

Protected Areas in the Pacific

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An initiative of the ACP Group of States financed by the European Union's 11th EDF.



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From Knowledge to Action for a Protected Planet

Pacific Islands Region – an Oceanic Realm

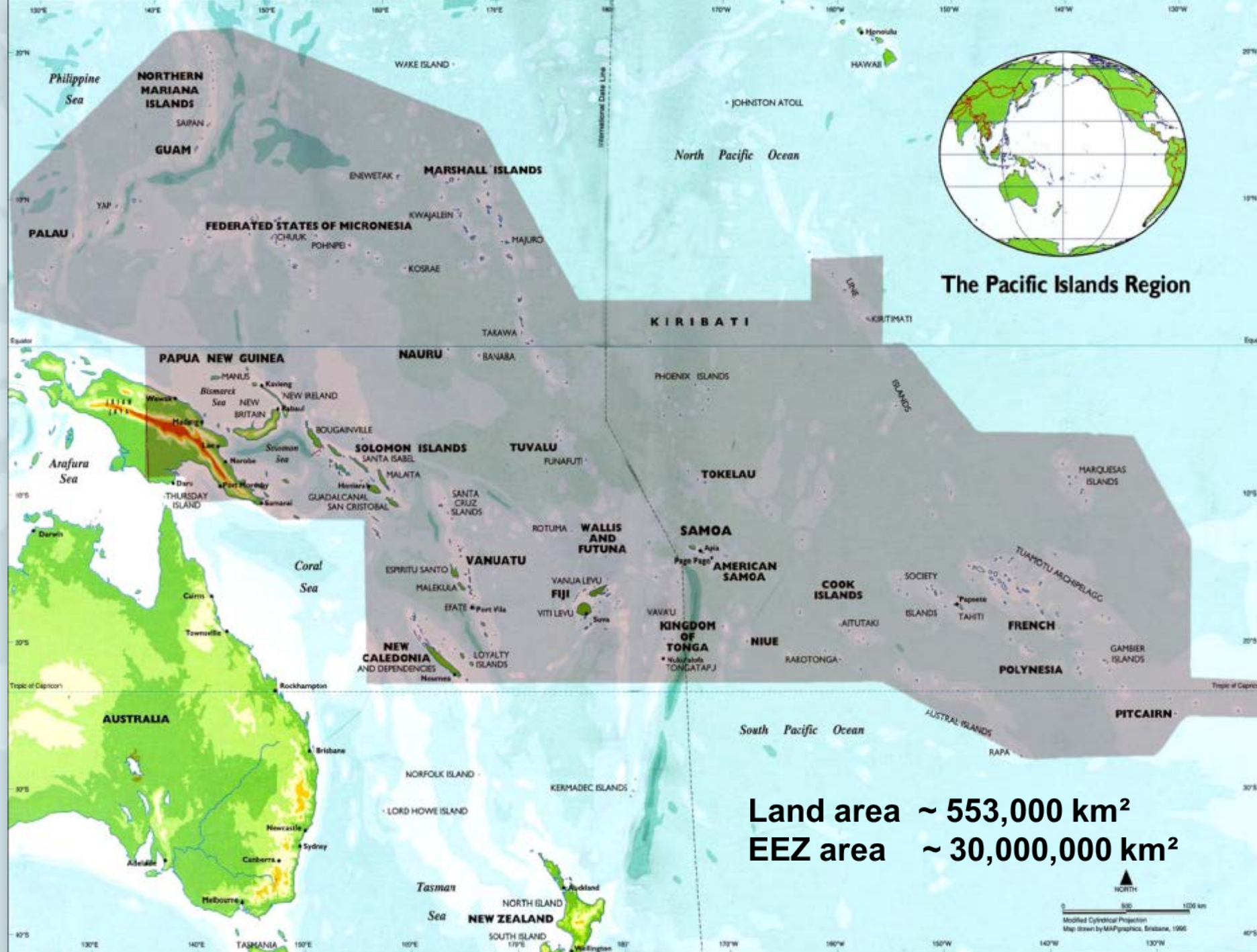


Data SIO, NOAA, U.S. Navy, NGA, GEBCO

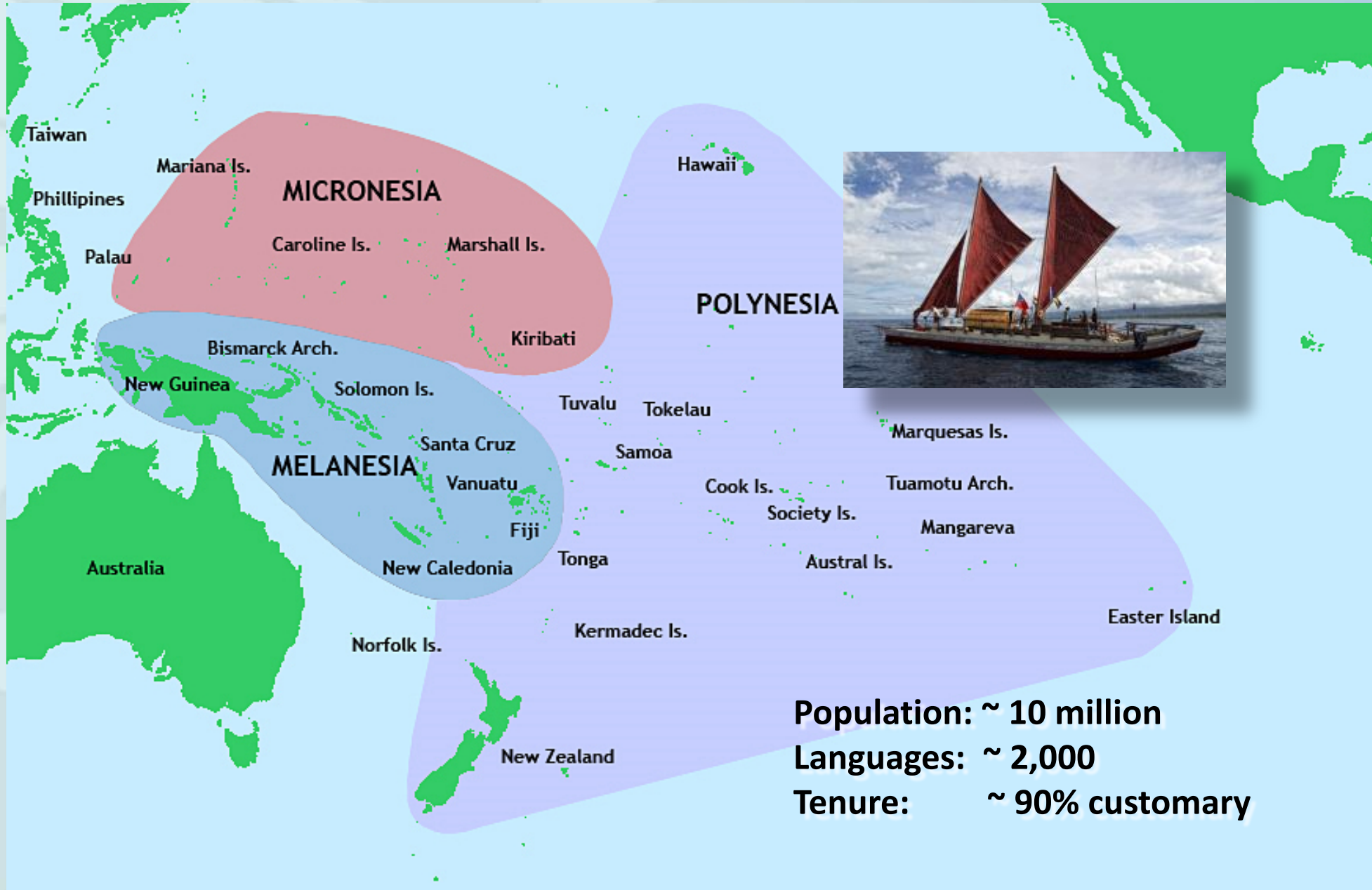
© 2009 Europa Technologies

© 2009 Tele Atlas

© 2009 DManas



Cultural Diversity



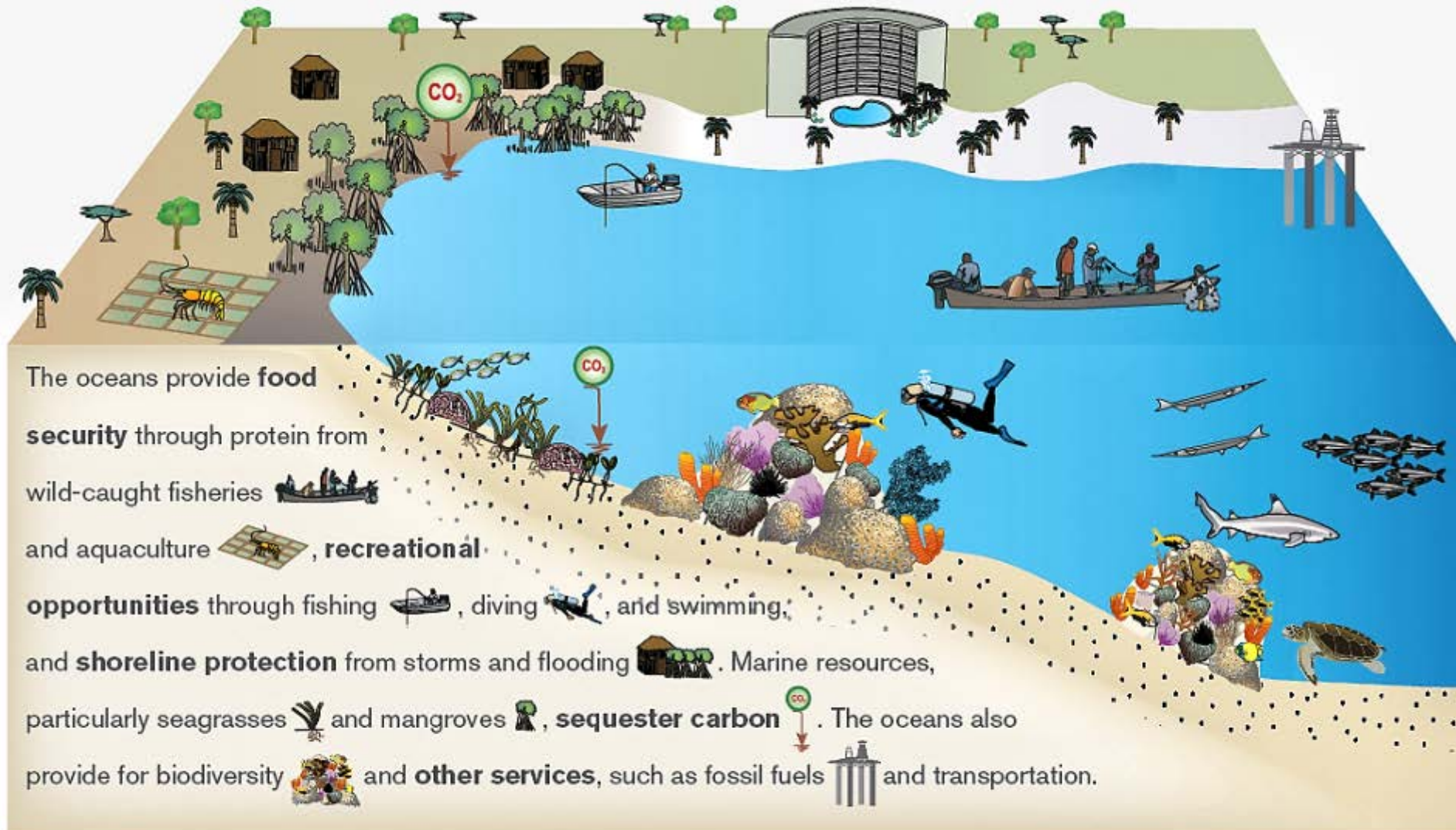
Today: Pacific island people reliant on natural resources

70-80% of the catch from inshore fisheries is used for subsistence purposes



03/20/2003 10:46

Ecosystem services even more important today



Conceptual diagram illustrating the ecosystem services provided by oceans and the ways in which humans depend on oceans.

Island Ecosystem Diversity



High Biodiversity Values



Values of Biodiversity and Ecosystems



Values of Biodiversity and Ecosystems

TEV Pacific island coral reefs in 2009: **US\$3.8 billion p.a.**

TEV of Pacific island mangroves: **US\$3.9 billion p.a.**

**Shark watching tourism in Fiji
\$42 million in 2011**

**Whale watching tourism
in Tonga \$5 million p.a. in
2009**



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Threats to Biodiversity and Ecosystem Services



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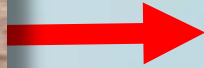
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Exploitation of natural resources:

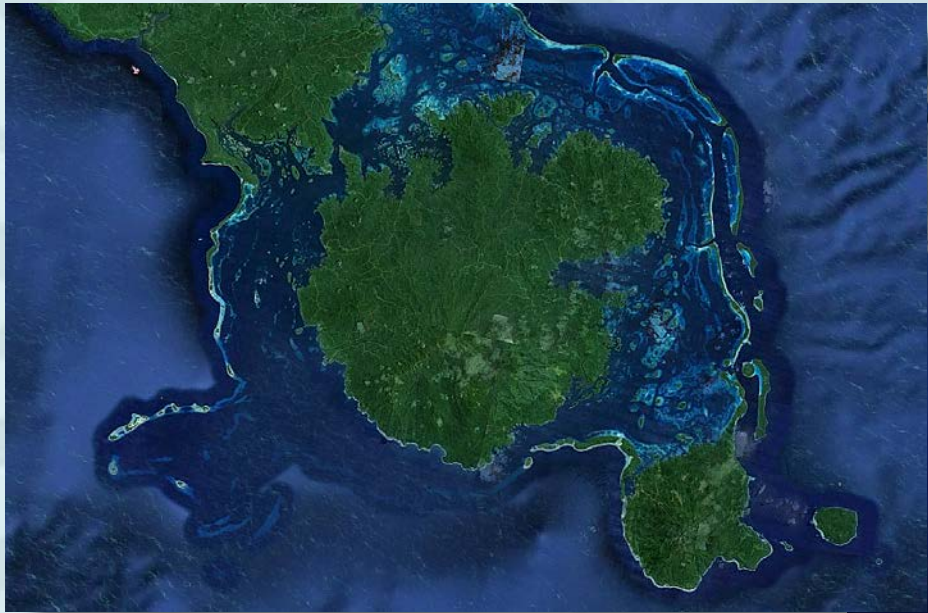
Impacts on freshwater supplies, flooding and coastal ecosystems



Forest Cover

- **0.4%** forest cover area lost per year between **2005 and 2010** - global deforestation average: **0.14%**. Most of the loss in Oceania in Papua New Guinea.
- Forest habitat loss mostly due to logging and agriculture

Marovo Lagoon, Solomon Islands 2011



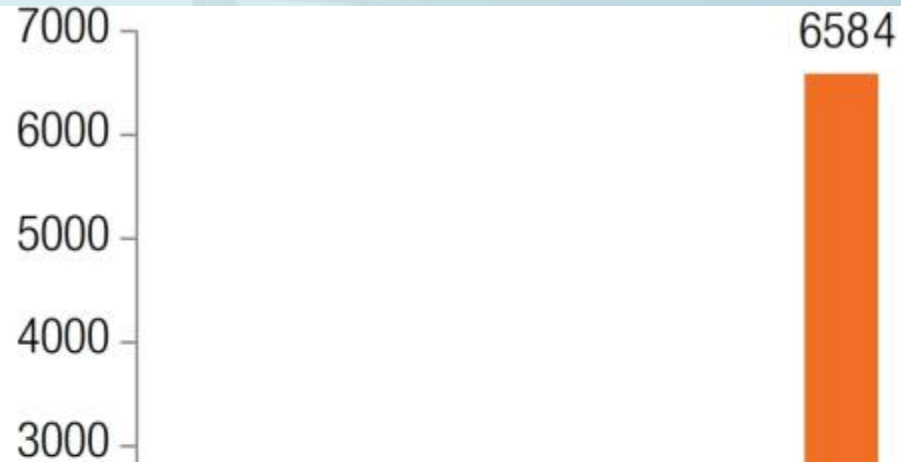
Algal bloom over 20+ km², possibly caused by sedimentation from logging operations

Introduced and Invasive Species

- **Primary threat to endemic and threatened species** in Oceania, as well as economies and livelihoods
- Region continues to have incursions of **new introduced and invasive species**, necessitating ongoing biosecurity improvements



ced/invasive species

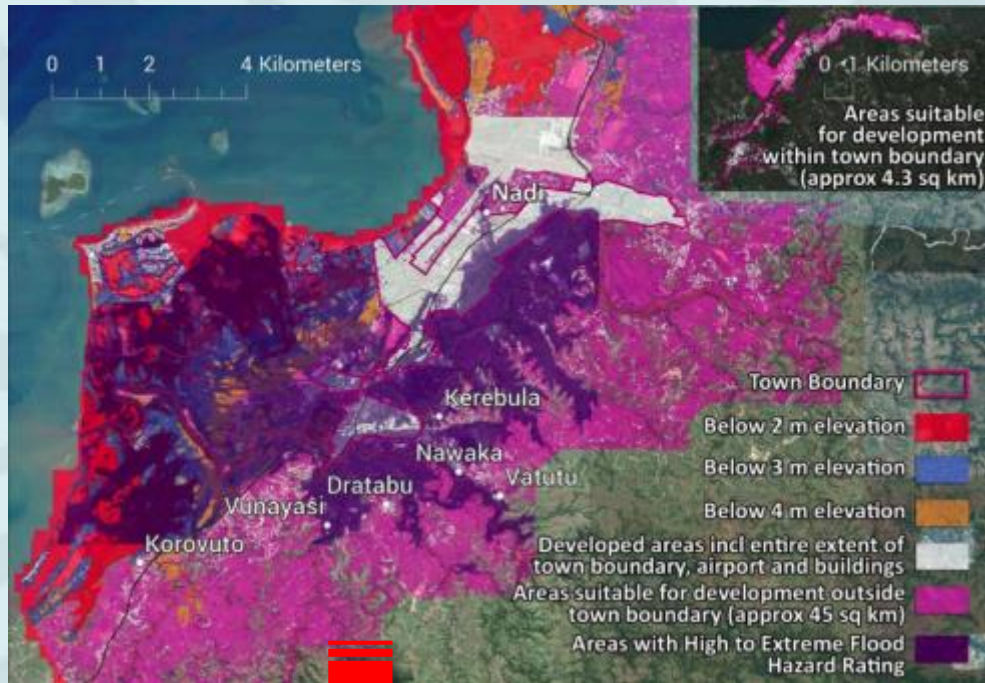


From:

Foucaud, J., Orivel, J., Loiseau, A., Delabie, J.H.C., Jourdan, H., Korghoulex, D., Voiniak, M., Tindo, M., Mercier, J., Fresneau, D., Mikissa, J., McGlynn, T., Mirhejryev, A.S., Oettler, J. and Estoup, A. (2010). Worldwide invasion by the little fire ant: routes of introduction and eco-evolutionary pathways. *Evolutionary Applications*, 1-13



Poor Development Planning - Contradict Policies and Commitments



Increasing Population Pressures and Urbanisation

+50% region's population is now urban

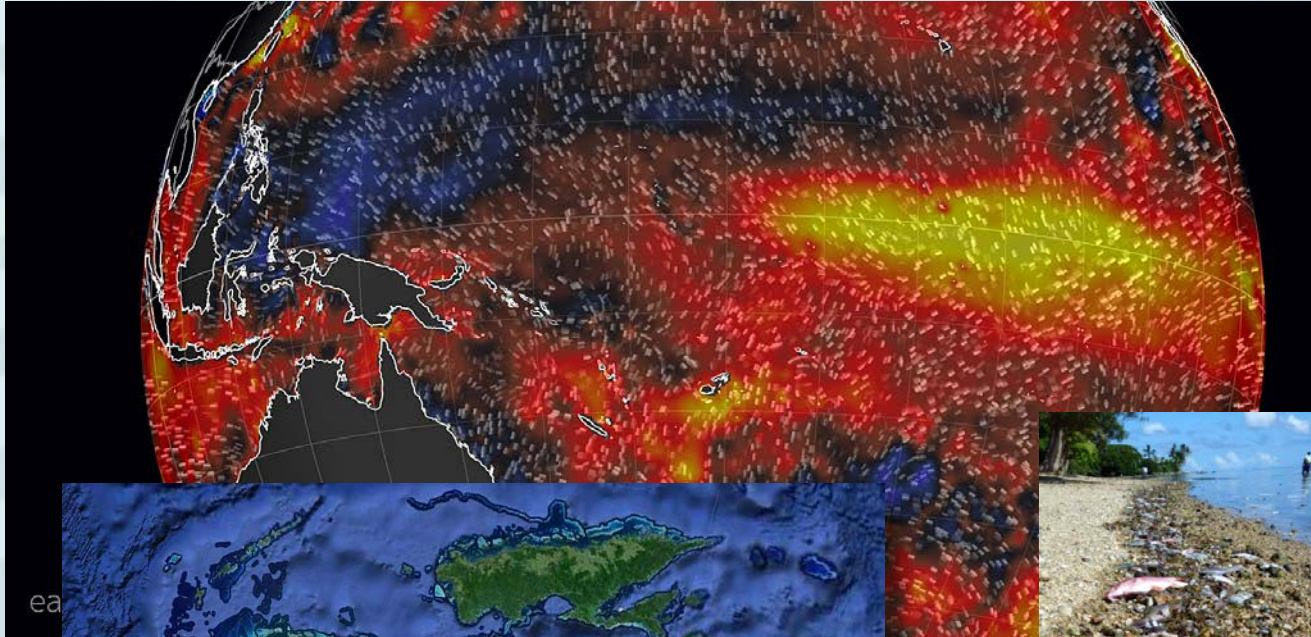


Pollution and Waste Management



El Nino and Increasing Sea Surface Temperatures

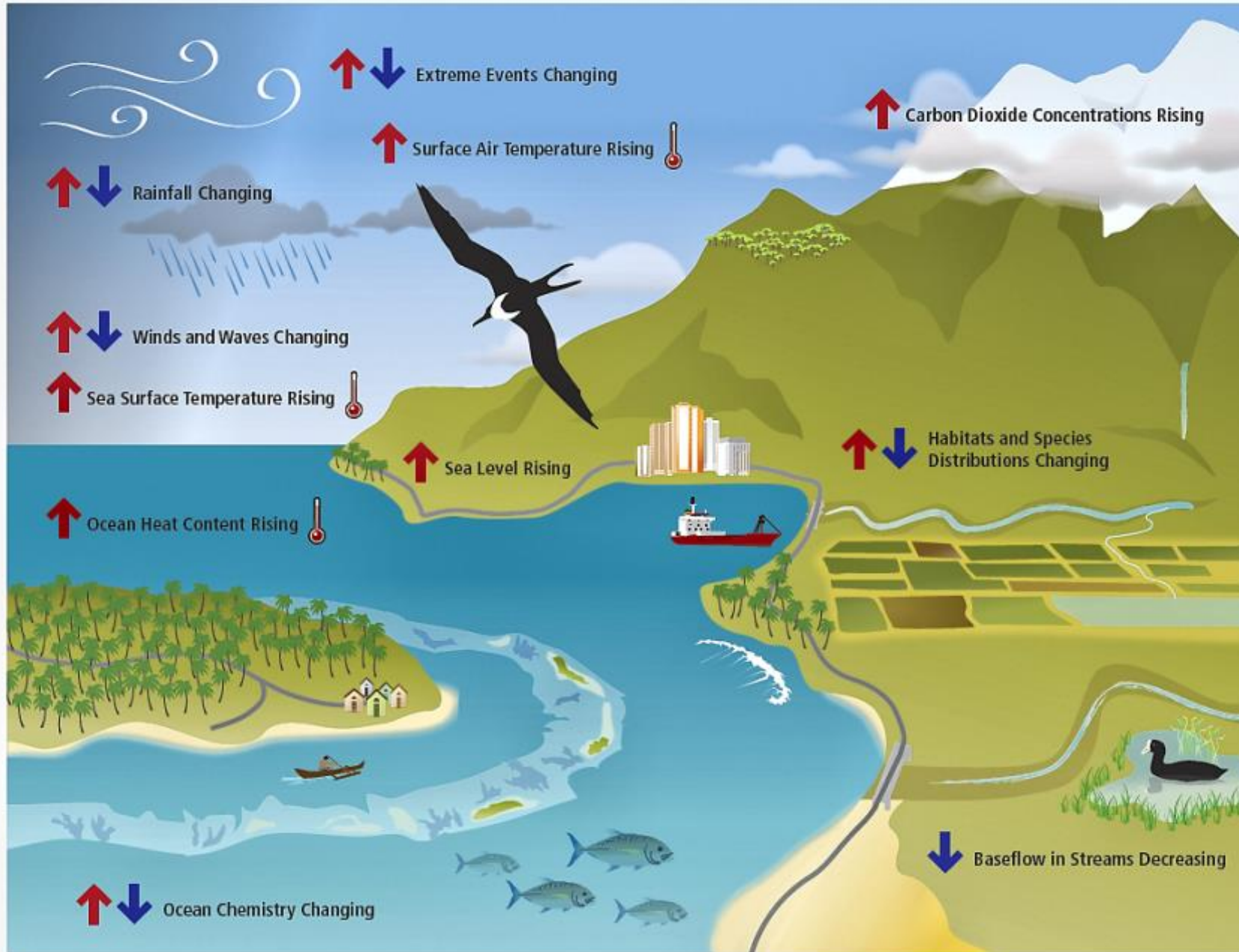
e.g. El Nino 2015-2016 event



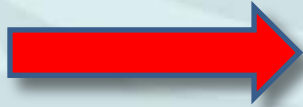
Major fish die-off
in Viti Levu south
coast lagoon



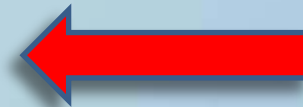
Climate Change in Pacific Islands Region



El Nino SST



Ocean Acidification



IPCC 5th Assessment Report:

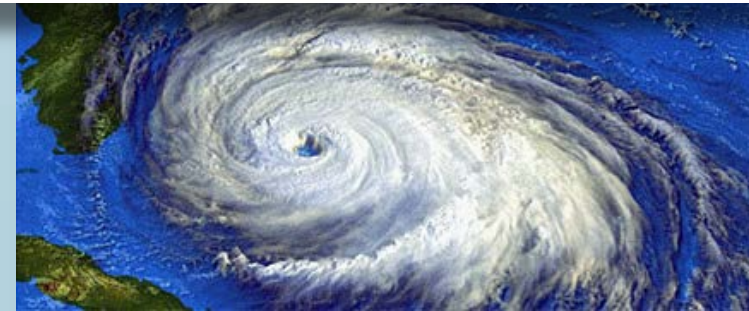
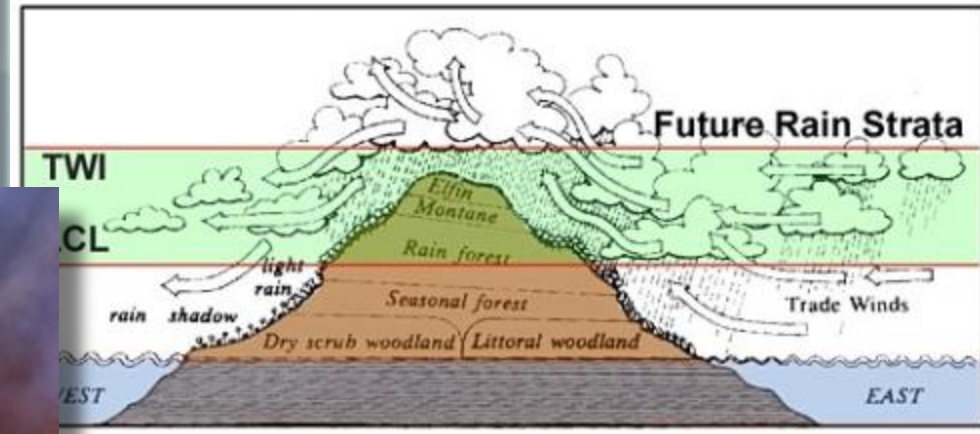
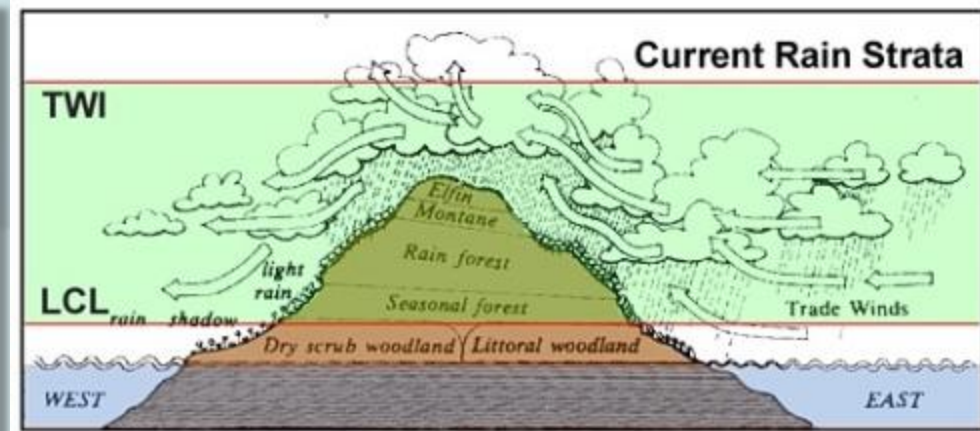
Even meeting emission control targets critical aspects of climate change are inevitable

“...even under good management...coral cover is expected to decrease from the present-day maximum of 40% to 15-30% by 2035 and 10-20% by 2050, matching the rate of decline over the past 30 years.

As coral cover decreases, the ability of corals to compete with macroalgae...for space will be reduced, **potentially leading to 40% seaweed cover on reefs by 2035**”. (Bell et al 2013)



Changing Rainfall Patterns and Weather Events



Responses to safeguard Oceania's biodiversity through Protected Areas

Marine and coastal protection: +6,000,000 km² : 20%

Terrestrial protection: +27,000 km² : <5%



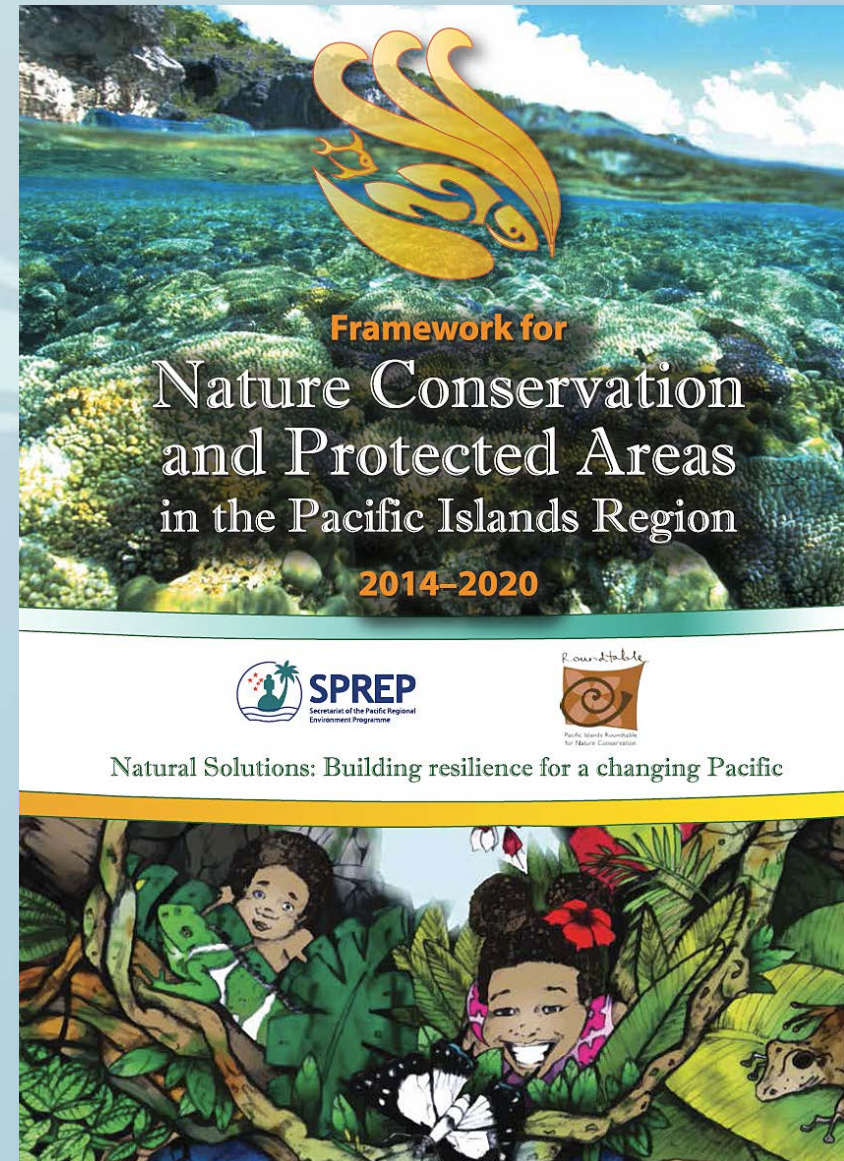
Regional Policies and Frameworks

“Oceania is vast, Oceania is expanding,
Oceania is hospitable and generous,
Oceania is humanity rising from the depths
of brine and regions of fire deeper still,
Oceania is us.

We are the sea, we are the ocean,
we must wake up to this ancient truth.”

Pacific Oceanscape Vision:

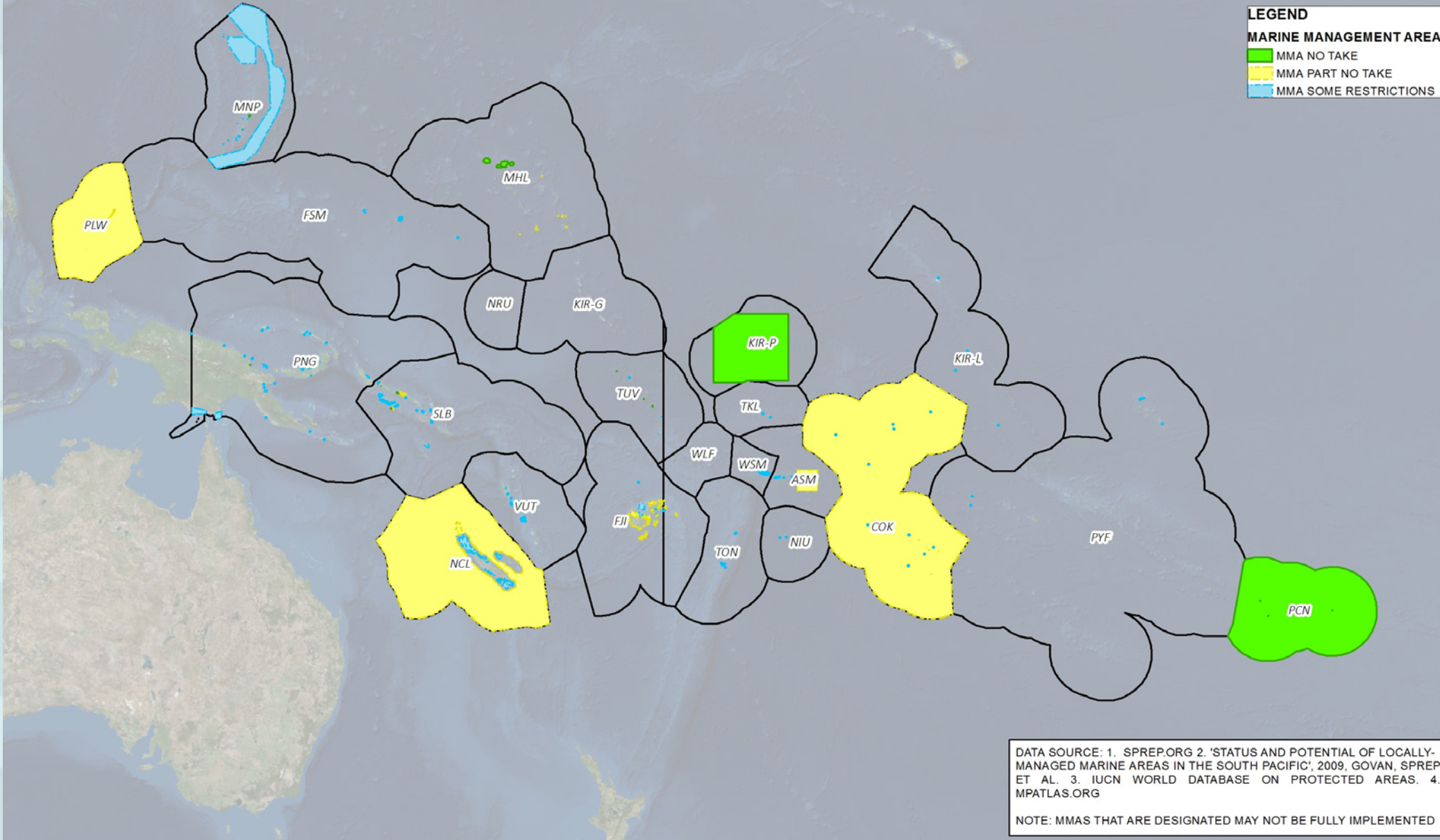
A secure future for Pacific Island Countries
and Territories based on sustainable development,
management and conservation of our Ocean.



LEGEND

MARINE MANAGEMENT AREAS

- MMA NO TAKE
- MMA PART NO TAKE
- MMA SOME RESTRICTIONS



DATA SOURCE: 1. SPREP.ORG 2. 'STATUS AND POTENTIAL OF LOCALLY-MANAGED MARINE AREAS IN THE SOUTH PACIFIC', 2009, GOVAN, SPREP ET AL. 3. IUCN WORLD DATABASE ON PROTECTED AREAS. 4. MPATLAS.ORG

NOTE: MMAS THAT ARE DESIGNATED MAY NOT BE FULLY IMPLEMENTED

SPREP
Secretariat of the Pacific Regional Environment Programme

0 345 690 1,380
Kilometers at A3
Datum: WGS84

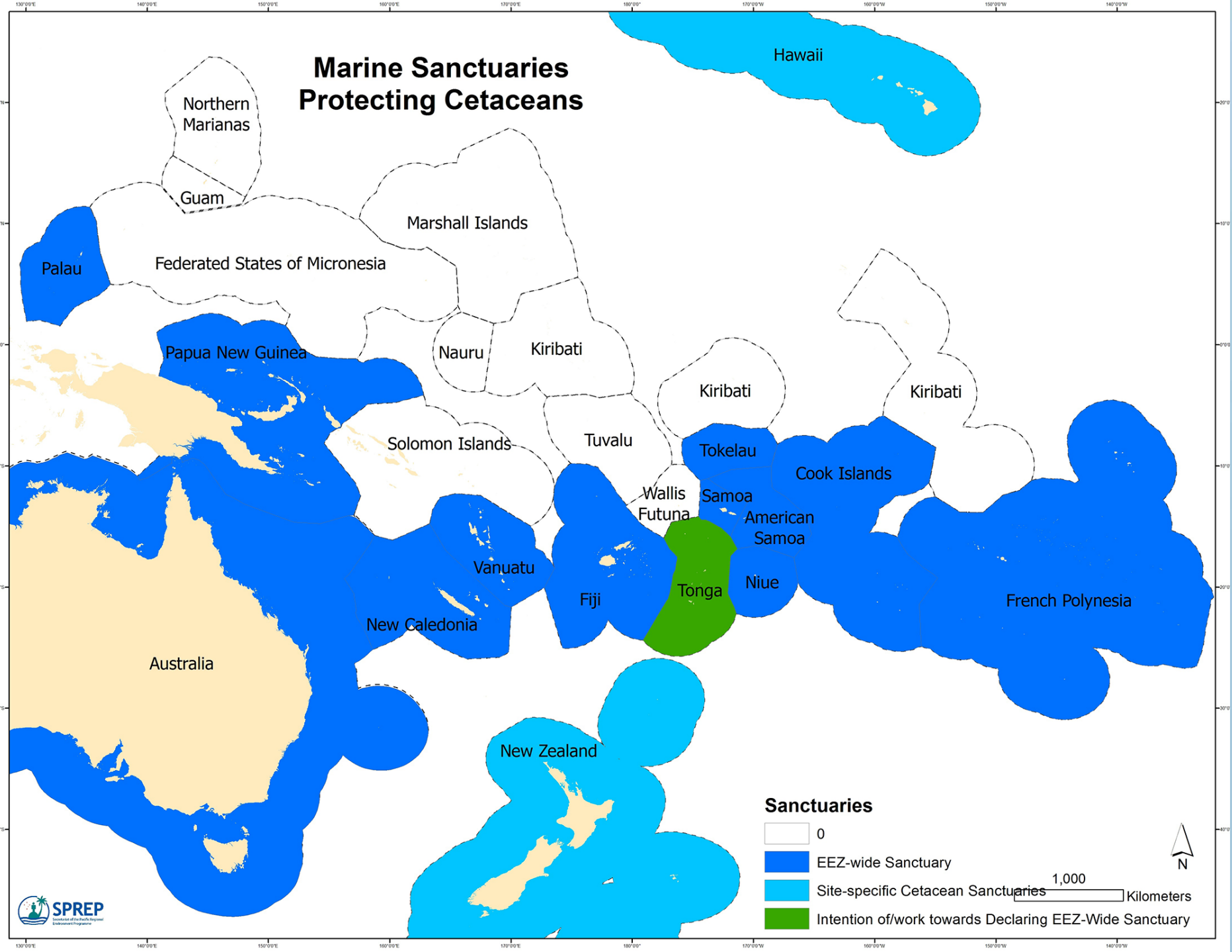
MMA % per EEZ Area (SPREP Member Only)	
Area	Km2
MMA Sept 2017 (SPREP member inc. Pitcairn)	6,091,419
EEZ Area (SPREP member inc. Pitcairn)	30,413,800
MMA % of total EEZs	20%

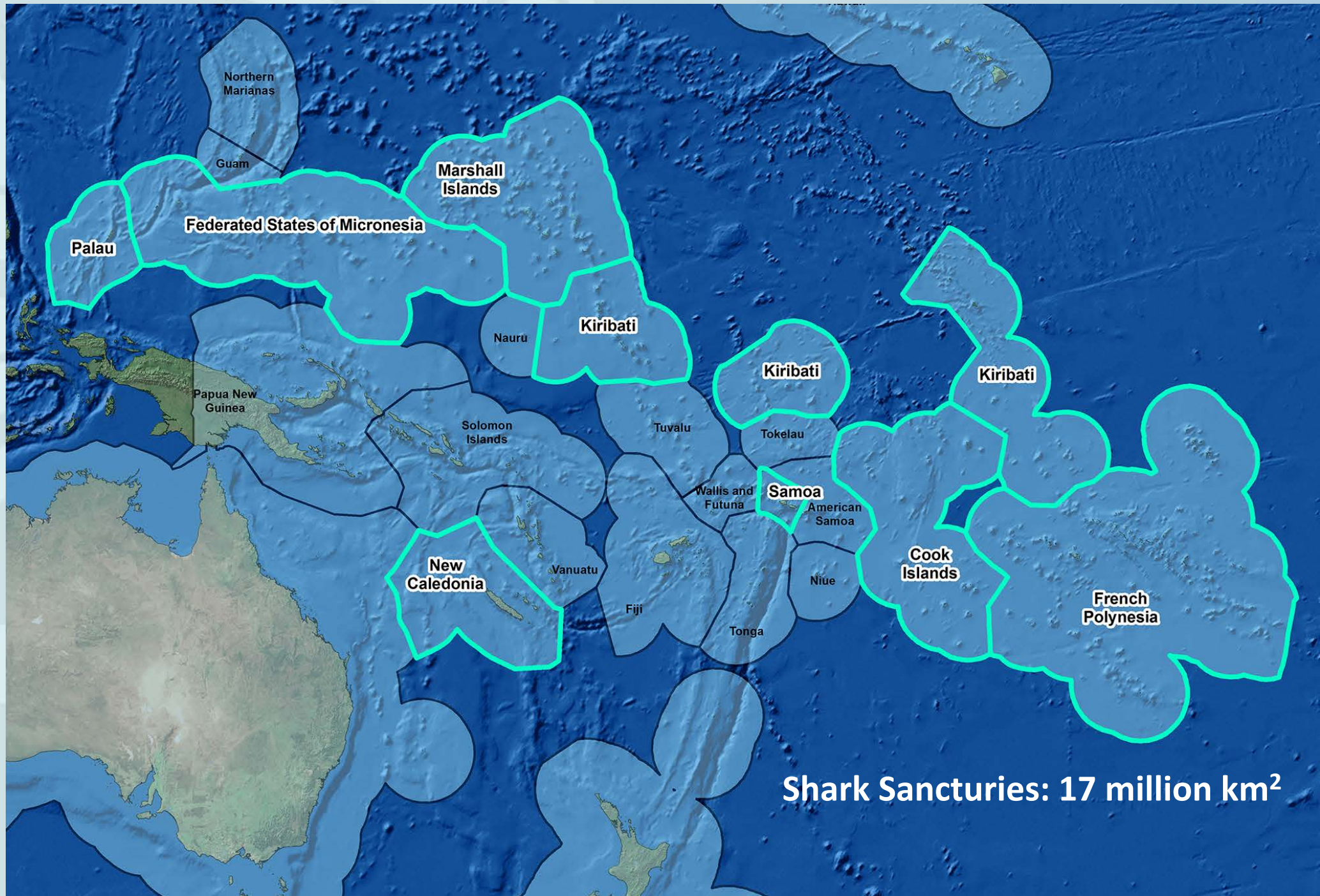


**MARINE MANAGEMENT AREAS
SPREP REGION SEPT 2017**

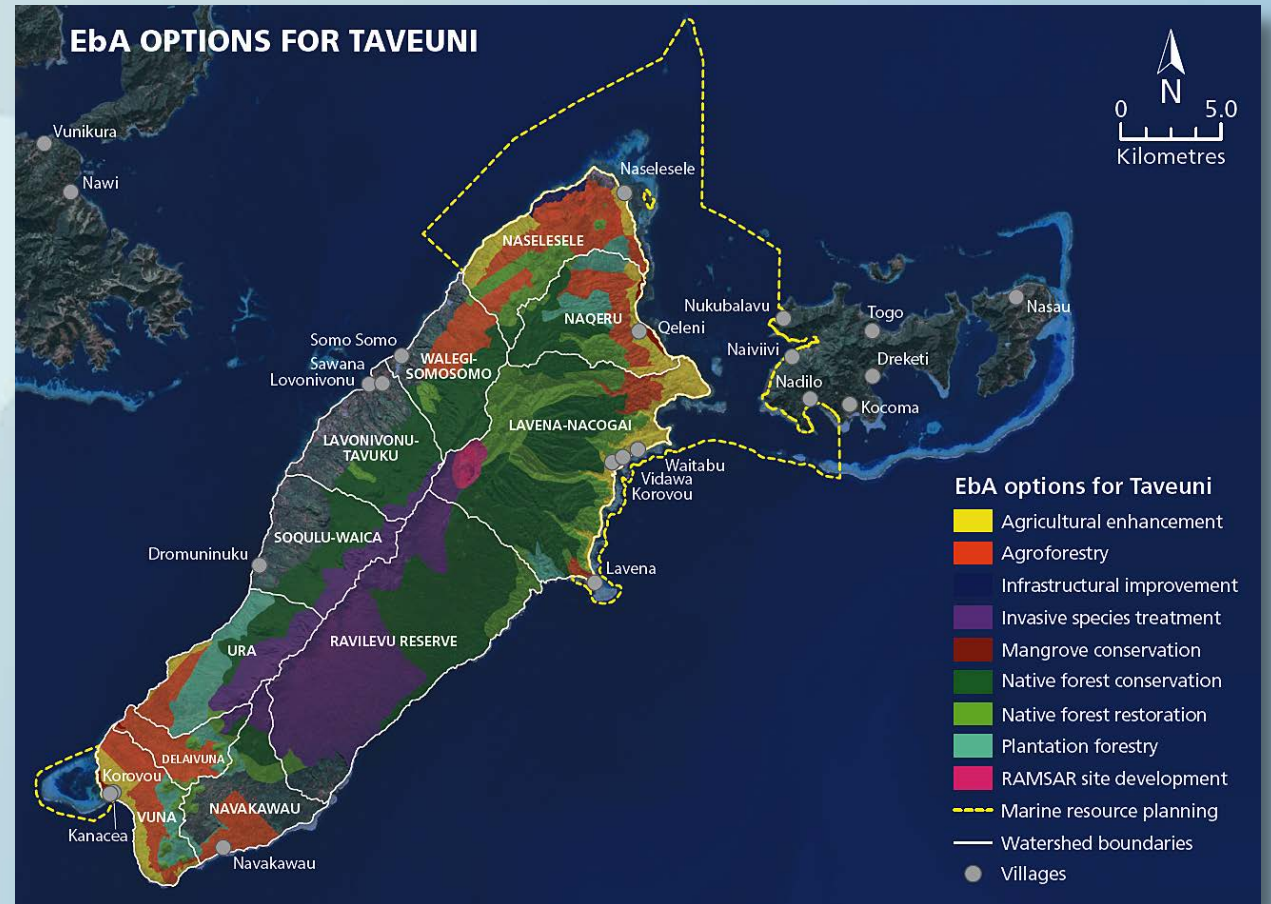
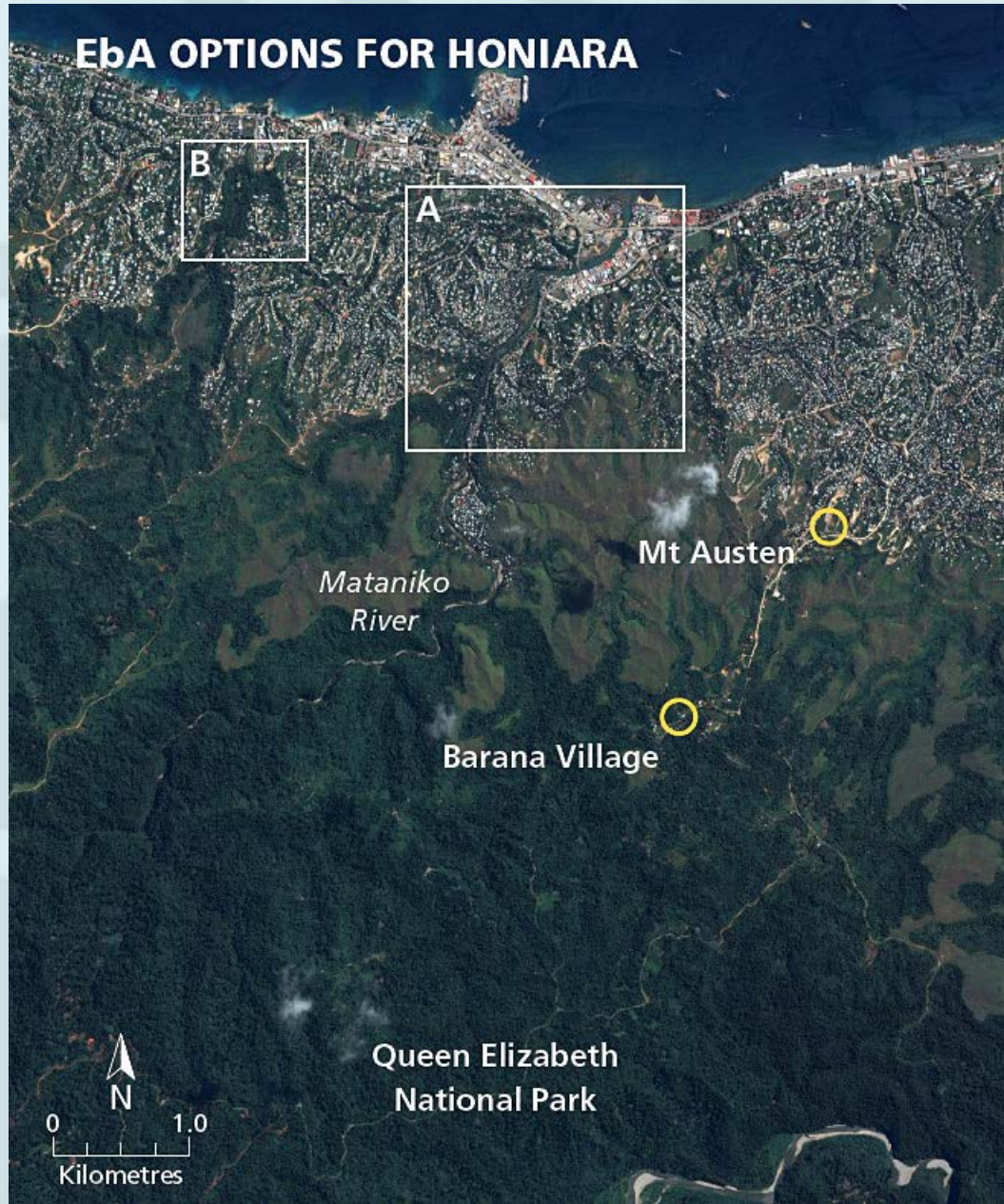
DATE: 07 Sep 2017 SCALE: 1:34,500,000
 PROJECT: GENERAL AUTHOR: Ryan Wright
 MAP: SPREP-EMG-2017-002_MMAs_SPREP_Sept17.mxd
 REV: A

Marine Sanctuaries Protecting Cetaceans







Building Protected Areas into Climate Change Adaptation Responses



Working at Landscape Scale



BEST OF THE WILD: WILDLIFE CONSERVATION SOCIETY and the
VATU-I-RA LAND/SEASCAPE



BirdLife INTERNATIONAL Partnerships for nature and people
PACIFIC

Important Bird Areas in the Pacific

14 sites across the Pacific region have been identified as Important Bird Areas (IBAs) in Danger. Many of the sites in the Pacific qualify as AZE (Alliance for Zero Extinction) sites.

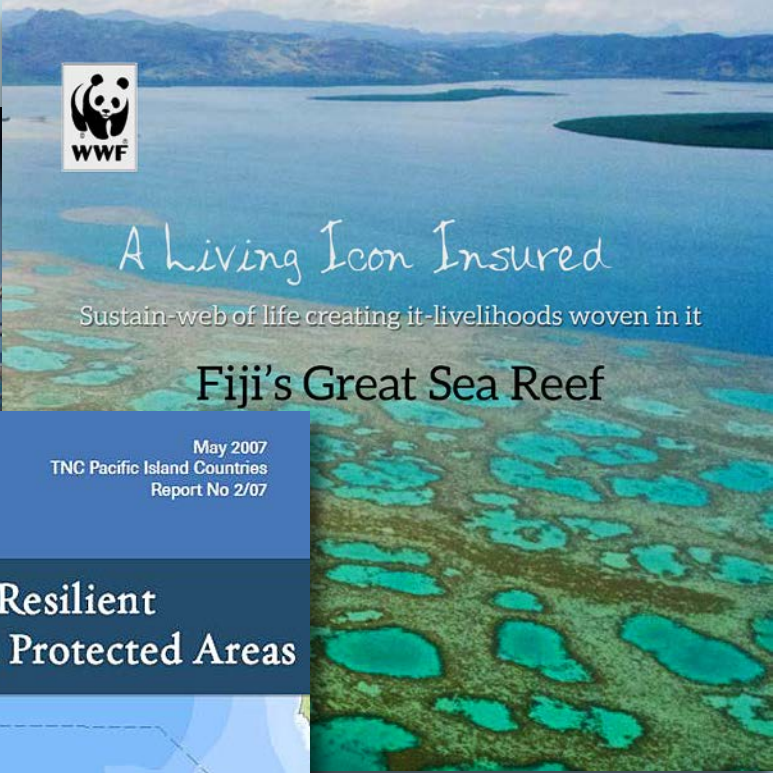
We now need to act now to deliver an effective response to these pressures

The Nature Conservancy Protecting nature. Preserving life.
USAID U.S. Agency for International Development

May 2007
TNC Pacific Island Countries
Report No 2/07

Scientific Design of a Resilient Network of Marine Protected Areas

Important Bird Areas

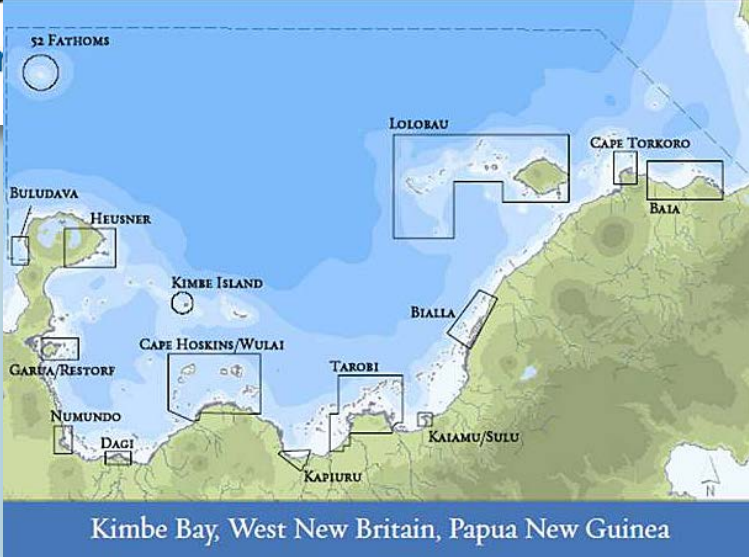


WWF

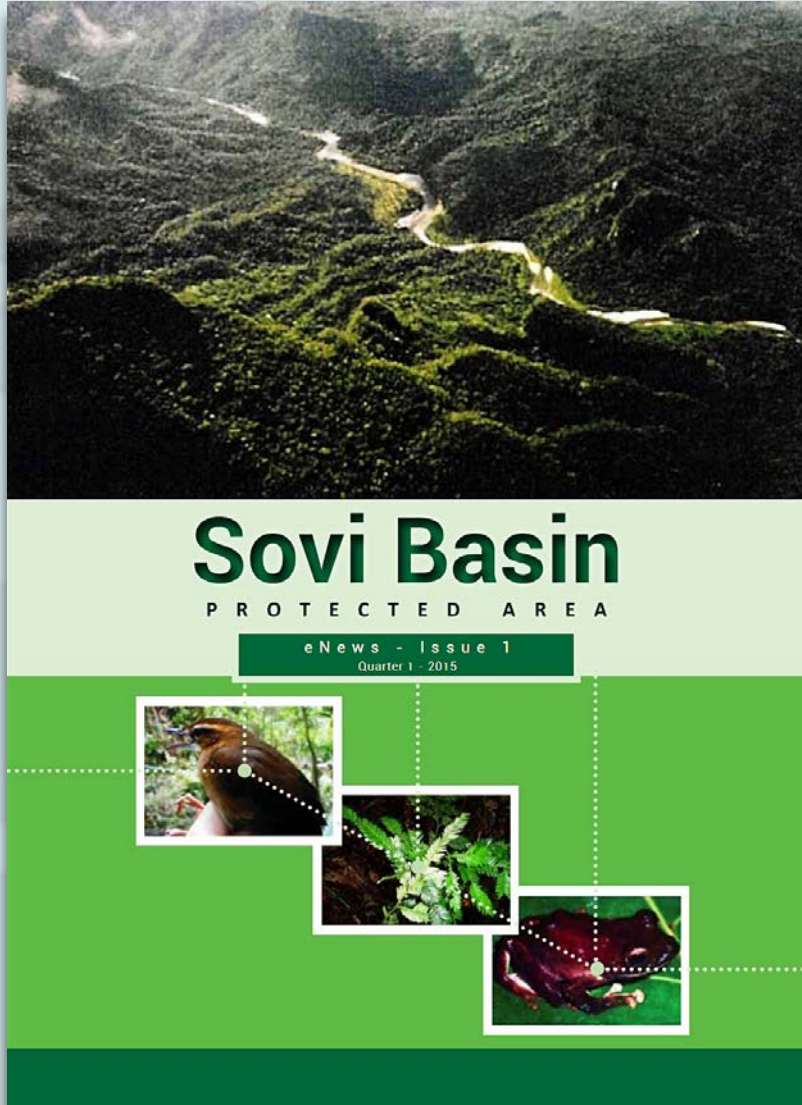
A Living Icon Insured

Sustain-web of life creating it-livelihoods woven in it

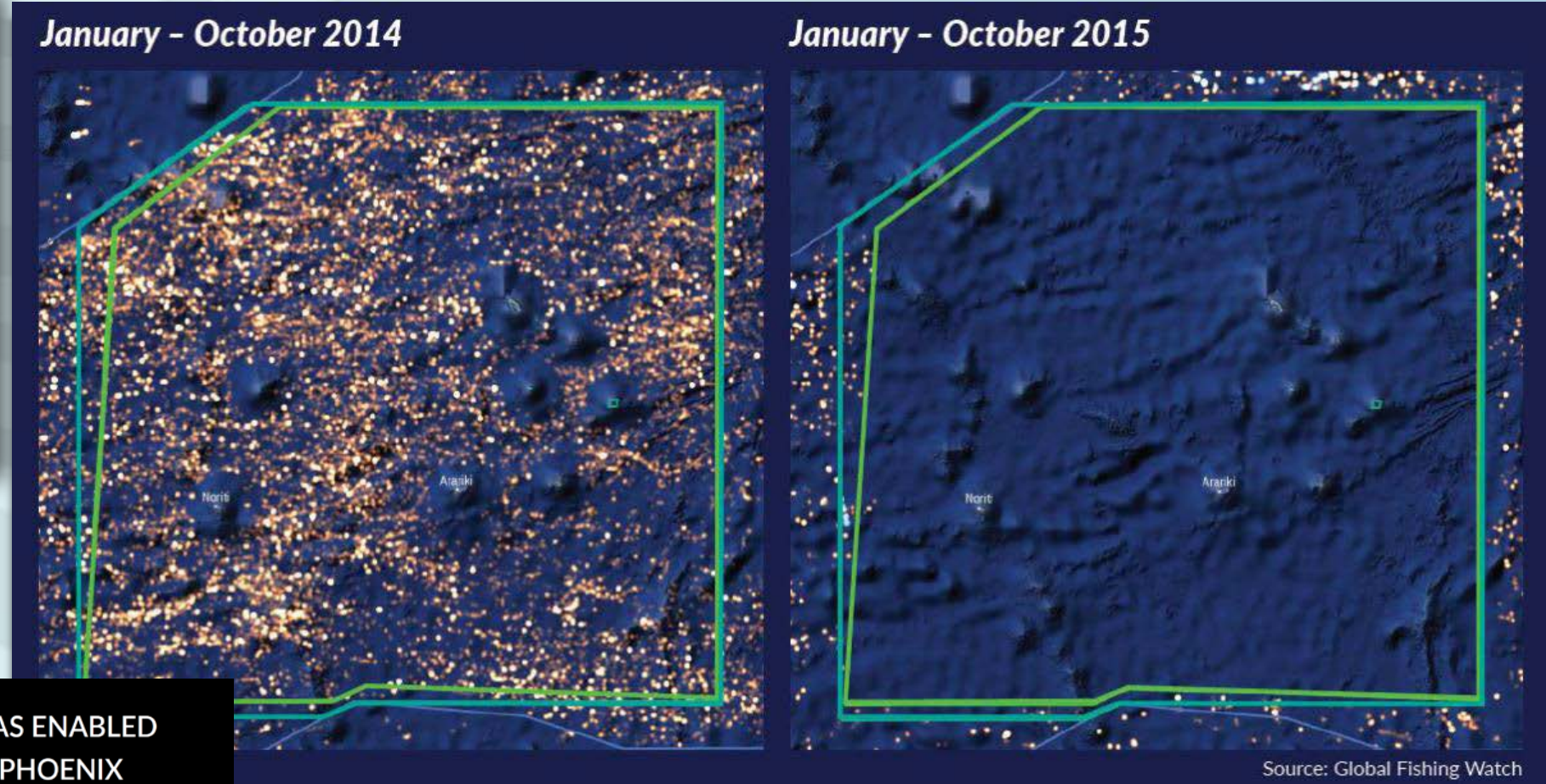
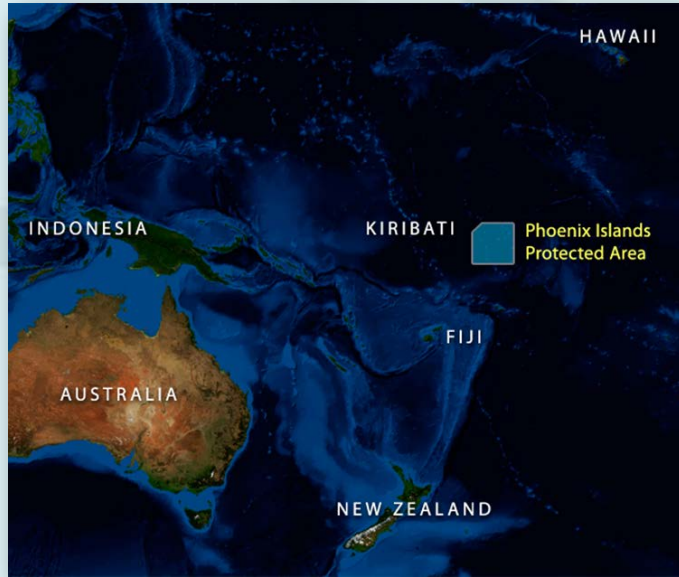
Fiji's Great Sea Reef



Working at Landscape Scale: Communities and Private Enterprise



Working with Partners to Monitor PAs

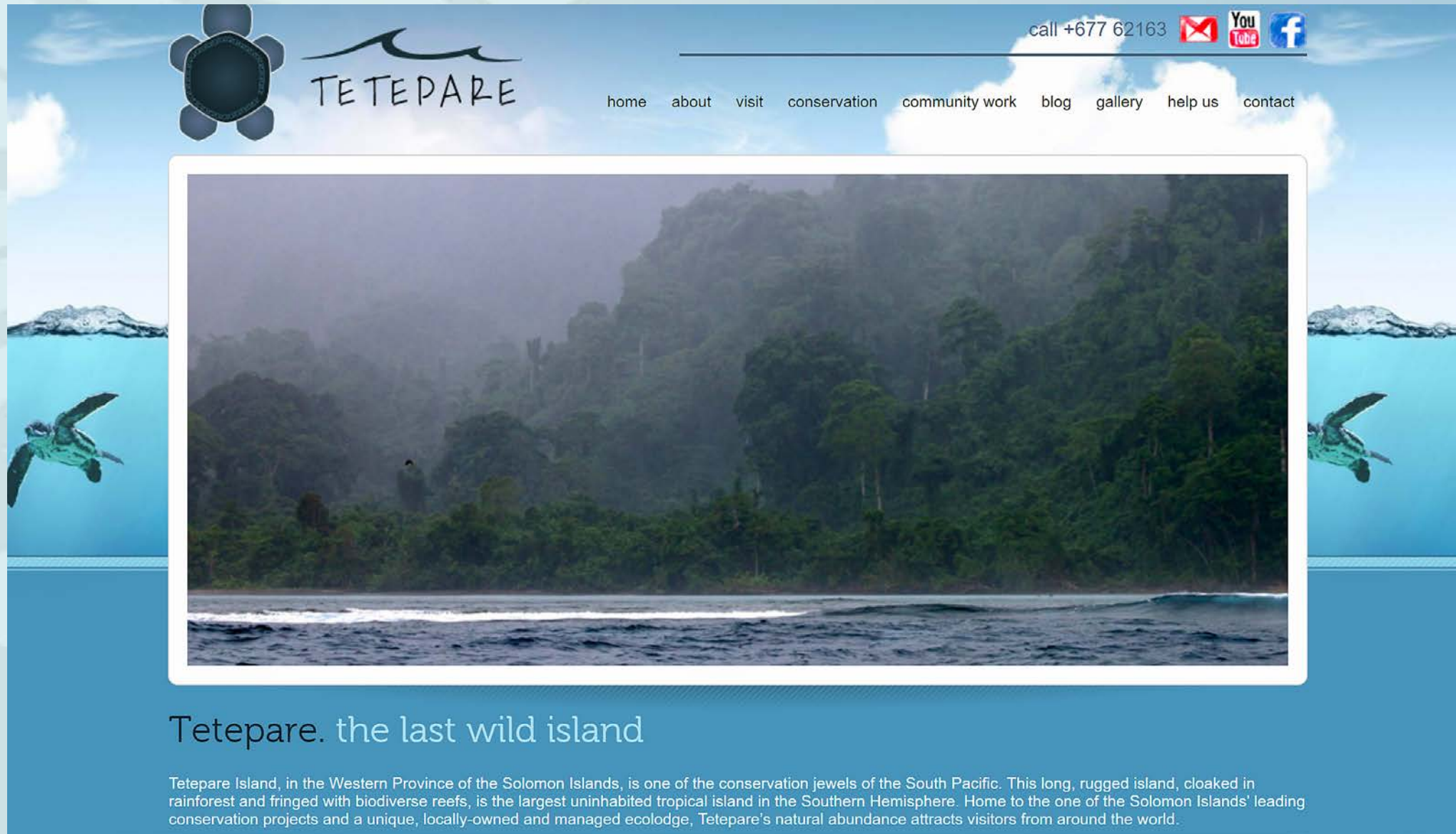


Source: Global Fishing Watch








GLOBAL FISHING WATCH HAS ENABLED OCEANA TO MONITOR THE PHOENIX ISLANDS PROTECTED AREA (PIPA) AND DOCUMENT A DRASTIC REDUCTION IN OBSERVED FISHING ACTIVITY FOLLOWING NEW REGULATIONS THAT ESTABLISHED IT AS A NO-TAKE AREA

Community initiatives




The screenshot shows the Tetepare website with a navigation menu and a large image of a tropical island. The navigation menu includes: home, about, visit, conservation, community work, blog, gallery, help us, contact. The large image shows a tropical island with a dense rainforest and a beach, framed by a white border. The background of the website is a blue sky with clouds and a blue ocean with a green sea turtle swimming.

call +677 62163   

  TETEPARE

home about visit conservation community work blog gallery help us contact



Tetepare. the last wild island

Tetepare Island, in the Western Province of the Solomon Islands, is one of the conservation jewels of the South Pacific. This long, rugged island, cloaked in rainforest and fringed with biodiverse reefs, is the largest uninhabited tropical island in the Southern Hemisphere. Home to the one of the Solomon Islands' leading conservation projects and a unique, locally-owned and managed ecolodge, Tetepare's natural abundance attracts visitors from around the world.

Whole-of-country/landscape Approach



**National policy
implementation**



**Sub-national policy
implementation**



**Community
engagement**

**Country-wide integrated
planning**

**Whole-of-island integrated planning, ridge to reef
approach, watershed management, etc**

Concluding thoughts....

- Working with communities and governments – connecting and supporting
- Working at scale
- Improving our knowledge base – surveys, BIORAPs, SOCO, NBSAPs
- Monitor impact and progress or lack of it
- Address critical invasive species issues
- Strengthen planning and management capacity
- PA solutions that work in the Pacific context
- Secure sustainable financing
- Link PAs to other ongoing critical issues: climate change and resilience building



Thank you



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BIOPAMA

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www.biopama.org

The Biodiversity and Protected Areas Management Programme (BIOPAMA) is an initiative of the ACP Group of States funded by the European Union's 11th European Development Fund.



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