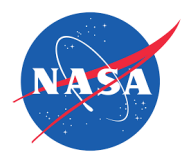
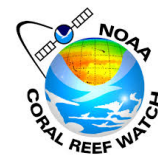


Forecasting coral disease outbreaks across the tropical Pacific

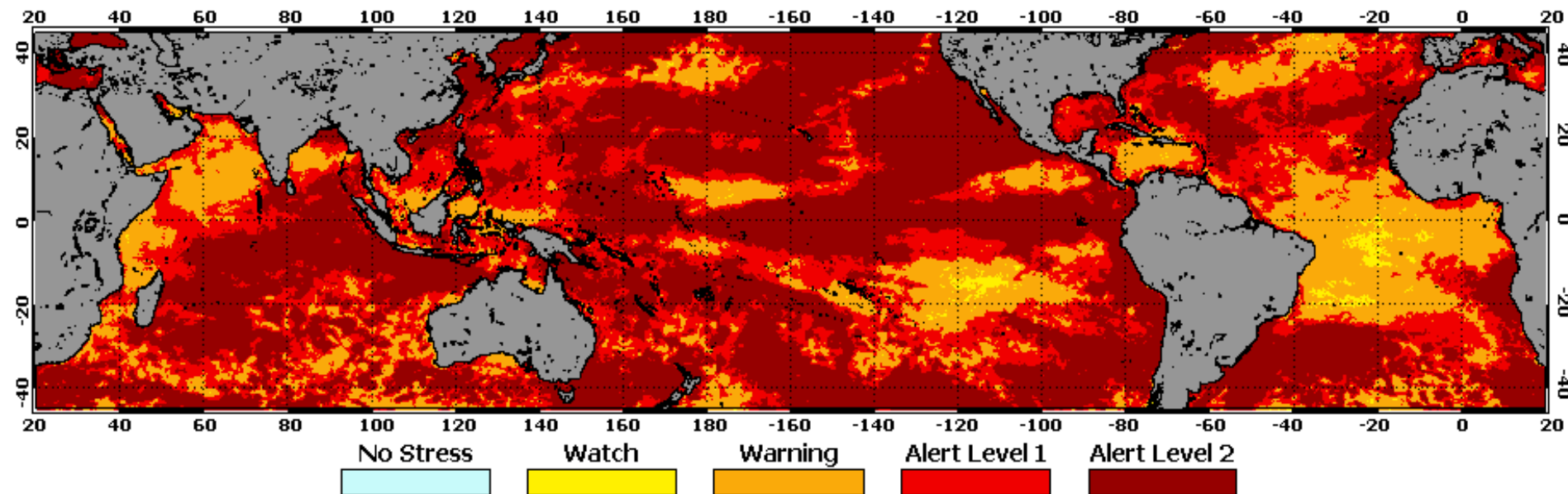
Goals

- Model a larger set of coral diseases
- Expand spatial extent
- Increase spatial resolution of SST predictors
- Include new predictors: ocean color, nighttime lights, human population
- Add a 4-month Forecast
- Develop new predictors based on pre-visible stress responses in the coral metabolome and microbiome

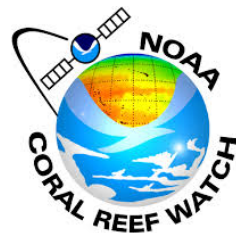


June 2014 - March 2017 Thermal Stress

NOAA Coral Reef Watch 5 km Maximum Satellite Coral Bleaching Alert Area Jan. 2014 - Mar. 2017



- Widely used by managers, policy makers, and scientists throughout the world
- Contributes to local & regional bleaching/disease response plans
- Assists comprehensive risk assessment of climate impacts on ecosystems



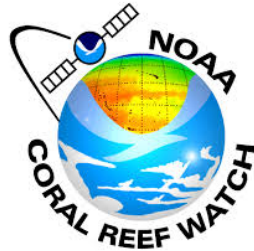
Our Team

Kick off Meeting

June 24-25

Outreach to Managers

June 26



Mark Eakin



Scott Heron



Megan Donahue



Jamie Caldwell



Bernardo Vargas-Angel



Tracy Ainsworth



Bill Leggat