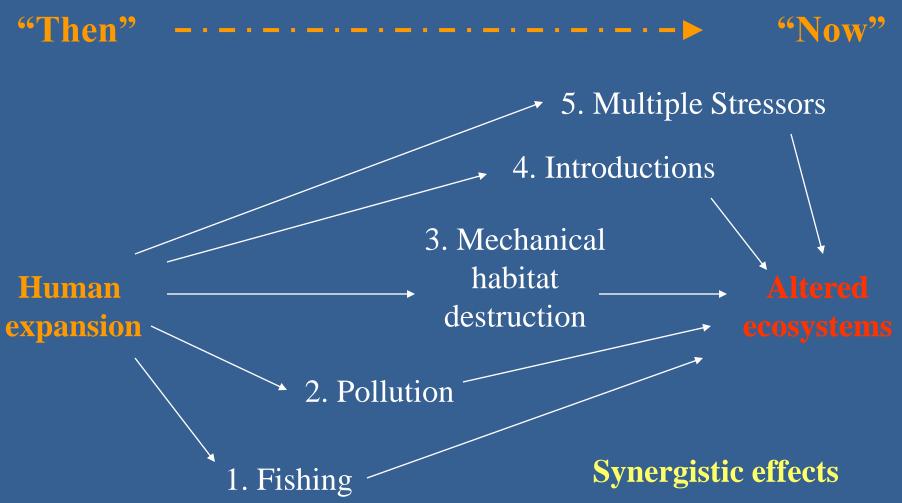








The ocean: the future we may get





Explaining Ocean Warming:

Causes, scale, effects and consequences

Edited by D. Laffoley and J. M. Baxter September 2016









JUCN GLOBAL MARINE AND POLAR PROGRAM





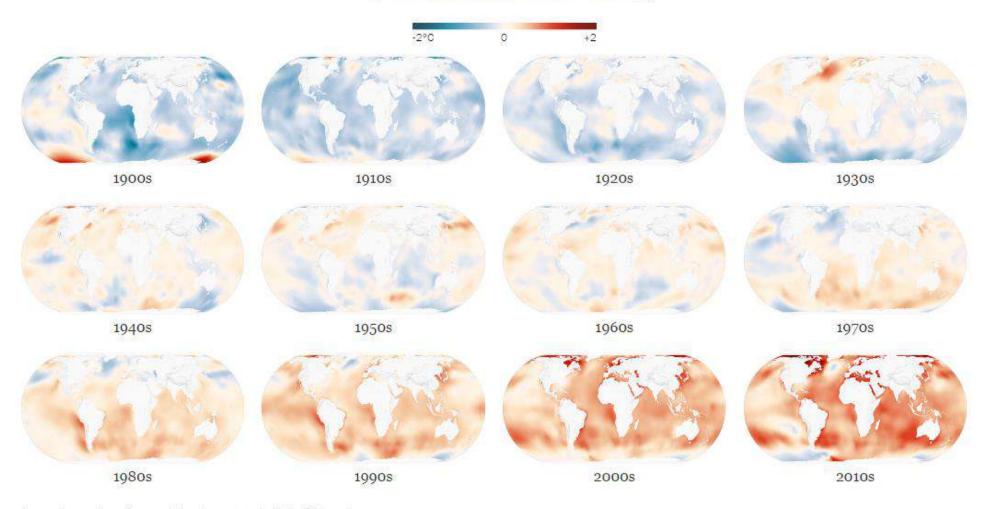


"Tampering can be dangerous. Nature can be vengeful. We should have a great deal of respect for the planet on which we live."

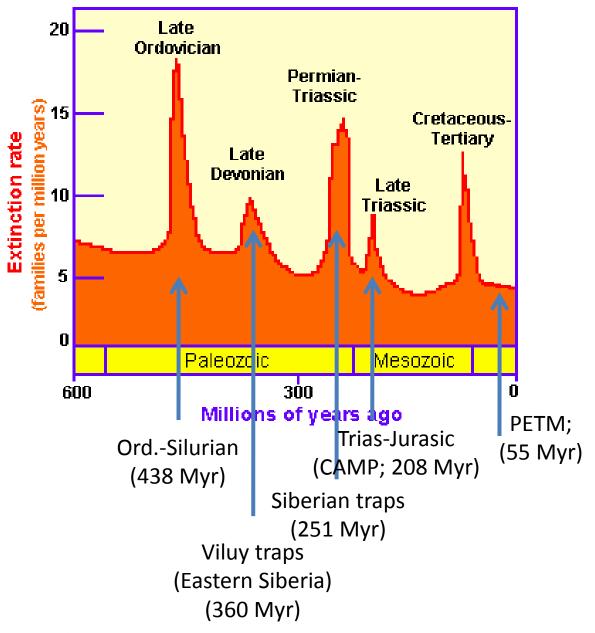
Carl-Gustaf Rossby, 1956



Where the Oceans Have Been Colder and Hotter Than Average



Average temperatures from each decade compared with the 20th-century average.



Carbon pertubation (Veron, 2008)

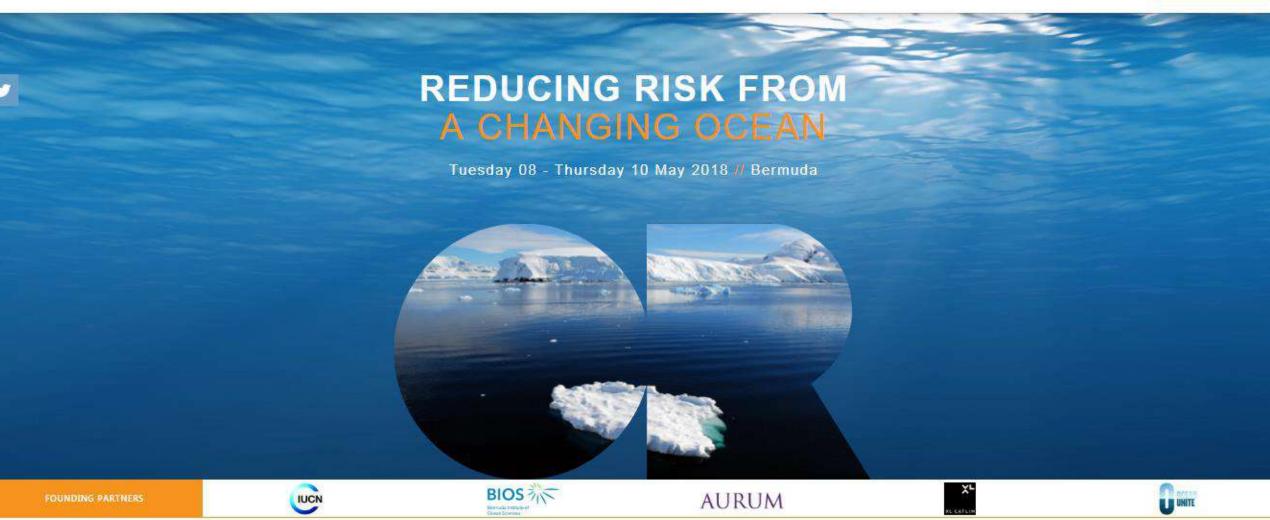
symptoms:

- ➤ Global warming
- ➤Ocean acidification
- **≻**Anoxia

Important:

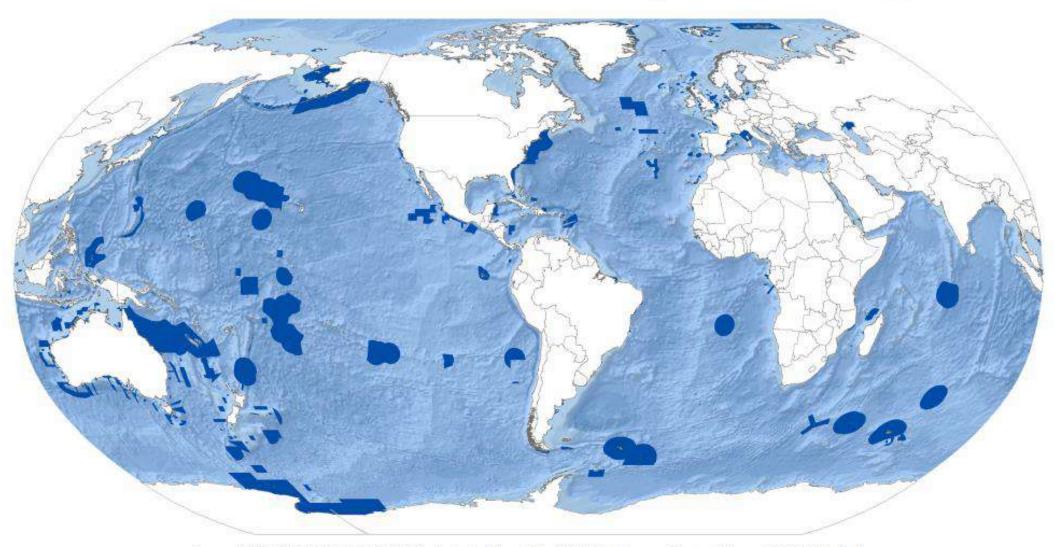
- ➤ Magnitude
- > Rate of change

After Raup and Sepkoski (www.enchantedlearning.com)



Official MPA Map



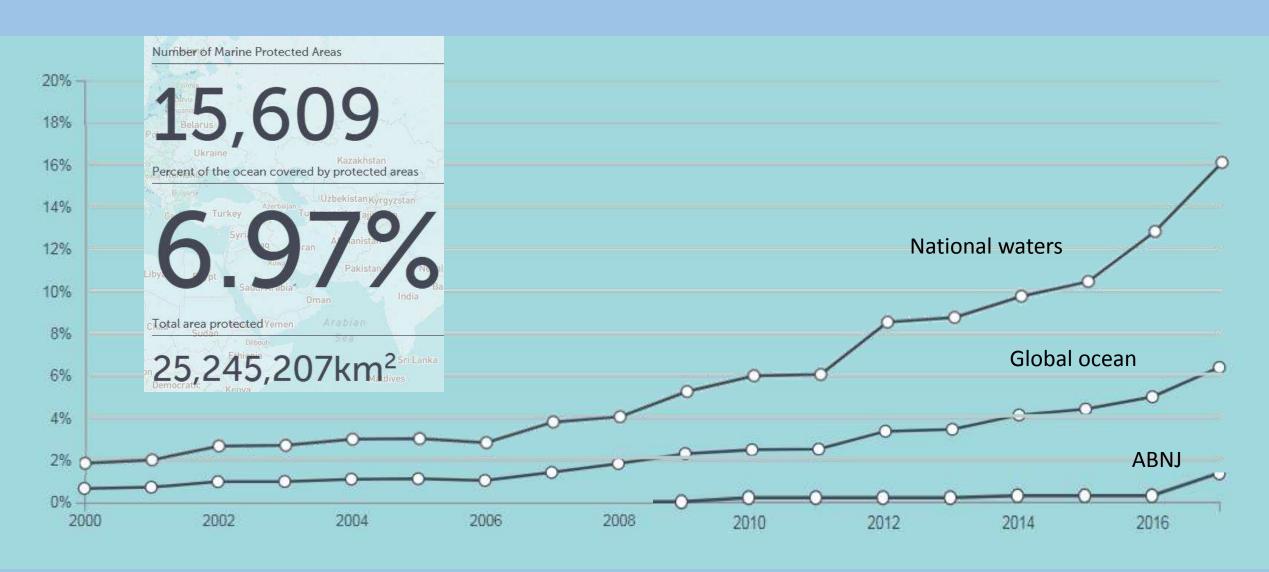


Source: UNEP-WCMC AND IUCN (2018). Protected Planet: The World Database on Protected Areas (WDPA) [On-line], January, 2018, Cambridge, UK: UNEP-WCMC. Available at wwww.protectedplanet.net





Growth in ocean protection

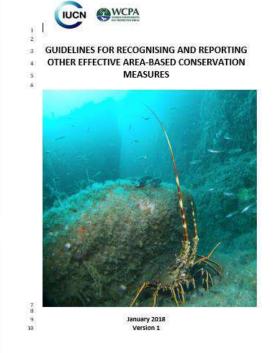


Top 10 Marine Protected Areas by size Ross Sea Region Marine Protected Area 2,060,058 km² Marae Moana 1,981,965 km² Réserve Naturelle Nationale des Terres australes françaises 1,654,999 km² Papahānaumokuākea Marine National Monument 1,516,557 km² Parc Naturel de la Mer de Corail 1,291,643 km² Pacific Remote Islands 1,277,784 km² South Georgia and South Sandwich Islands Marine Protected Area 1,069,872 km² Coral Sea 995,251 km² Steller Sea Lion Protection Areas, Gulf 866,717 km² Pitcairn Islands Marine Reserve 839,568 km²

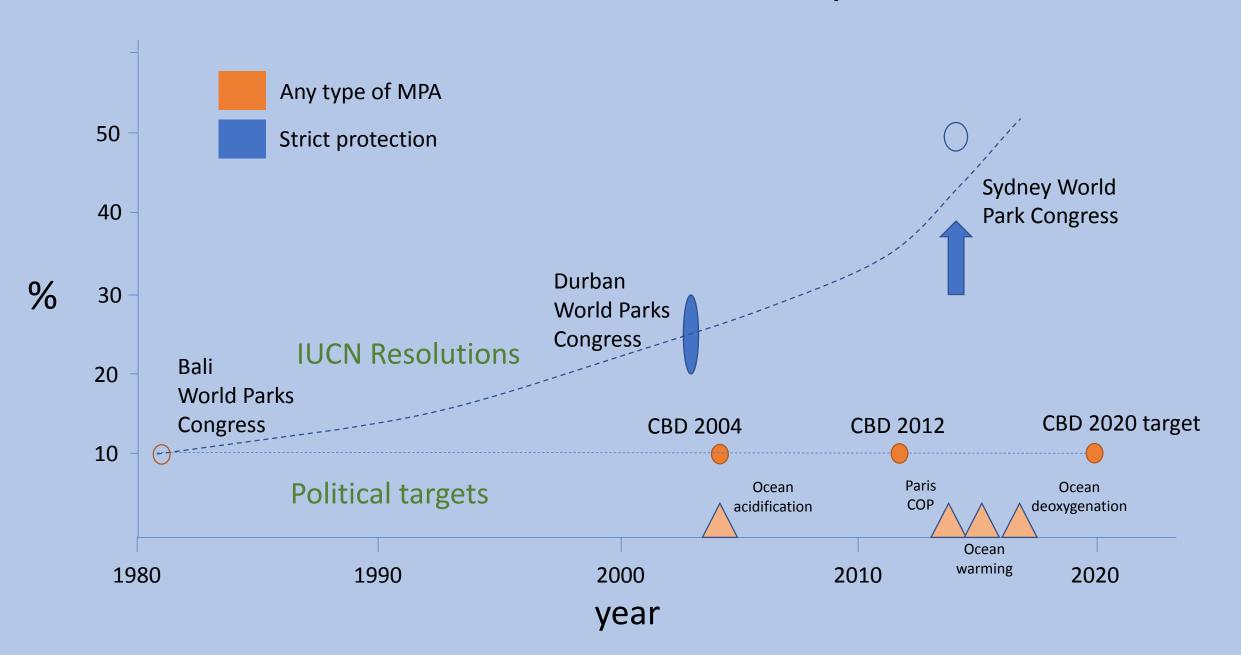
Top 20 Marine Protected Areas by size Total global coverage of all MPAs (25,245,207 km²) Total global coverage of largest 20 MPAs (17,573,997 km²)

Other effective area-based conservation measures (OECMs)

By 2020 at least 17 % of terrestrial and inland water, and 10 % of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well-connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscape and seascape (emphasis added).



How much ocean should we protect?







Guidelines for Applying the IUCN Protected Area Management Categories to Marine Protected Areas



Expected MPA standards

MPA language to describe degree of protection and state of implementation

International Marine Protected Area Congresses (IMPAC)



Australia 2005, USA 2009, France 2013, Chile 2017, and......Canada 2021

IUCN's Green List of Protected Areas

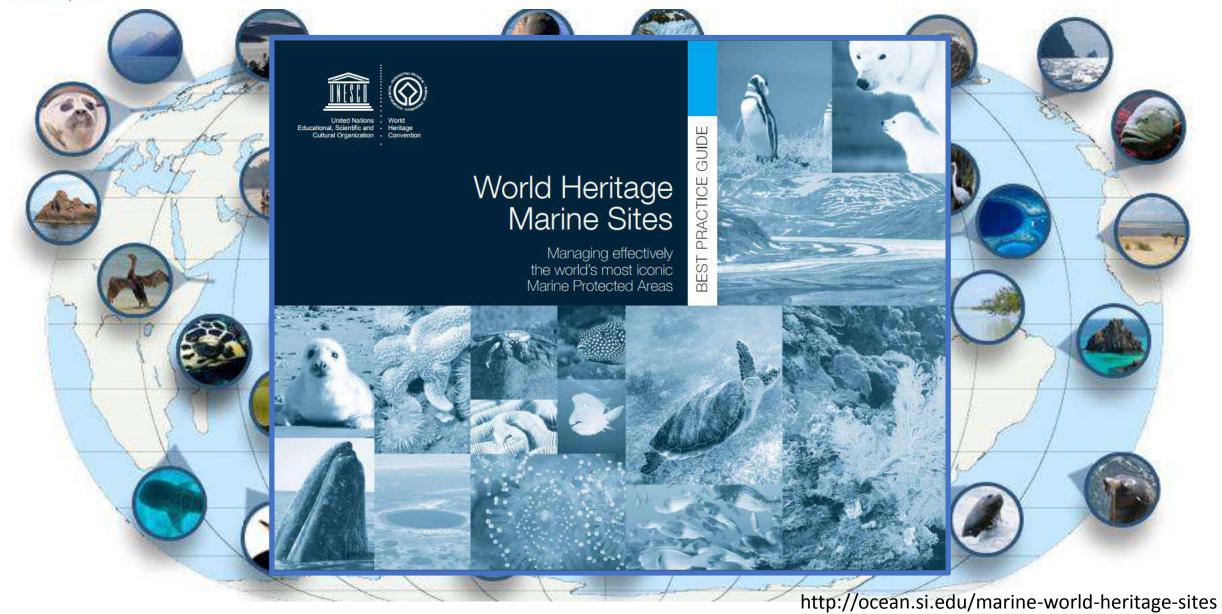
 Promoting success and achievement in biodiversity conservation outcomes

Recognizing exemplary efforts that meet and exceed international standards

Help partners achieve quality



Scaling up marine World Heritage







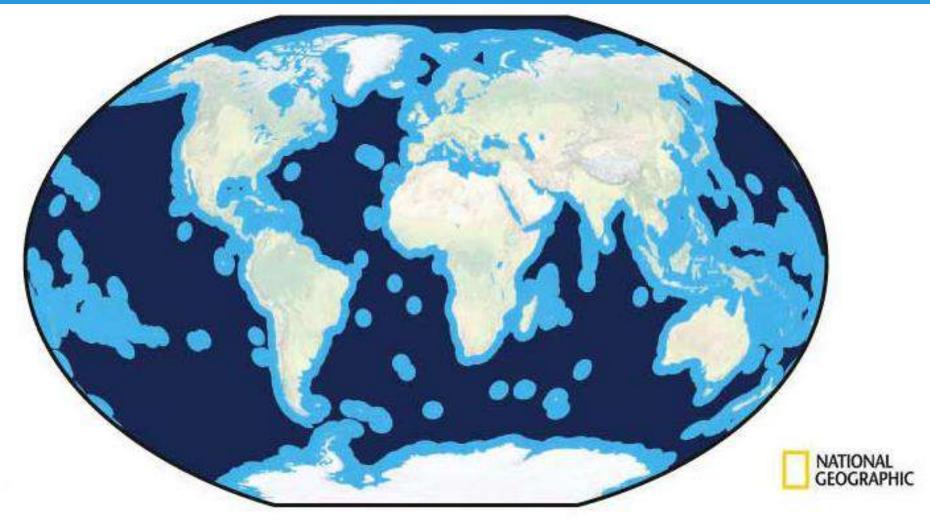
71% OF EARTH IS COVERED BY OCEAN

64%

OF THE OCEAN
IS CONSIDERED
THE HIGH SEAS/
INTERNATIONAL
WATERS

THE HIGH SEAS COVER

45%
OF THE EARTH'S SURFACE



Putting the ocean protection in the palm of your hand





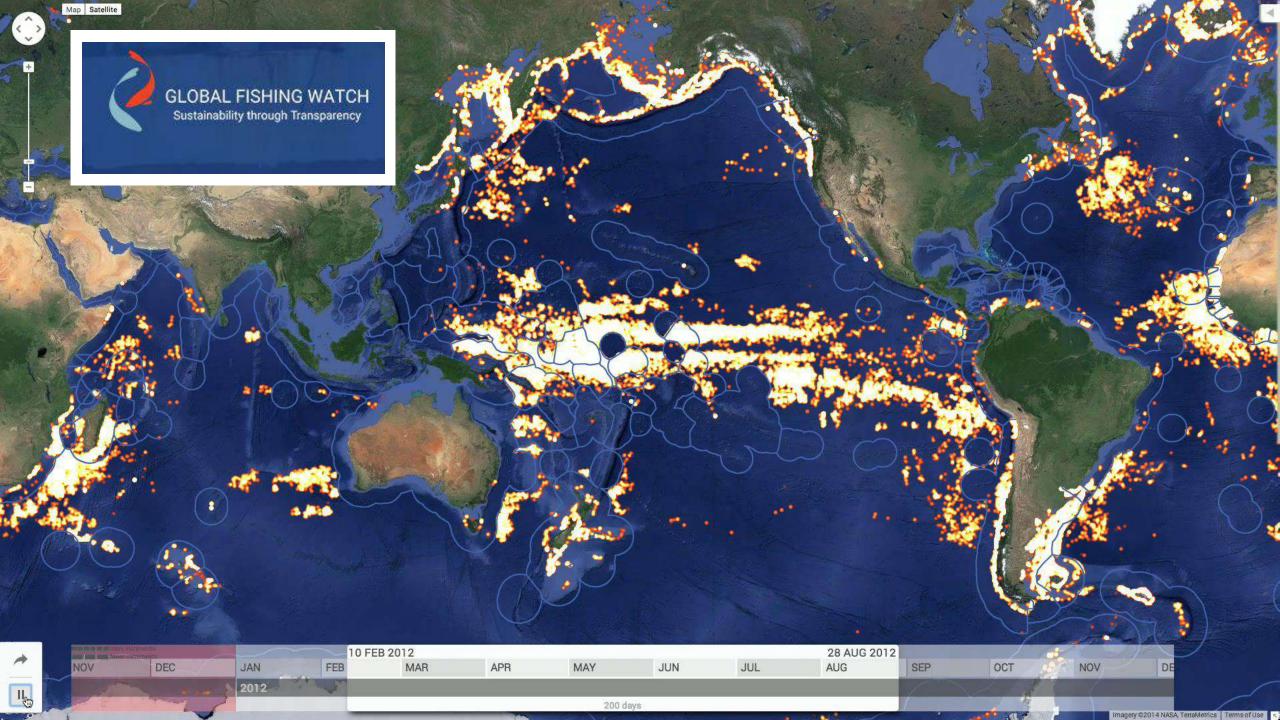




Introducing underwater Street View







The future is.....cuboid?





With special thanks to: XL Catlin, Underwater Earth, Google, Oceana, SkyTruth, Richard Ververs, Brian Sullivan & Andy Sharples, and Greg Brost for the Earth animation