

## MOOREA CORAL REEF LIER Member of the NSF Long Term Ecological Research Network







## Moorea Coral Reef

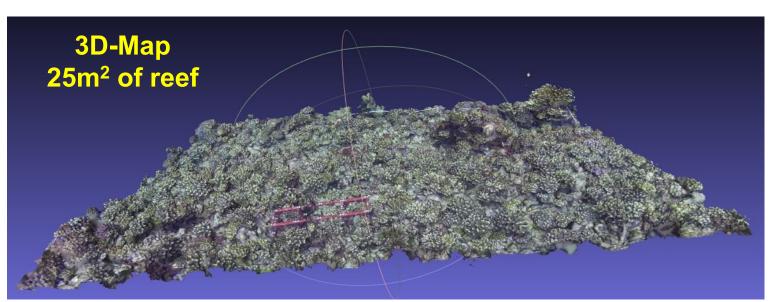


Deron Burkepile
LTER SCIENCE COUNCIL MEETING 2018
MADISON, WI

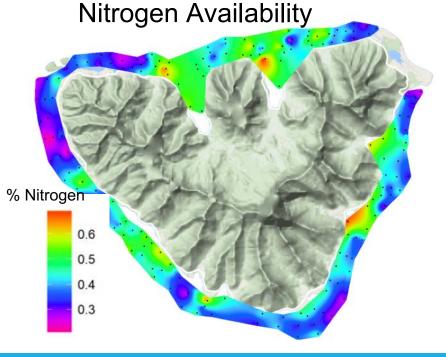


## **MCR News**

- NSF CNH socio-ecological feedbacks between fishing and reef resilience
- 3D-modeling coral reefs ETH Zurich, Microsoft, University of Modena
- Island-wide mapping inorganic nutrients
- NSF OA Free Ocean CO<sub>2</sub> Enrichment (FOCE) – natural reef communities







## MCR Organic Matter

**Current/Past/Future Measurements** 

- Primary productivity benthic/pelagic
- Dissolved organic matter origins, fates and effects on coral health
- Biomass of fishes/algae/invertebrates
   accumulation/turnover and relation
   to inorganic nutrients
- Dissolved organic nitrogen (urea from fishes) vs. inorganic nitrogen (human derived)

