



Status of coastal fisheries in Polynesia

Lindsay Chapman, Deputy-Director FAME (Coastal Fisheries),
Fisheries, Aquaculture and Marine Ecosystems Division







This presentation







- Recent estimates of catch and value
- Status of coastal fisheries
 - Finfish
 - Invertebrates
- Data
- Concluding remarks













What are coastal fisheries?





Demersal finfish (from lagoons and reefs)









Invertebrates (intertidal and subtidal)















How are they harvested?

















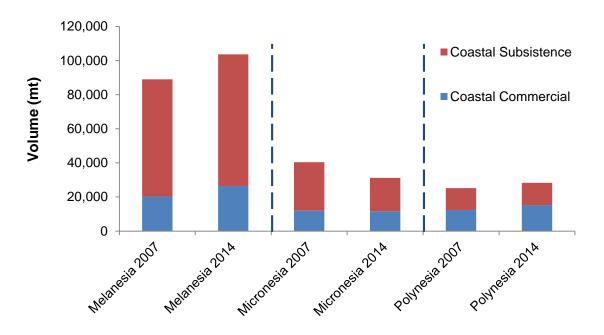


ANNIVERSARY



What is the catch?

- Overall catches lowest of the three Pacific regions
- Estimated 28,338 mt landed in 2014 (ca. 12% increase from 2007)





Source: Gillett 2016





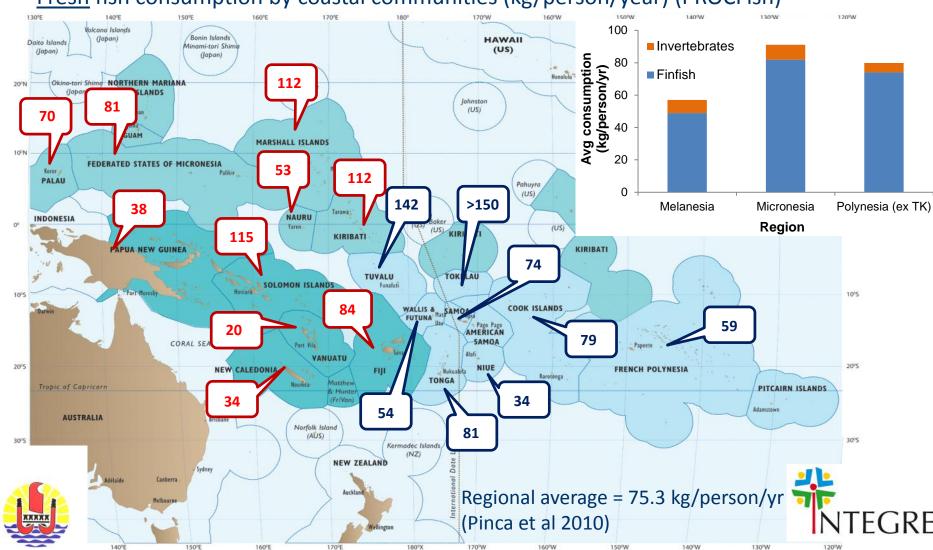


How much fish do we eat?





Fresh fish consumption by coastal communities (kg/person/year) (PROCFish)





Status of coastal fisheries in Polynesia





- Status assessments largely limited by lack of longterm data
 - > 1,000 islands
 - Large number of species & stocks
 - Geographic spread of area
 - Cost of travel, surveys
 - Lack of attention to coastal fisheries
- However several 'snapshot' studies / projects available from which to infer status





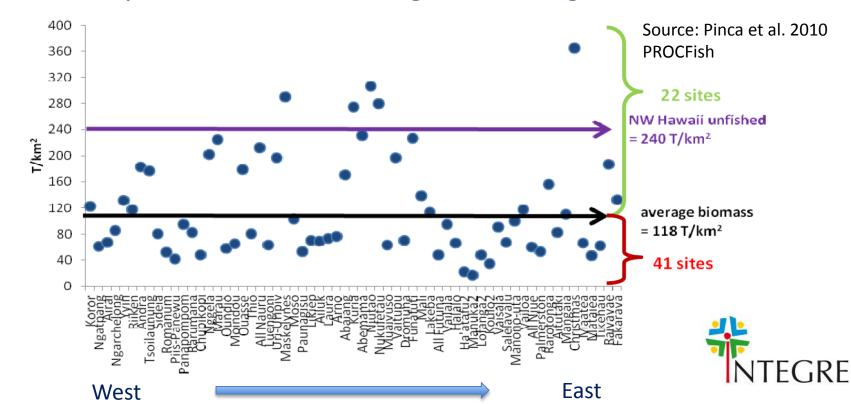


Status: At a regional level





- PROCFish: Regional average finfish biomass of 118 t per km²
- 41 sites below this (59 % of all sites)
- 65% of Polynesian sites below regional average





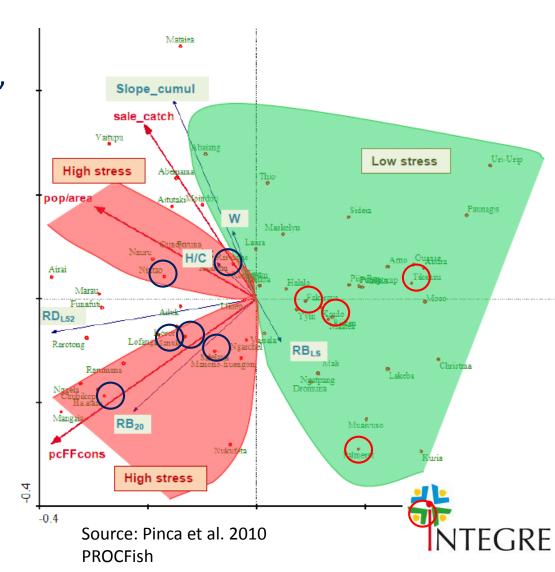


Status: At a regional level





- When habitat is removed, and only fishing is accounted for, Polynesia reefs are a mixed bag
- Some low stress, healthy
- Some high stress, heavily degraded





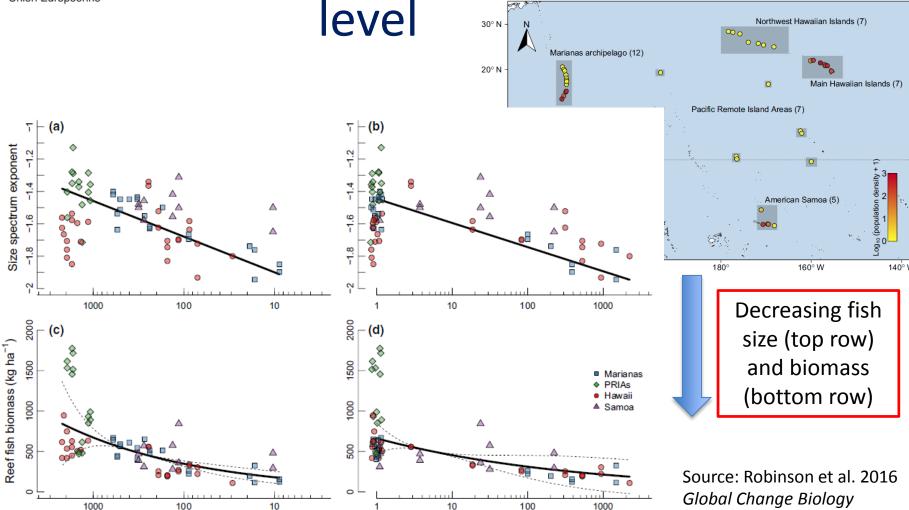


Status: At a regional













Proximity to market (km)

Increasing proximity to market (left column), human pop. density (right column)

Human population density + 1 (people km⁻²)









Status: At a local level

 Collapse and closure of certain fisheries, changes in catch composition and decreases in fish size observed at some locations







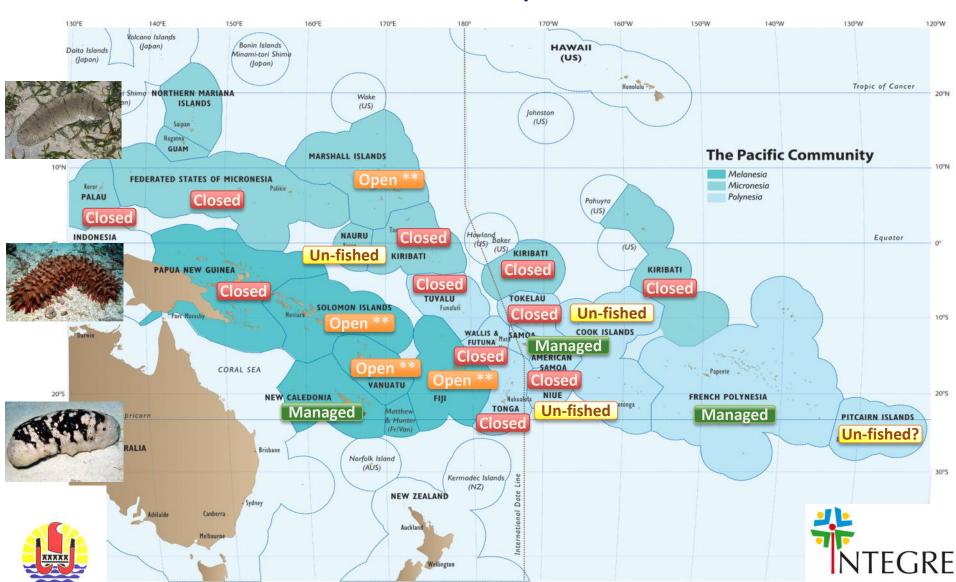






Majority of sea cucumber fisheries are overexploited



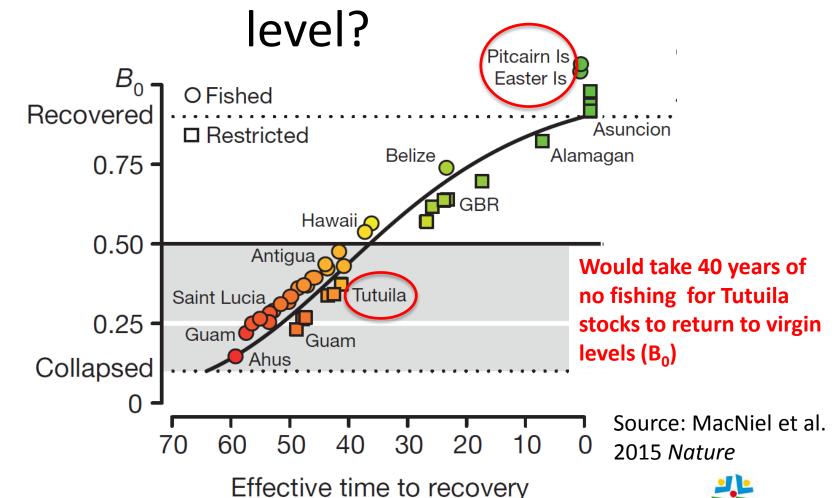




How do our fish stocks compare on a global







without fishing (years)





Data deficiencies





 Coastal fisheries in Polynesia, like elsewhere in the Pacific, considered data deficient



- Catch and effort data
- Multiplier data to estimate annual catches (no. fishers, no. fishing trips per year)
- Length frequency















Concluding remarks

- Coastal fish critical for food security (and livelihood, cultural identity etc.) across Polynesia
- Status of coastal fisheries in Polynesia a mixed bag
 - Some locations overexploited, some appropriately exploited, most data deficient
- Urgent need for long-term data collection programs to address data deficiencies
- Need for sustainable management of coastal reef fish and invertebrate stocks and the habitats that support them.



Thank you

Questions?



