



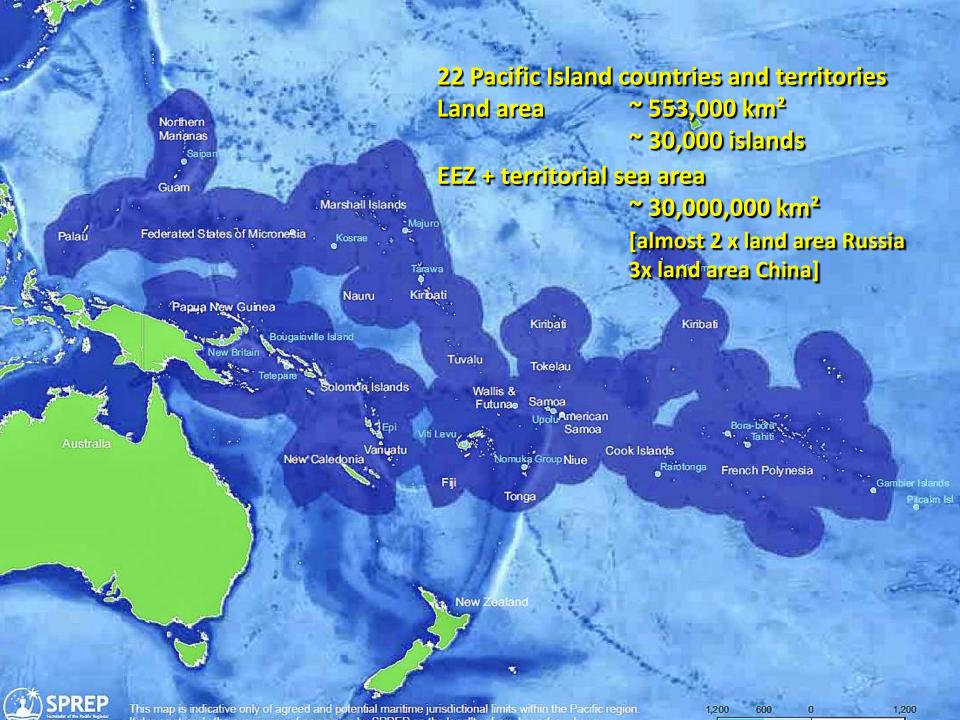
Background

- Need for assessment of the status of biodiversity and conservation in Oceania
- Input to the conference
- Assist with development of the next Action Strategy or its equivalent
- Start of long term, periodic monitoring process
- Commissioned a consortium led by IUCN to undertake the work
- Summary of the synthesis report

SCOPE



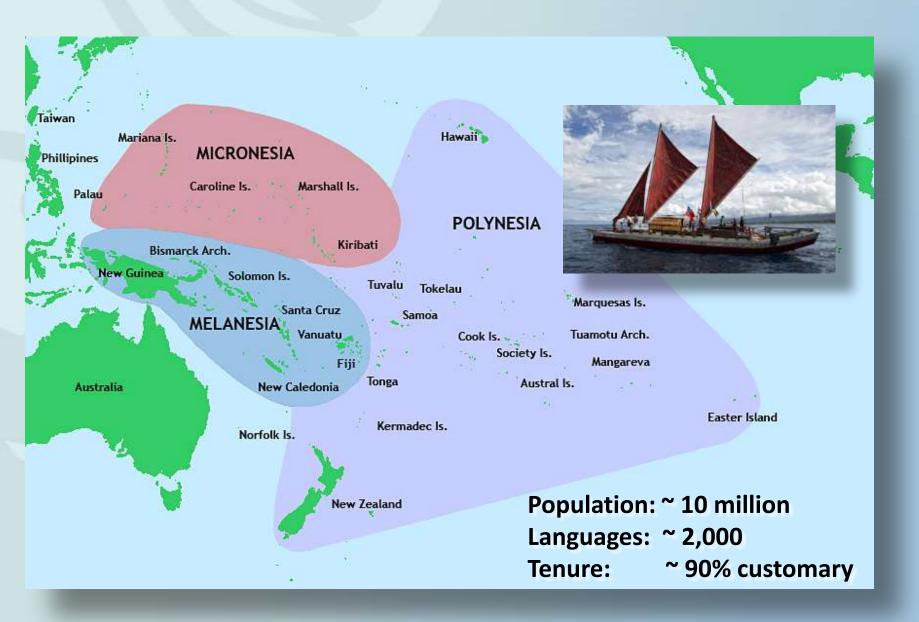
Pacific Islands Region



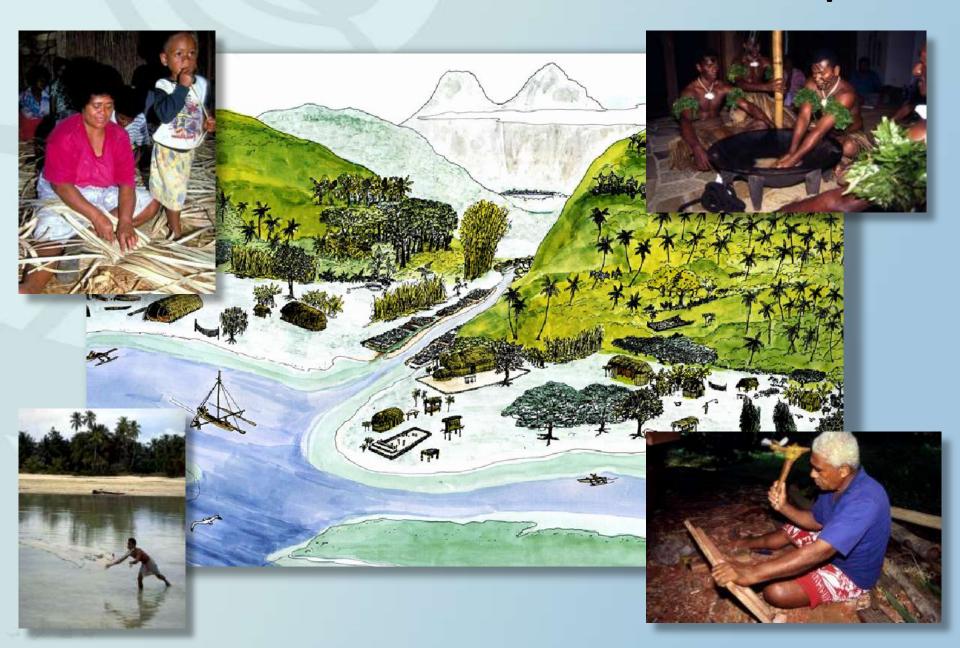
Island Ecosystem Diversity



Cultural Diversity



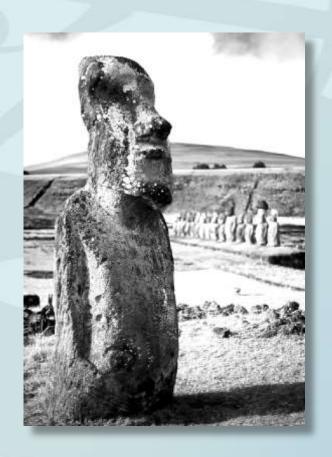
Historic Cultural & Social Interrelationships



Early Impacts on Biodiversity



1000s of early extinctions and ecosystem transformation



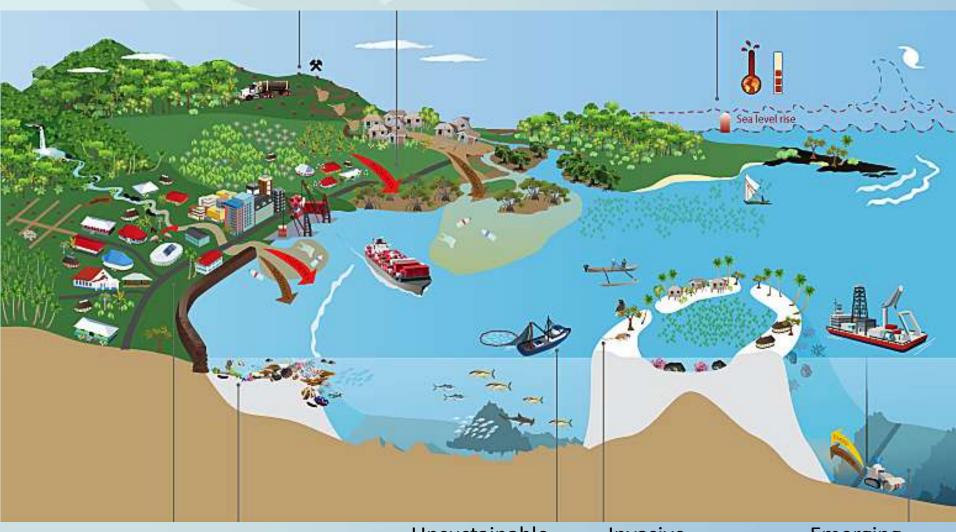


Environmental degradation a key factor in social collapse of some island societies

Increasing Environment and Development Issues

Mining and Logging Pollution and Waste

Climate Change



Coastal Development

Unsustainable Fishing

Invasive Species

Emerging Uses



Pacific island people reliant on natural resources



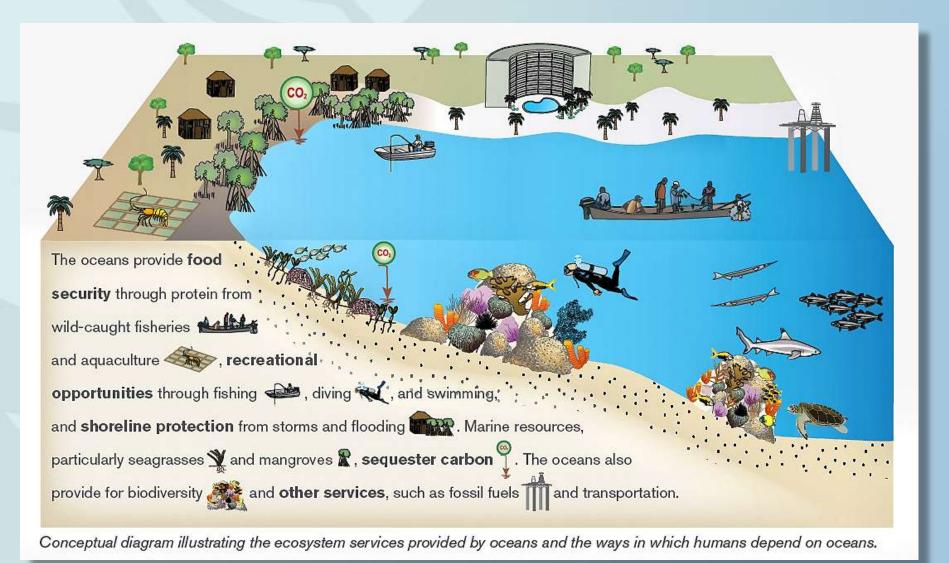








Ecosystem services even more important today



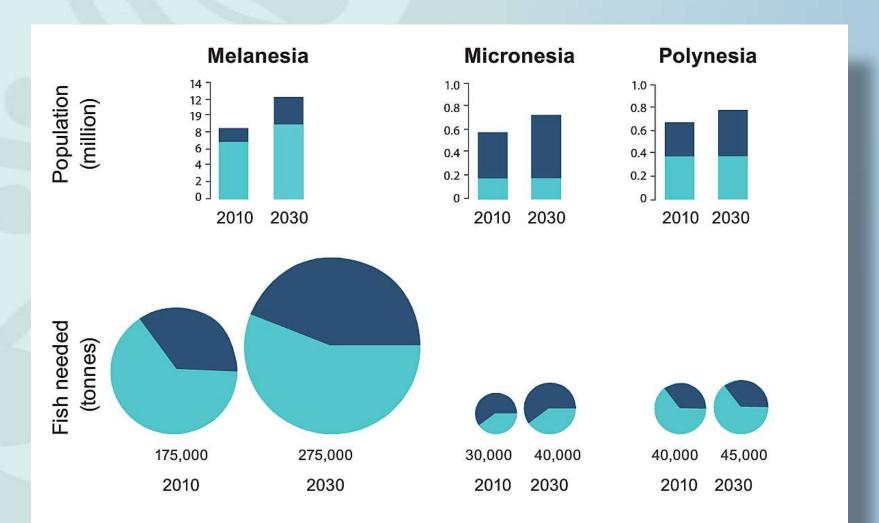
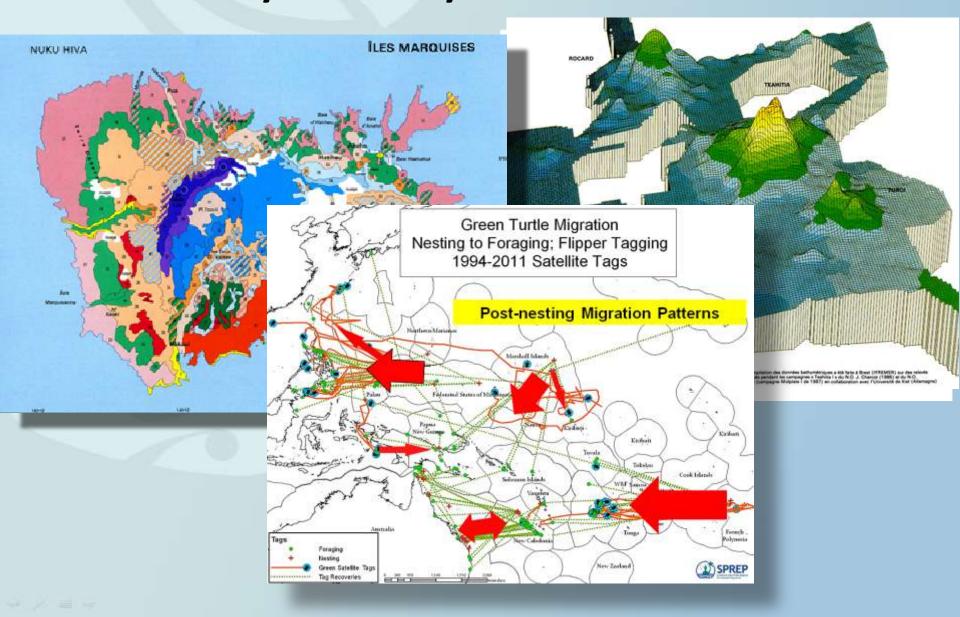
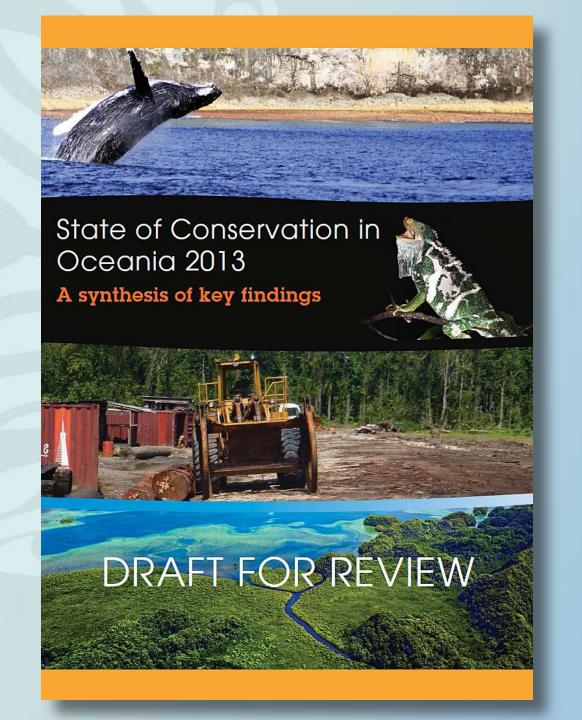


Figure 1.8 Forecasts of population growth, and the fish needed for food security in rural (■) and urban (■) areas of Melanesia, Micronesia and Polynesia in 2030 (source: SPC).

Need to Improve our Knowledge of Biodiversity and Ecosystem Services and Issues





SOCO Process 9th PINCPA **Draft Synthesis** Conference Report Regional assessment report **SOCO Comments to** SPREP by 15 **Assessment** January 2014 **Team Draft PICT PICT Reviews Reports Country and** territory assessment reports **Comments to SPREP**

Methodology

Pressure/Threat	State	Response	
Forest cover	Environmental governance: international treaties		
Freshwater ecosystems	Environmental governance: national polices and legislation		
Coastal ecosystems		Traditional governance	
Marine ecosystems		Protected areas and protected area coverage: ecoregions and species	
Important biodiversity areas			
Native species	Species diversity: abundance, distribution and extinction risk	National biodiversity strategies and action plans	
Invasive/introduced species	Invasive alien species management		

Methodology

Pressures and Threats

Factors and drivers of environmental change impacting on Oceania's biodiversity

State

Current health of key habitat types and resources across Oceania

Response

Action being taken to improve the health and sustainability of Oceania's biodiversity

Data

Best available existing

STATUS

For Pressures and threats, status represents assessed level of threat, from minimal (Good) to high (Poor).

Status

Trend

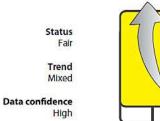
Medium

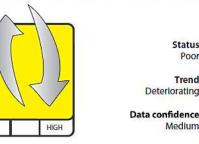
Poor

For State of conservation, status represents the current condition of biodiversity, habitats and ecosystems (Good to Poor) For Responses to safeguard biodiversity, status represents assessed level and effectiveness of activity to protect biodiversity (Good to Poor).

TREND

For each indicator, this assesses whether things are getting better or worse, or are staying about the same. For some indicators there was insufficient information to judge the trend or even to determine the current state at regional level.











MIXED: some aspects have improved and some have worsened

DETERIORATION: The state of biodiversity related to this indicator has worsened

IMPROVEMENT: The state of biodiversity related to this indicator has improved

UNDETERMINED: Not enough information was available to determine a baseline

BASELINE: Some aspects have improved and some have worsened

DATA CONFIDENCE

This provides an estimate of the amount and quality of data available that was used to assess the trend for each indicator.

HIGH: A large amount of recent data available

MEDIUM: A moderate amount of recent and relatively recent data available

LOW: Not enough information was available to determine a baseline

Overall PRESSURE Indicators

Status Fair

> Trend Mixed

Data confidence Medium



Forest cover

Status Fair

Trend Deteriorating

Data confidence Medium



Ocean health

Status Fair

Trend Deteriorating

Data confidence



Freshwater ecosystems

Status Poor

Trend Deteriorating

Data confidence Medium

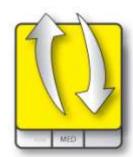


Important biodiversity areas

Status Fair

Trend Mixed

Data confidence Medium



Coral reefs

Status Fair

Trend Mixed

Data confidence Medium



Native species, single country endemic species & endangered and migratory marine species

Status Fair

Trend Deteriorating

Data confidence Low



Mangroves & seagrasses

Trend Deteriorating

Status

Poor

Data confidence Medium



Invasive species

Status Fair

Trend Deteriorating

Data confidence Medium



Status Fair

Trend Mixed

Data confidence High



Forest cover, freshwater ecosystems, ocean health, utilised marine species





Important
bird &
biodiversity
areas &
biologically
significant
marine
areas

Coral reefs

Status Fair Trend Improving Data confidence

Data confidence Medium

> Status Fair

Trend Deteriorating

Data confidence Medium



Mangroves



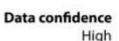


Species
diversity:
abundance,
distributions
& extinction
risk

Seagrass

Overall STATE Indicators

Status Good Trend Improving





Environmental governance: international treaties



Trend Improving

Data confidence Medium



National biodiversity strategies & action plans

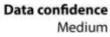




Environmental governance: national policies & legislation

Status Poor Trend







Protected land & sea areas



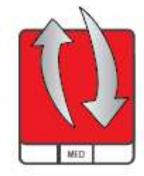


Environmental governance: traditional governance

Poor

Trend Mixed

Data confidence Medium



Protected area coverage: ecoregions & species

Overall RESPONSE indicators

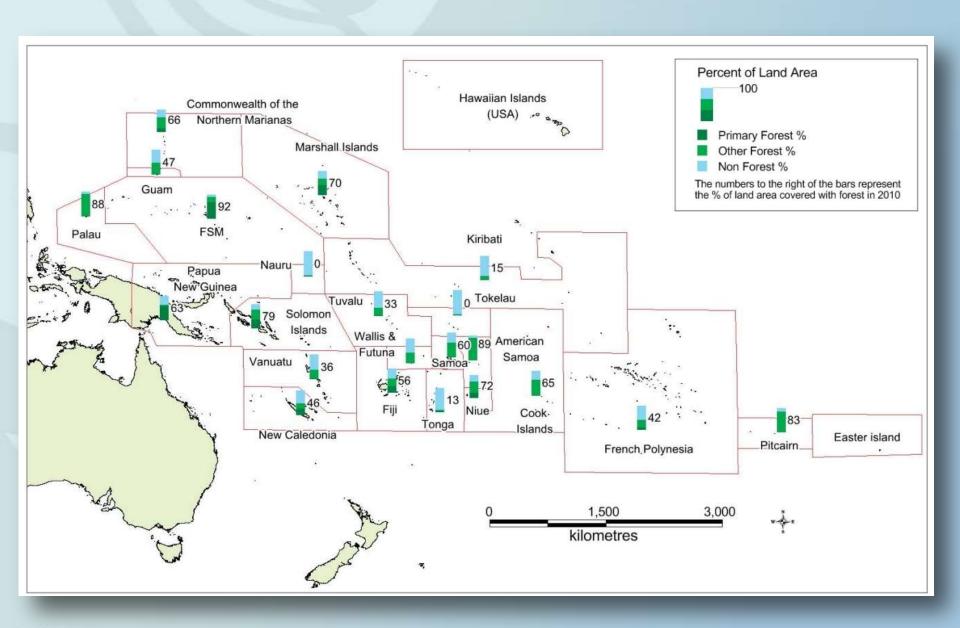
Status
Fair
Trend
Mixed

Data confidence
Medium



Invasive alien species management

Forest cover on Pacific island countries and territories



Forest Cover: Summary Findings

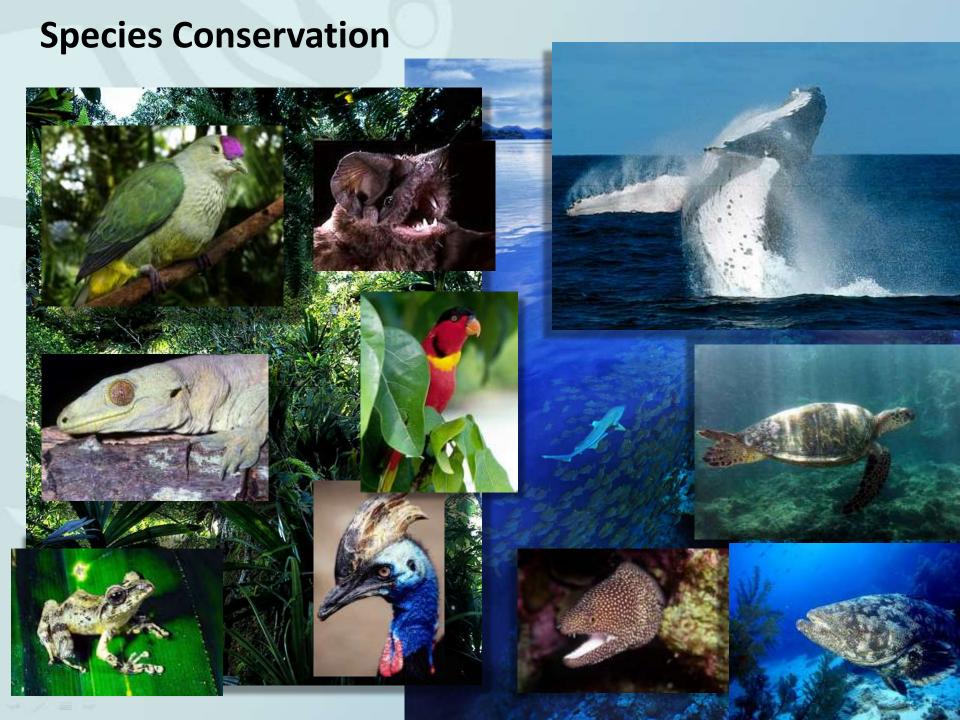
Pressures/Threats

- 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
- Forest degradation is also caused by natural disasters such as cyclones and fire and the spread of invasive species.
- Population growth likely to increase pressure
- Climate change expected to have significant, but as yet unpredictable, impacts

Forest Cover: Summary Findings

Current State

- Many countries and territories of Oceania have relatively high forest cover, with an average of 61% of land area covered in forest in 2010, higher than the global average of 31%
- Highest percent forest cover: FSM with 92%
- Papua New Guinea, 91% is classified as primary forest
- In some smaller countries area of uncleared primary forest is almost 0%
- Forest quality declining more open forest and invasive species altering forest ecosystems
- Very little lowland forest remaining
- Most only have low percentages of their land area formally protected

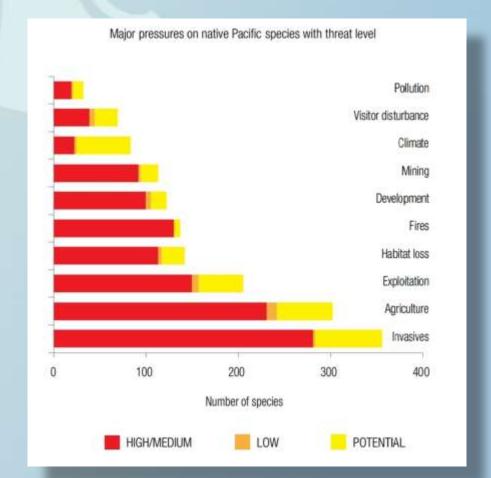


Species Conservation

Pressures/Threats

 Invasive species - highest impact on largest numbers of terrestrial threatened endemic, non-endemic and critically endangered species, followed by impacts of habitat loss due to

agriculture and forestry



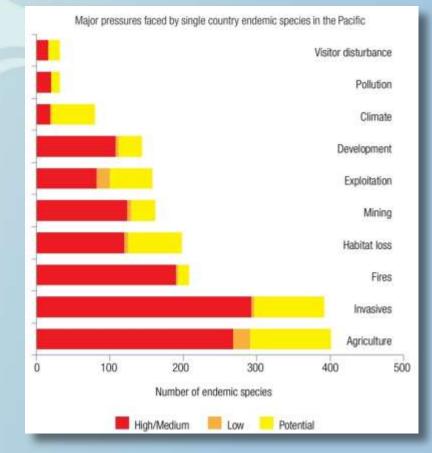
Species Conservation Pressures/Threats: Endemic Species

Of 2,189 single country endemic species recorded across
 Oceania 115 (5.3%) are already extinct and 12 (0.5%) now exist only in captivity

930 of the 2062 extant single country endemic species (nearly

45%) are at a risk of extinction





Species Conservation

State

- 1,327 Oceania species are vulnerable, endangered or critically endangered: 127 species already extinct
- For >800 species endangered status not known
- 23% Pacific island species assessed for IUCN Red List are threatened
- Of 316 mammal species almost 20% are threatened with extinction
- Recent surveys of freshwater fishes, land snails, and of reptiles have filled some of the gaps in Oceania biota knowledge

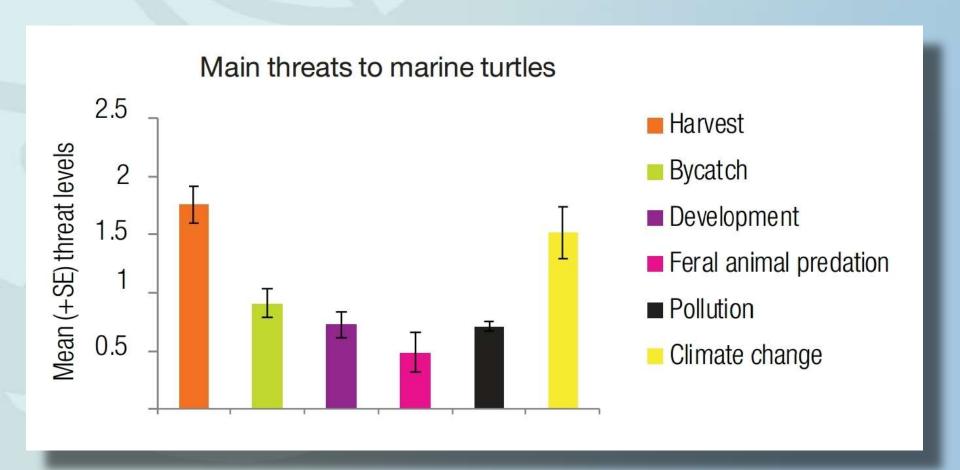


Summary of our current knowledge of endemic species in Oceania.

Country	No.	No. threatened	% threatened
American Samoa	7	5	71
Cook Islands	25	5	20
Fiji	260	145	56
French Polynesia	344	102	30
Federated States of Micronesia	88	16	18
Guam	48	4	8
Kiribati	1	1	100
Marshall Islands	1	0	0
Nauru	1	1	100
New Caledonia	511	355	69
Niue	1	1	100
Northern Mariana Islands	7	5	71
Palau	81	38	47
Papua New Guinea	602	172	29
Pitcairn	16	16	100
Samoa	21	7	33
Solomon Islands	116	32	28
Tokelau	0	0	0
Tonga	12	6	50
Tuvalu	0	0	0
Vanuatu	40	15	38
Wallis & Futuna	7	4	57

Utilised marine groups assessed for the IUCN Red List of threatened species

Group	Total Oceania species	% threatened in Oceania	% data deficient in Oceania
Sharks	75	27	25
Groupers	60	7	23
Angelfishes	52	0	0
Butterfly fishes	59	0	5
Parrotfishes	40	3	0
Wrasses	209	0	8
Sea turtles	5	100	0
Marine mammals	36	17	53



Coastal and Marine Ecosystems

Pressures/Threats

- Over-exploitation of resources
- Climate change: rising sea temperatures, acidification and deoxygenation' loss of 13% of mangrove area by 2100
- Habitat destruction, extractive activities, pollution and invasive species are also serious threats
- Reefs are vulnerable to elevated sea temperature and acidity, cyclones, predation and disease, increased water turbidity, overfishing and pollution as well as physical breakage from coastal developments
- By 2050 most reefs in the Pacific are predicted to be rated as threatened, with more than half rated at high, very high, or critical levels

Coastal and Marine Ecosystems

State

- Oceania supports the world's largest tuna fisheries and stocks of the major species must be sustainably managed if they are to continue to support island economies
- 70-80% of the catch from inshore fisheries is used for subsistence purposes, with around 20% going to markets
- Exploitation of beche-de-mer, trochus, live coral and live reef fish for international markets has depleted stock in some areas
- Cetaceans and marine turtle species feed and migrate through
 Oceania and the Pacific region supports the world's largest
 remaining nesting populations of green and hawksbill turtles

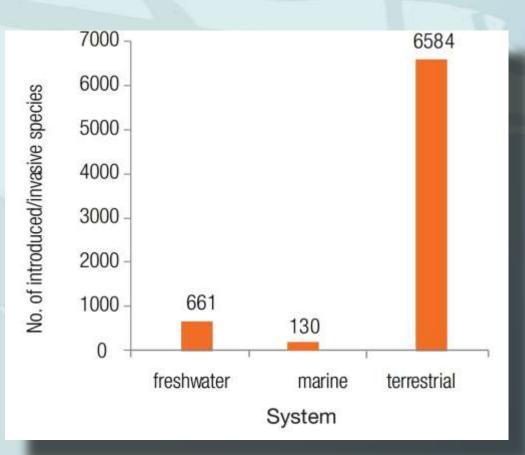
Coastal and Marine Ecosystems

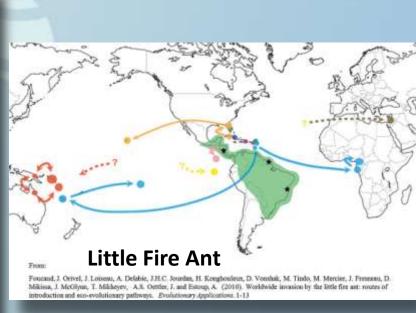
State

- Coral reefs are vital to land protection and food security across
 Oceania.
- Over 650 000 km² of coral reefs
- Extent of coral reef is stable, but most show declining quality around heavily populated areas
- Total mangrove area in Oceania is 5717 km² which is 3.8% of the global mangrove cover
- Mangroves under increasing threat from conversion for housing, industrial and tourism-related development
- Increasing awareness of role of mangroves in coastal protection

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

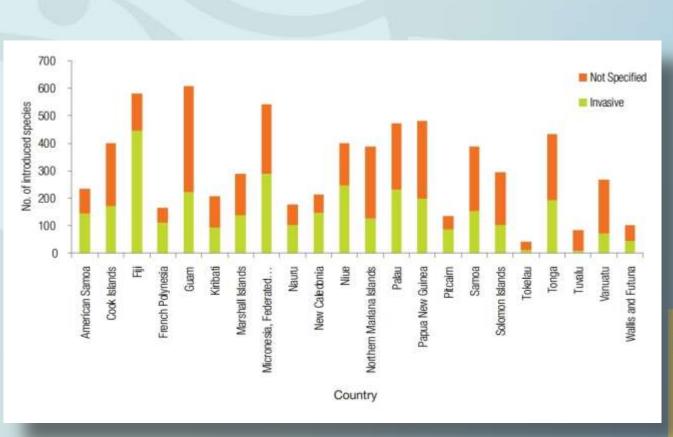




Introduced and Invasive Species

Highest numbers of known invasive species are in Fiji, followed by

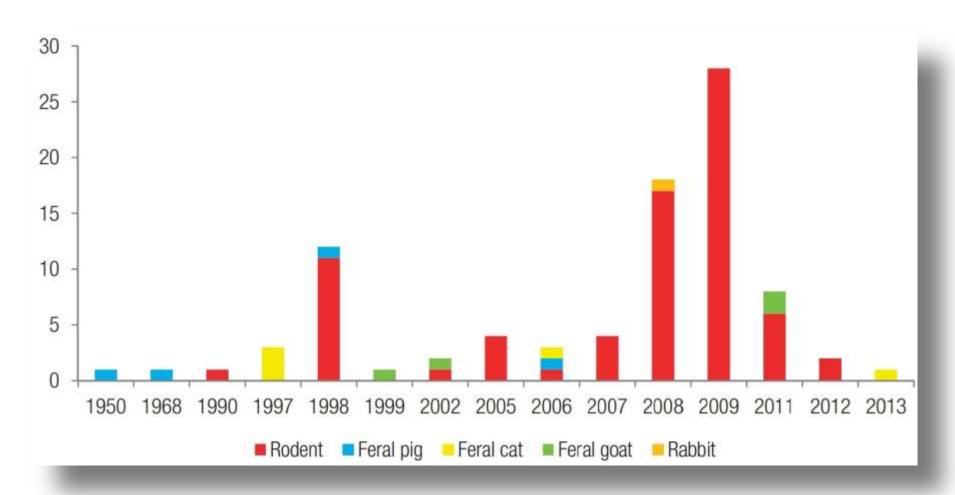
the Federated States of Micronesia, Niue, Palau, and Guam







Reported successful invasive animal eradications 1950-2013



Note: Peaks of activity in 2008 and 2009 reflect donor support

Responses to safeguard Oceania's biodiversity and natural resources



Protected Land and Sea Areas

- Coverage by protected areas in the region is low:
 <5% terrestrial area; 1.91% territorial waters (and 0.9% of all marine areas)
- Only 4 countries/territories countries have reached CBD Aichi terrestrial target: Pitcairn (81%), New Caledonia (51%), Guam (27%) and Kiribati (22%)
- Only Kiribati has exceeded the marine target, with
 12% of its territorial waters protected

Locally Managed Marine Areas (MMAs) contribute to biodiversity conservation, and implementation by over 500 communities represent a unique achievement



Protected WWF Ecoregions and Species

- Only 19% of terrestrial and 30% of marine ecoregions have more than 17% and 10% protected
- 1% or less of birds, amphibians and cartilaginous fishes (and no species in any other group) have their distributions completely covered by protected areas.

Achievements and Commitments

Significant commitments by Pacific island countries:

- Kiribati: 408,250 km² Phoenix Islands Protected Area
- Cook Islands: 1 million km² Marine Park
- Palau: Exclusive Economic Zone marine mammal sanctuary for the protection of whales, dolphins, and dugongs; Shark Haven Act
- Tonga: whale sanctuary
- Micronesian Challenge: 20-30% conservation commitment
- Coral Triangle Initiative
- Pacific Oceanscape Framework
- Numerous community level initiatives



Next 6 Years: Address Critical Issues

- 1. Achieving CBD 2020 Aichi Targets
- 2. Translating MEA and national commitments to concrete action beyond policies: laws, enforcement, capacity, awareness and education, community participation
- 3. Ecosystem approaches at scale replicating approaches
- 4. Protecting biodiversity that can sustainably support livelihoods and food security
- Providing the level of resources needed to deal with manageable threats, especially invasive species
- 6. Implementing ecosystem-based adaptation approaches to climate change impacts that sustain ecological services
- Taking monitoring and assessment seriously to understand the scale of threats and change and develop appropriate responses

Thank you!

