Purpose

Changes in climate, demography, technology, and subsequent environmental, economic, and geopolitical responses are driving efforts to modernize long-term planning strategies. Moving forward, extended range earth system predictions/projections will be incorporated into strategic decisions over the 2 to 30-year time range in order to mitigate cost and vulnerability of national security, economic vitality, infrastructure, and natural resources.

The present situation risks each user separately seeking potentially inappropriate information to inform multimillion-dollar decisions of long-term scope, or misunderstanding or misusing the information found. Limited resources do not permit any individual agency to address these issues comprehensively, nor do all the decisions fall within any one agency's individual mission. However, the commonality of the physical problem creates opportunities to pursue a coordinated capability across agencies.

This exploratory workshop will discuss the need for coordinated updating of physical earth system predictions to support a wide range of long-term decisions; the effort may draw on multi-agency expertise and existing or emerging capabilities. The workshop will focus on the challenges of providing and maintaining an updating but non-operational capability, including the potential dual use of ongoing research efforts for decision support. Discussions will emphasize collaborative efforts to create paths forward and facilitate inter-agency efficiency. Ultimately, the workshop will serve as a foundation for continued information exchange leading to a unified, reliable, and actionable prediction capability. The workshop is intended to build on the work of agencies involved in the USGCRP and USCLIVAR.

Attendance consists primarily of representatives from all Federal agencies participating in FCMSSR, most of them involved in the USGCRP, providing long-range predictions/projections, and using/potentially using long-range predictions/projections of the earth system in their decision processes.

https://cpaess.ucar.edu/meetings/2019/interannual-to-decadal-workshop

https://earthsystemprediction.gov

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Workshop on Building an Interannual to Decadal (2 to 30 year) Prediction/Projection Capability for Decision Support

NOAA Center for Weather and Climate Prediction College Park, MD 5-6 June 2019

Day 1	- Wednesday, 5 June		1435	[Discussion] Needs vs. Capabilities	Jessie Carman
	Opening Session		1530	Synopsis and Discussion	Scott Sandgathe
0830	Welcome and Purpose	Michael			Brad Johnson
		Bonadonna	1600	Adjourn Day 1	
0845	Overview of NAS reports 2-30 yr	Scott Sandgathe	Day 2	- Thursday, 6 June	
	User Needs		0830	The decadal prediction grand challenge	David Titley
0915	Department of State	Fernando Echavarria	0900	Overview of Day 1	Johnna Infanti
				Emerging Capability and Research Efforts	
0930	Sea Level Variation and Impacts	Ben Hamlington	0930	International challenges	Shanna Pitter
0945	NOAA/NWS	Hendrik Tolman	0945	NASA	Andrea Molod
1000	Morning Break				Andrea Molod
1015	USDA	Mike Brusberg	1000	First Break	
1030	Department of the Air Force	Michael Farrar	1015	Academia	Lisa Goddard
1045	Insurance	Rob Galbraith	1030	Commercial Sector	Mary Glackin
			1045	NOAA	Tom Delworth
1100	[Discussion] The definition of needed capabilities	Dave McCarren Scott Sandgathe	1100	UCAR/NCAR	Stephen Yeager
1200	Lunch		1115	Second Break	
	Present Capability and Research Efforts			Fulfilling User Needs	
1300	Department of the Navy	Joshua Cossuth	1130	Advancing operational infrastructure	Arun Kumar
1315	Department of Energy	Renu Joseph Corrine Hartin	1200	[Panel] Next Steps	John Cortinas Jin Huang
1335	USGCRP: National Climate Assessment	David Reidmiller			Andrea Molod
1405	Afternoon Break		1245	Closing Discussion	Jessie Carman Scott Sandgathe
1420	USGCRP: Interagency Group on Integrative Modeling	Renu Joseph	1330	Adjourn	