Climate Research Investments (CRI)

Five Themes for FY2010

- Ocean Acidification (OPP lead)
- Climate Change Education, Phase 1 (OPP partner)
- Decadal and Regional Scale Prediction using Earth System Models (OPP partner)
- Dimensions of Biodiversity (OPP partner)
- Water, Sustainability, and Climate

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Common Elements to Solicitations:

- Letter of Intent requirement
- Interdisciplinary partnership and research integration emphasis
- Development of research themes via:
  - Full research proposals – place-based, observational, synthesis
  - Exploratory (EAGER) proposals
  - Community/capacity building efforts (workshops, research coordination networks)

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Ocean Acidification (BIO, GEO, OPP):

- To understand the chemistry and physical chemistry of OA and its interplay with organismal biochemistry and physiology
- To understand how OA impacts processes at the level of the organism and ecosystem
- To understand how earth system history informs understanding of the effects of OA on the present day and future ocean

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Decadal and Regional Climate Prediction using Earth System Models (NSF: BIO, GEO, OPP, MPS, SBE, CISE, OCI; Also USDA and DOE):

- Development of global and regional predictions of climate variability through coupled physical, chemical, biological, and human processes
- Emphasis on understanding impacts of climate variability and change on ecological, agricultural, and human systems, and associated feedbacks
- Expect to recommend polar system modeling awards totaling ~$10M with cost-sharing from DOE, BIO, and MPS

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Dimensions of Biodiversity (BIO, GEO, OPP):

- Integration of genetic, taxonomic, and functional biodiversity required
- Emphasis on understanding how biodiversity affects resilience, sustainability, and biogeochemical cycling
- Emphasis on understanding how climate change and anthropogenic disturbance affect biodiversity, and the impacts of biodiversity loss on systems

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Pre-CCEP activities- informal brown bag sessions, Dear Colleague letter, community workshop

Heard from community new partnerships needed

MINIMUM OF THREE PARTNERS: Climate Scientist, Learning Scientist, Practitioner

THEMATIC (Drought, Sea-level Rise) and/ or REGIONAL (Polar, Southwest)- all types of education welcome

Phase 1- development; Phase 2- Five (?) formal partnerships

Arctic and Polar LOI's submitted

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Status and Timetable

CRI Theme	Solicitation #	Letters of Intent due	# Letters of Intent	Proposal Deadline	# Submitted Projects	Panel Dates	# Funded Projects
Water, Sustainability, Climate ($20.5M)	10-524	15 March	311	15 April	Cat 1: 71 Cat 2: 65 Cat 3: 35	17-25 June	17
Ocean Acidification ($23.5M)	10-530	29 March	130	26 April	Cat 1: 95 Cat 2: 9 Cat 3: 2	1-4 June	22
Climate Change Education, Phase 1 ($12M)	10-542	23 April	174	24 May	114	12-16 July	15
Dimensions of Biodiversity ($23.5)	10-548	7 May	270+	8 June	194	14-16 July 19-21 July	14
Earth System Modeling ($45-50M)	10-554	24 May	196	25 June	Type 1: 94 Type 2: 43	26 July-6 Aug	???