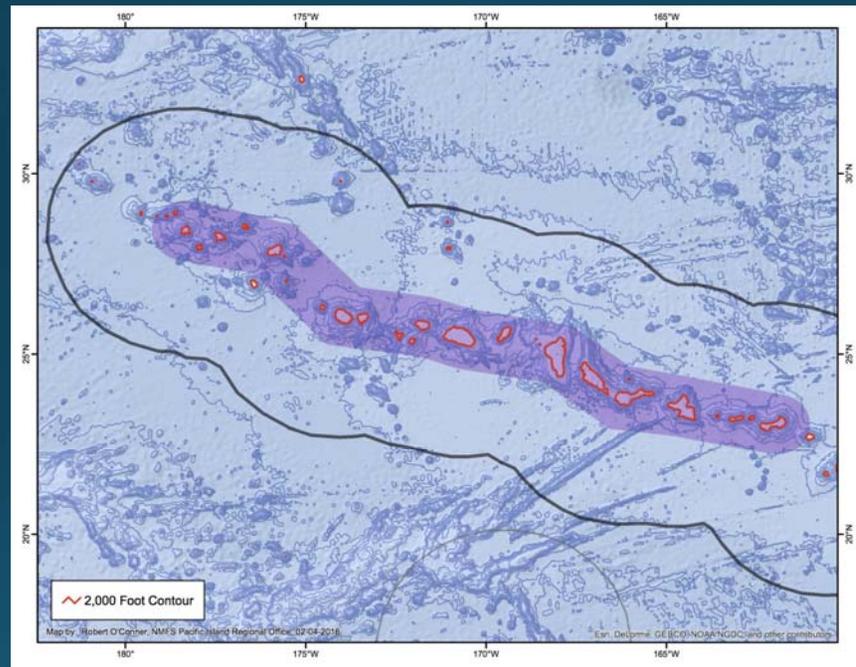
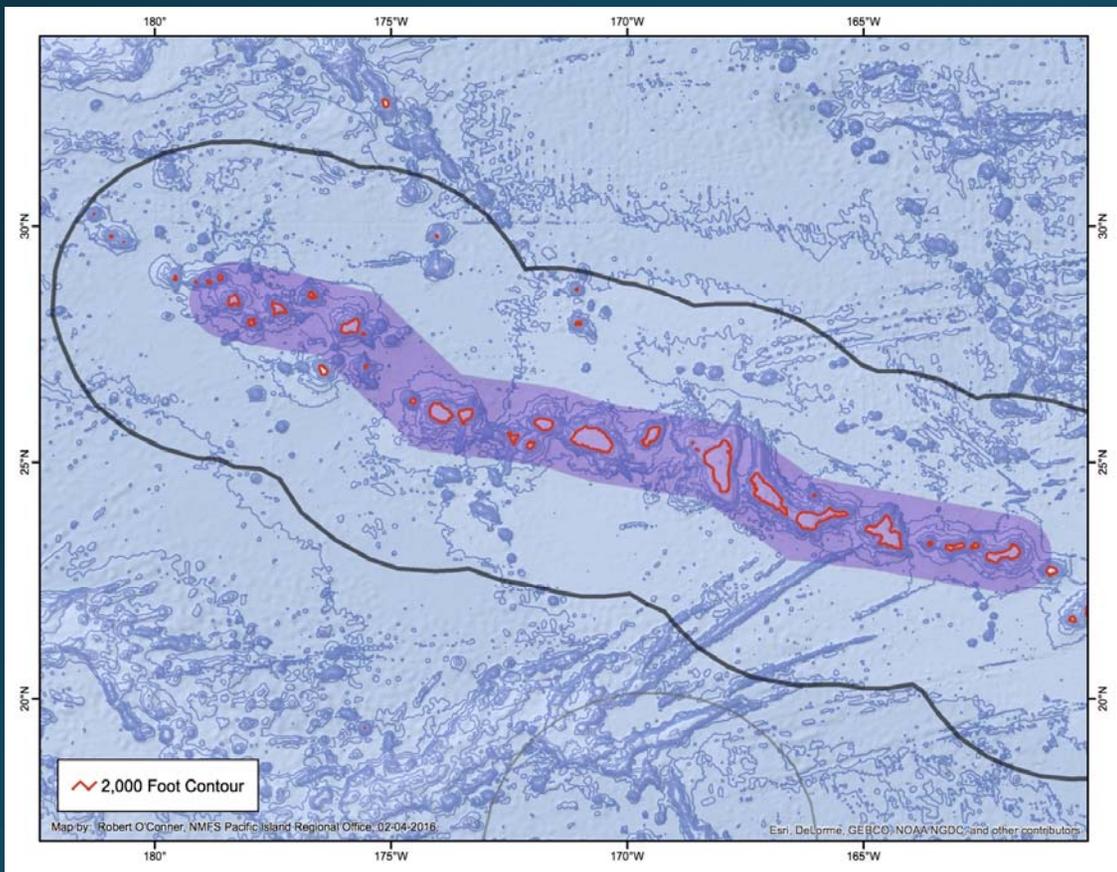


Scientific Support for the Expansion of the Papahānaumokuākea Monument

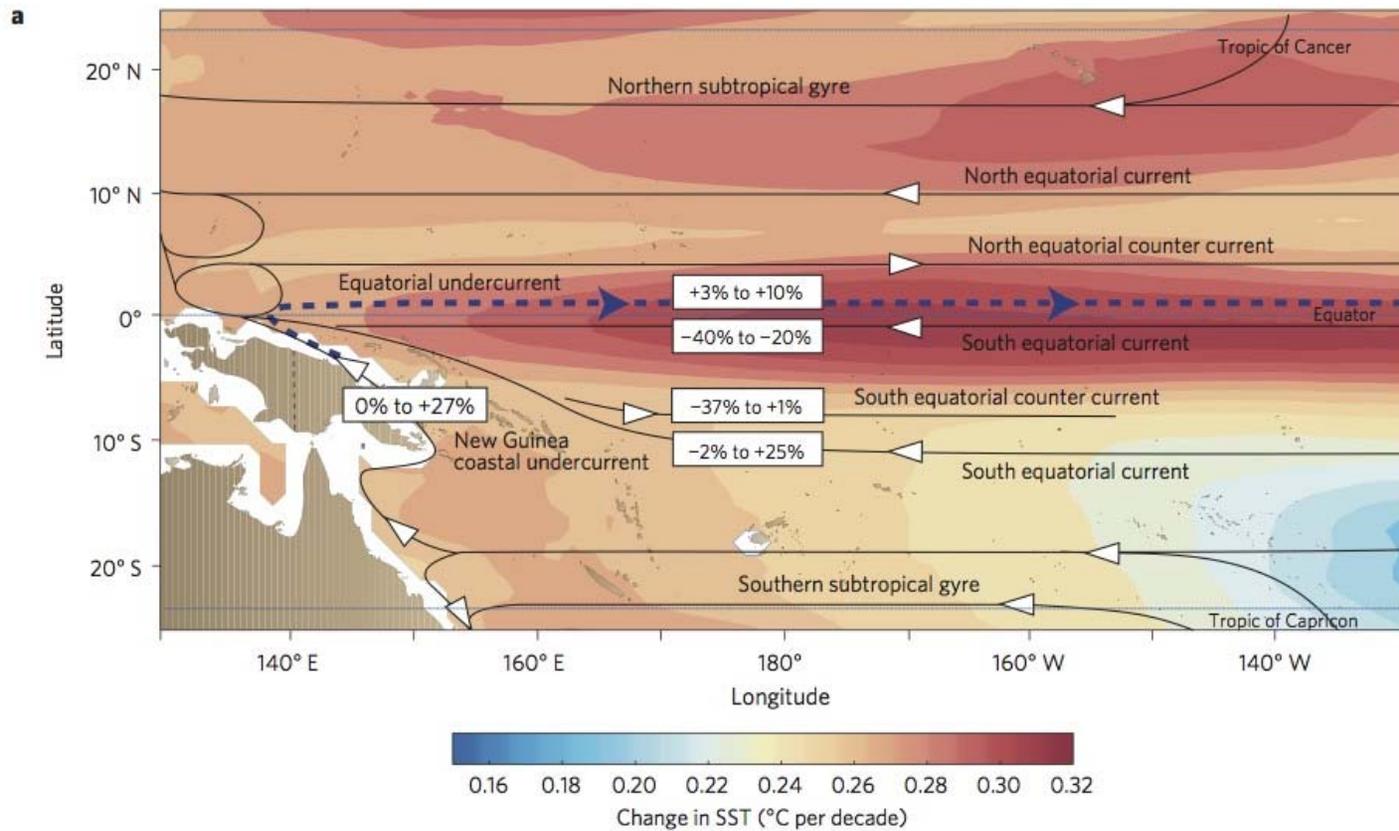


Robert H. Richmond, Ph.D. Research Professor and Director, Kewalo Marine Laboratory
University of Hawaii at Manoa

Characteristics of the Ideal MPA

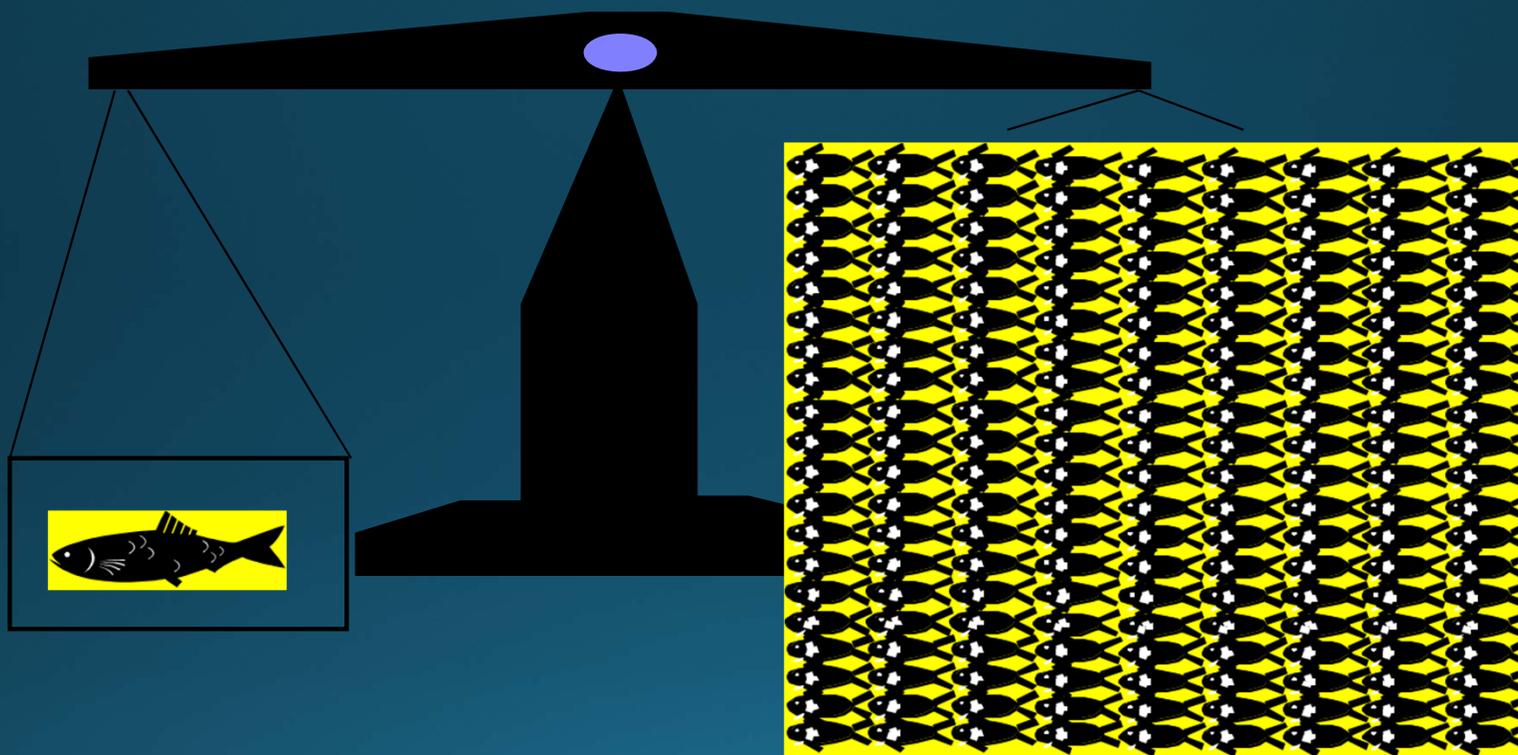


- Location
- Content (ecological, cultural, economic)
- Size
- Remoteness
- Time
- Connections
- Compliance
- Enforcement



BFF's

1 vs. 2000



Credits: Gerry Davis, NOAA

Key Talking Points

- ***Ideally located*** to capture migratory fish, larvae and other stuff now and in a world impacted by climate change.
- ***Contains high diversity*** of habitats and life.
- High degree of ***endemism***
- ***Remote*** with limited present commercial access and use
- ***Connected*** for both imports and exports

... But There's more:

- ***Natural populations*** of apex predators
- BFF's and other large fish ***move more than 50 miles***
- ***Oldest*** living organisms on earth
- Smells and sounds go far in the ocean, aid recruitment;
Island mass effect.
- ***Our children's bank account*** that with sufficient capital,
will yield sustainable interest

Questions:

- If not there, where? (how do we get from 2% - 30%)
- If not now, when?
- What about future fishers and stakeholders?
- What's really up there and of what value?
- What do we stand to lose versus gain?