

### NOAA Ocean and Great Lakes Acidification Research Plan



Monitor trends

Ecosystem reponses

Model changes & responses

Develop adaptation strategies







# **Regional Approach**





## **IMPLEMENTATION TIMELINE**

1 Monitor	Deploy and mainta Instrument and ma CLIVAR/CO <sub>2</sub> cruises	intain OA se				
2 Assess	Single species expt	s (vulnerable	, economica	lly importar	nt & protect	ed species)
	8 6 6 6 8 8 8	Multi-spe	cies and m	esocosm e	xperiment	s
3 Forecast	Test & evaluate ex	isting global	& regiona	models		
	Develop high res, p	hysical – bio				
			Develop o	oastal ear	ly warning	system
4 Manage	Develop	socio-econo	omic mode	ls and deci	sion tools	
			Test mitig	ation appr	oaches in l	ab
5 Synthesize	Data management	and synthes	sis			
		Integrate	d synthesis	workshop	s & reports	$\sim$
6 Engage	Education/outread	h planning -	Develop c	urricula/ou	treach pro	ducts
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#### **NOAA** Resources and Research

#### Oceanic and Atmospheric Research

- Monitoring and modeling
- Sample analysis (AOML, PMEL)
- Sensor Technology development extramural RFP FY 12?
- NOAA Program Office FY 11....soon

#### NOAA's Fisheries Service (NMFS)

- Species specific experiments on commercial or recreational fishery species or their food/prey including primary producers (increase in FY 12?)
- Modeling
- Building mesocosms. NEFSC, NWFSC, AKFSC

#### National Ocean Service

- Coral Reef Conservation Program (Caribbean, Pacific Islands)
- Marine Sanctuaries (especially West Coast)
- National Estuarine Research Reserves
- Ecosystem Impacts of OA extramural program FY 12?
- Labs in Kasitsna Bay, AK, Southeast (NC/SC), Chesapeake Bay

#### National Environmental Satellite, Data, and Information Service

- Coral Reef Watch
- Satellite sensing of phytoplankton blooms