Yimnang Golbuu
Palau International Coral Reef Center
Ngerukewid Island Preserve
Established 1956

Kevin Davidson
Ngerumekaol Spawning Area

Established 1976
3.5 sq. mi.
NO TAKE
Current MPAs formed an *ad hoc* system of protected areas

Not necessarily effective for nation-wide biodiversity

Does not incorporate concepts such as resilience and ecological integrity

*Ad hoc* created protected areas cannot deal with the impact global climate change
Dual Objectives of PAN

Protecting the country’s biodiversity

Assist with local management of natural resources
Science and Monitoring

Network Design (habitat, stratification, connectivity, resilience)

Monitoring indicators and monitoring protocol (effect of protection on resources)
Bay

pH=7.8-7.9
Ω arg=2-2.5
temp =30

Outside

pH=8.05
Ω arg=3.6-3.7
temp =29

Shamberger et al. 2014
Fish Connectivity

Initial Seeding

4 days

7 days

10 days

gaps in connectivity