



Oceans and Sustainability

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Sustainability and Oceans: Progress

- Evolution to ‘being at the table’
 - Sustainability focused on terrestrial livelihoods framing
 - Problem of responsibility for international waters

Sustainability and Oceans: Progress

- IPCC
- Indicators
- SDGs
- Ocean assessment
- Climate negotiations

Indicators

- Regional and local sea level rise
- Aragonite saturation state (for ocean acidification)
- Chlorophyll concentration in surface waters
- Coral thermal stress



Fisheries

- Missing in this community
- Active discussions in other communities
- Roughly 40% of population relies on fish protein
- 50% is artisanal fishing
 - At mid-century with increase in plant protein will still have 3B dependent on fish protein, most will be part of the poorest 3B

Artisanal fisheries



- More evidence emerging that much of this fishing is unsustainable

Aquaculture



Aquaculture

- US problem of responsibility
- Third rail for many environmental organizations
- New ConservationX initiative

The other aquaculture



Marine Protected Areas



Managing MPAs

- Challenge of illegal, unreported, unregulated (IUU) fishing
- New developments
 - Technology for conservation
 - ConservationX

Estuaries



Estuaries

- 7 of the cities projected to grow most over the next 50 years are on rivers
- Downstream impact on estuaries already losing capacity to provide ecosystem services
- Our Global Estuary
 - New program being developed



