Status of Palau's Coral Reefs



Yimnang Golbuu Palau International Coral Reef Center

Importance of Coral Reefs



Erosion and Sedimentation





Seagrass

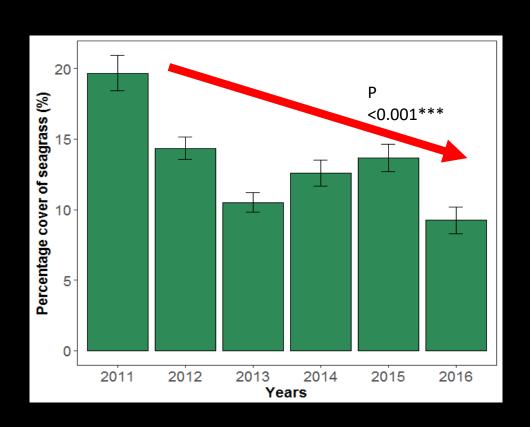
General decline in seagrass cover

Decline in fish and invertebrates

Decline in both MPAs and non-MPA sites

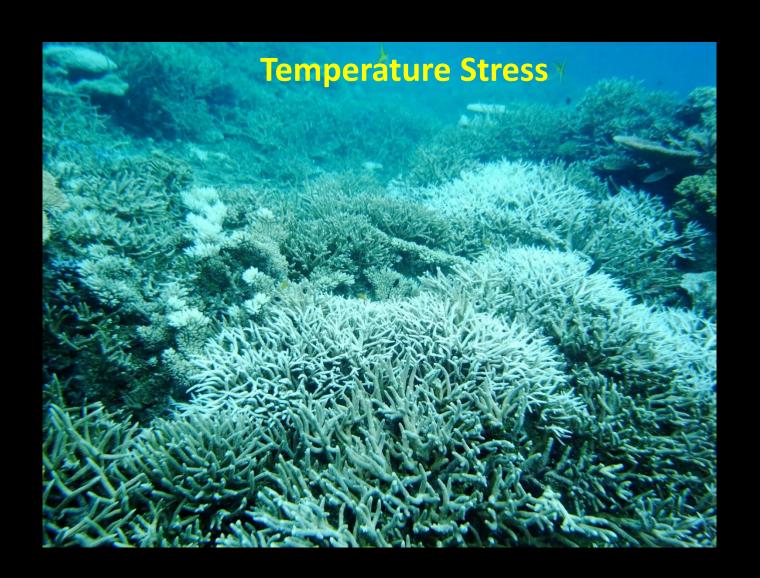


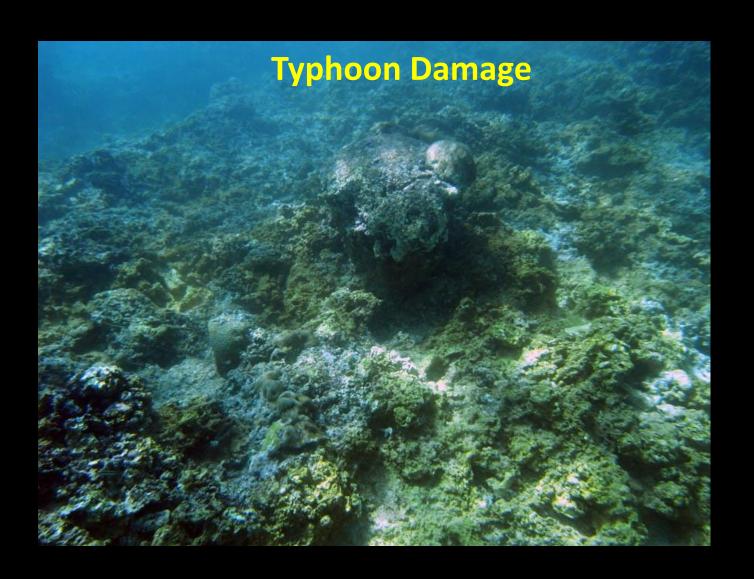
Long tern monitoring - Seagrass Beds in Airai



Since 2011

Whether it is inside or outside MPA: Seagrass cover has decreased by half in 5 years





Coral Reef Monitoring

• Long-term Coral Reef Monitoring (CRM)

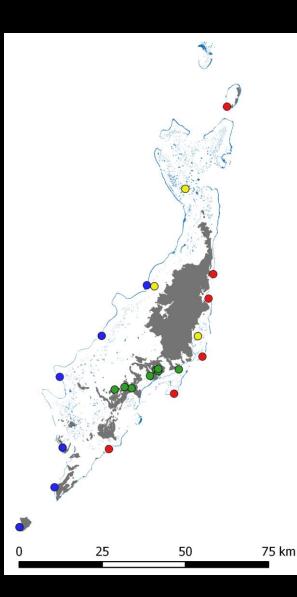
• Established in 2001

• 23 permanent sites in major habitats

• Every 2 years

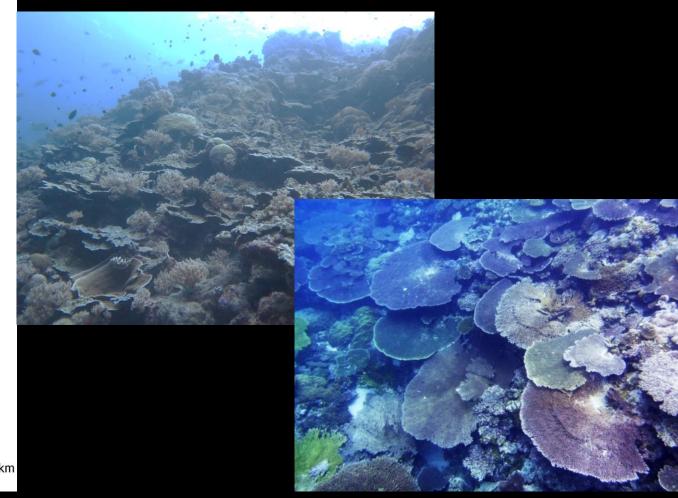
• Ecological Indicators at 3m and 10m:



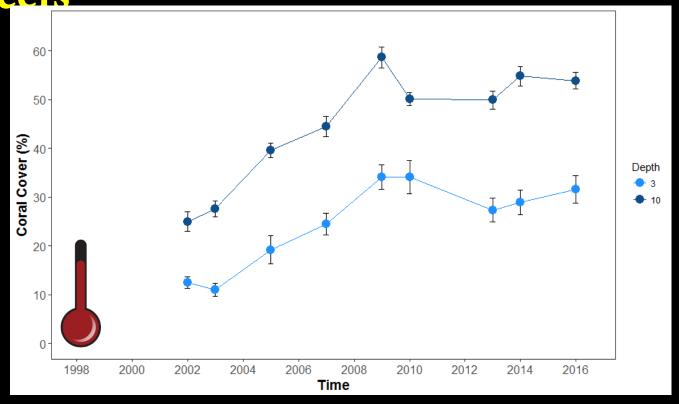


75 km

Western Outer Reef

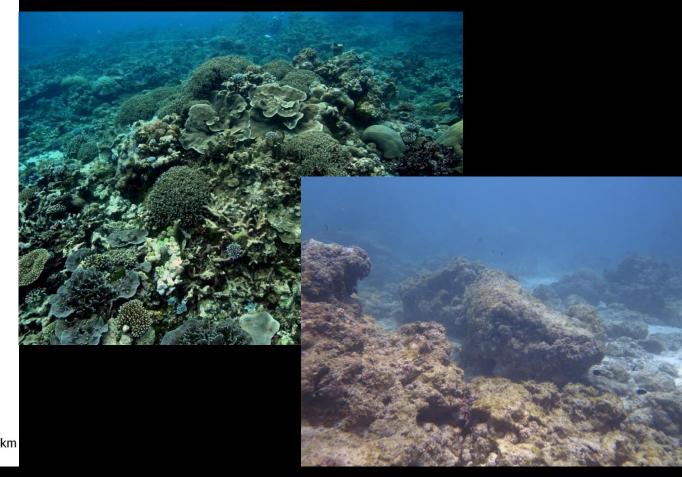


Coral-reefs on the western outer reefs

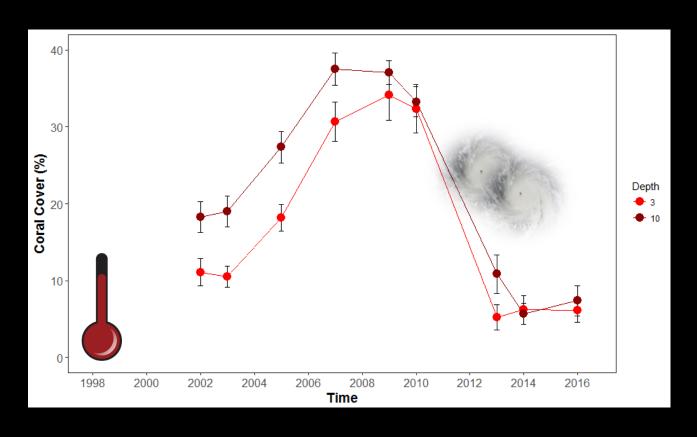


75 km

Eastern Outer Reef



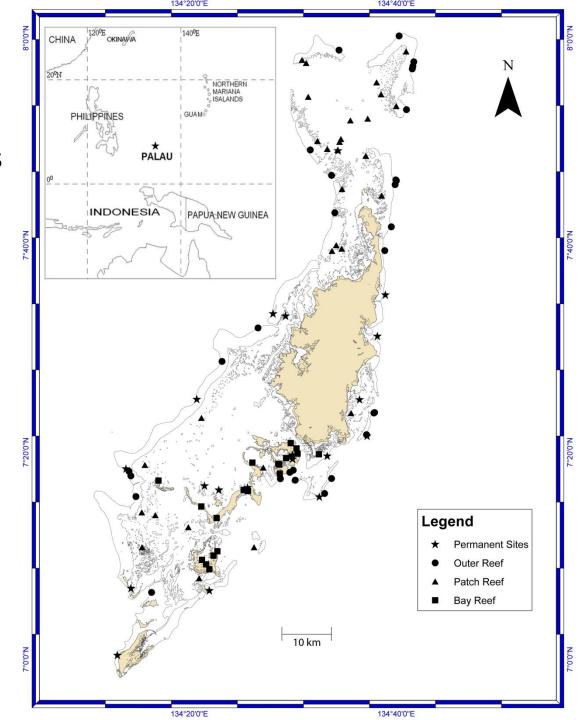
Coral reefs in the eastern outer reefs

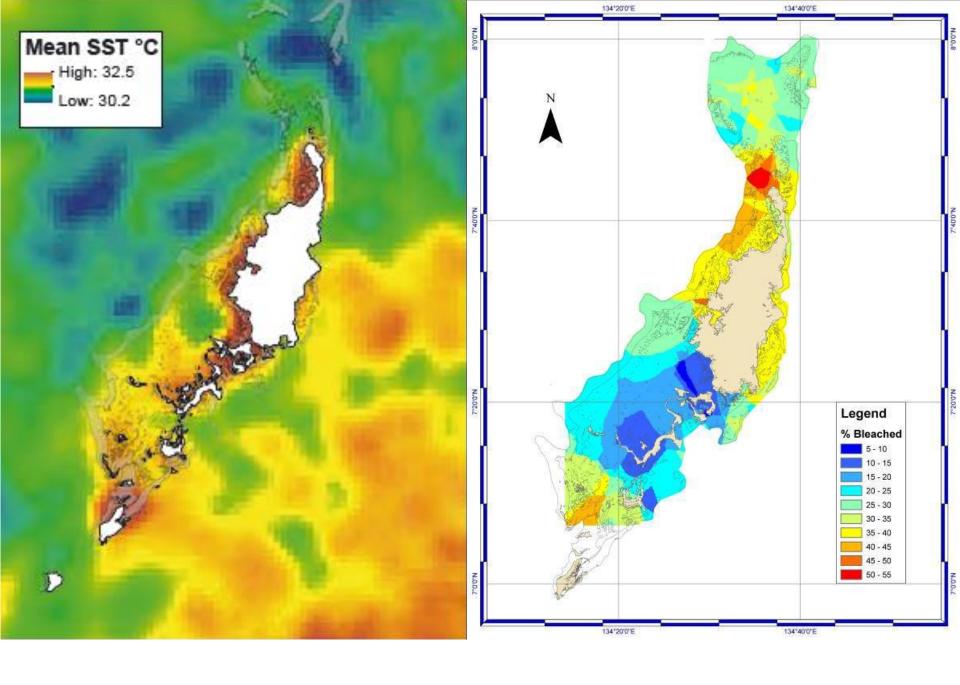






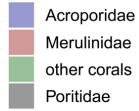
80 sites240 transects34, 397 corals

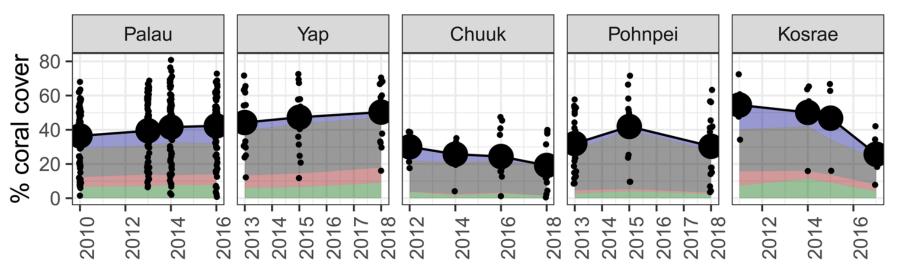




van Woesik et al. 2012





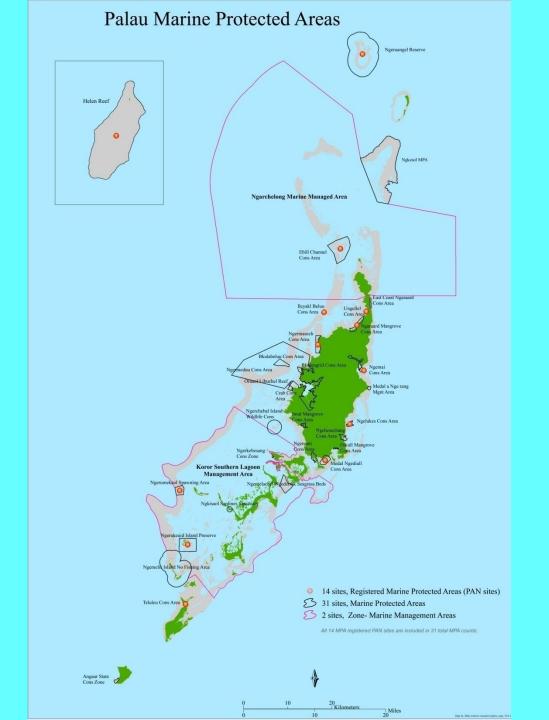


Houk et al. 2020 Scientific Reports

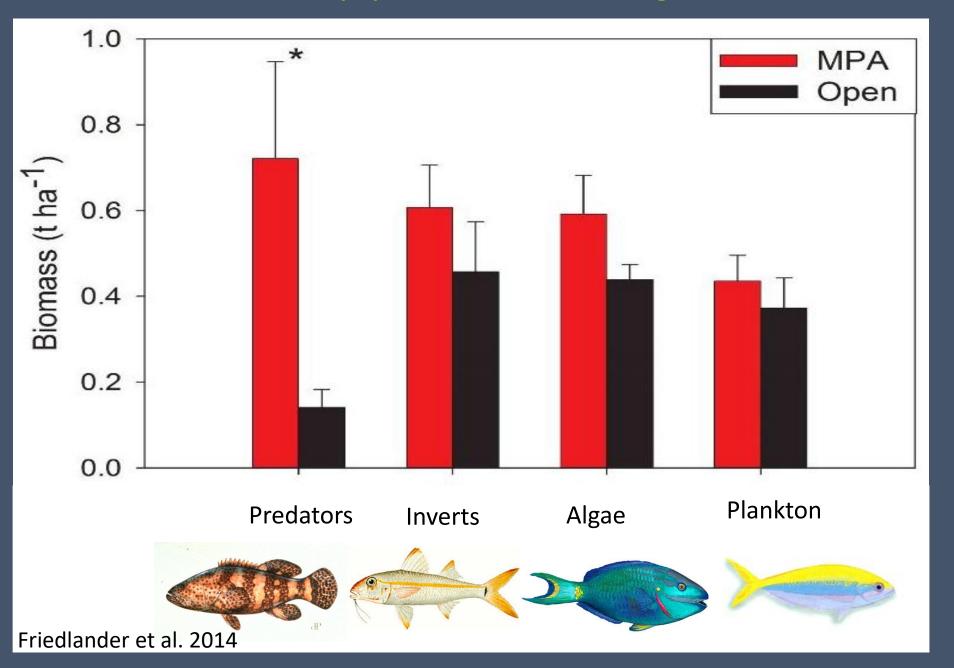
Overfishing of Reef Fishes







Biomass of top predators 5 x larger in MPAs



Factors affecting MPA success

