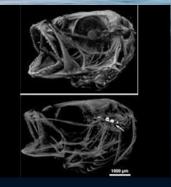


Revisiting Concerns for Marine Organisms and Ecosystems



Bignami et al. 2013



- Reduced calcification rates
- Significant shifts in key nutrient and trace element speciation
- Shifts in phytoplankton diversity
- Changes to key biogeochemical cycles
- Reduced growth, production and life span of larvae, juveniles and adults
- Reduced recruitment and settlement
- Changes to fitness and survival
- Changes to species biogeography
- Reduced tolerance to other environmental fluctuations
- Changes in food webs
- Changes to ecosystems and their services

State of the OAP Program –FY15-17 Request for Sustained Investment (SI) Workplans

- Sustain current research/monitoring activities, i.e., long term observing, experimental facilities, modeling, species response studies and data management
- Geographic areas with existing OA research infrastructure/operations currently supporting OAP priorities and led by NOAA PIs or their pre-arranged designees
- Observing Networks, Experimental Facilities/Systems, Data QA/QC and Management, Modeling, OA Response Studies (NMFS)









SI Workplan Vision Statements

- Forward-looking; rationale of broader OA research endeavor
- Collective vision serving to catalyze OA research efforts within region
- Platform on which additional OAP funds requested through BI LOIs
- Describes intended long-term outcomes on which OAP can develop programmatic performance measures
- Endorsed by PIs





OAP FY15-17 Letters of Intent for Build-out Investments (Bls)

• BI funds will focus on more robust implementation of the OAP Sustained Investments (SIs) supporting ocean acidification observational and experimental capabilities to better achieve the strategic requirements of the program.





