

The Implementation of the Amchitka Independent Assessment Science Plan

Meeting of the Interagency Amchitka Policy Group
Anchorage Alaska
March 3, 2005

CRESP PRESENTATIONS

Introduction to and Context for the Amchitka Assessment Plan, the 2004 Expedition and Subsequent Work
- Charles W. Powers, Ph.D. UMDNJ and CRESP II PI

Summary: the Health and Safety Plan for the Expedition
- Michael Gochfeld, M.D., Ph.D., UMDNJ and Expedition Medical Officer

Presentation on Geophysical Investigations
- David Kosson, Ph.D., Vanderbilt and Amchitka Project Leader, Geophysical Investigations

Presentation on Amchitka Biological Sampling
- Joanna Burger, Ph. D., Rutgers and Project Leader, Amchitka Biological Sampling

Presentation on Sample Selection
- Joanna Burger

Presentation on Radionuclide Analysis of Biological Samples
- David Kosson, Amchitka Project Leader, Radionuclide Analysis

Goals of the Assessment Plan, the Expedition and the Analysis

To determine:

1. whether there is any current threat to human health and environment from radionuclide release into the Island's sea waters from nuclear tests shots at Amchitka; and
2. a baseline of biological and physical data that should aid in the development of a long-term stewardship plan (likely including subsequent monitoring against the baseline) now scheduled for completion during FY2005.

The 6/02 Letter of Intent has been the lodestar for CRESA efforts and its understanding of its role in the Amchitka process

Researchers and Staff Working on Amchitka

Rutgers University

Joanna Burger
Sean Burke
Mark Donio
Christian Jeitner
Henry Mayer
Yuri Mun
Sheila Shukla

Vanderbilt University

Rosanne Delapp
Maryann Emmons
Derek Favret
David Kosson
Dan Riley
Michael Stabin

UMDNJ

Barry Friedlander
Michael Gochfeld
Charles Powers
Art Upton
Vikram Vyas
Carline Dixon

University of Pittsburgh

Conrad Volz

University of Mississippi

James Weston

University of Alaska Fairbanks

David Barnes
Heloise Chenelot
Lawrence Duffy
Anna Forsstrom
Shawn Harper
Max Hoberg
Stephen Jewett
Mark Johnson
Sookmi Moon

University of Alberta

Chrystal Rae
William Shulba
Wolfgang Soyer
Volkan Tuncer
Martyn Unsworth

Researchers and Staff Working on Amchitka

Aleutian Pribilof Island Association

Robert Patrick

Dan Snigeroff

Ron Snigeroff

Timothy Stam

IRM

Lisa Bliss

Joy Hardy

Tariq Siddiqui

Xiomara Waldron

U.S. Fish and Wildlife Service

Department of Energy – NNSA

Alaska Department of Environmental Conservation

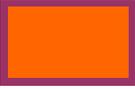
Desert Research Institute

Ocean Explorer – B&N Fisheries

United States Navy

INL – RESL & Bechtel/Batelle

Rutgers University Risk Management Office

	Rutgers	Vanderbilt	UMDNJ	UAF	U Pitt	U Alberta	UMiss
Initial Research/ Workshop							
Assessment Plan Development							
Expedition Plan Development							
Physical Field							
Biological Field							
Sample Def/Prep							
Radionclide Def/Analysis							
Investigation Results							
Study Synthesis							

Introduction to and Context for the Amchitka Assessment Plan, the 2004 Expedition and Subsequent Work

Remembering What Got Us to This Meeting

Two Timelines: Process leading to the Approval of a Science Plan and its Financing

Subsequent Process

Process leading to the Approval of a Science Plan

Initiation of the Effort: ADEC, the Governor of Alaska and the Secretary of DOE – 2000

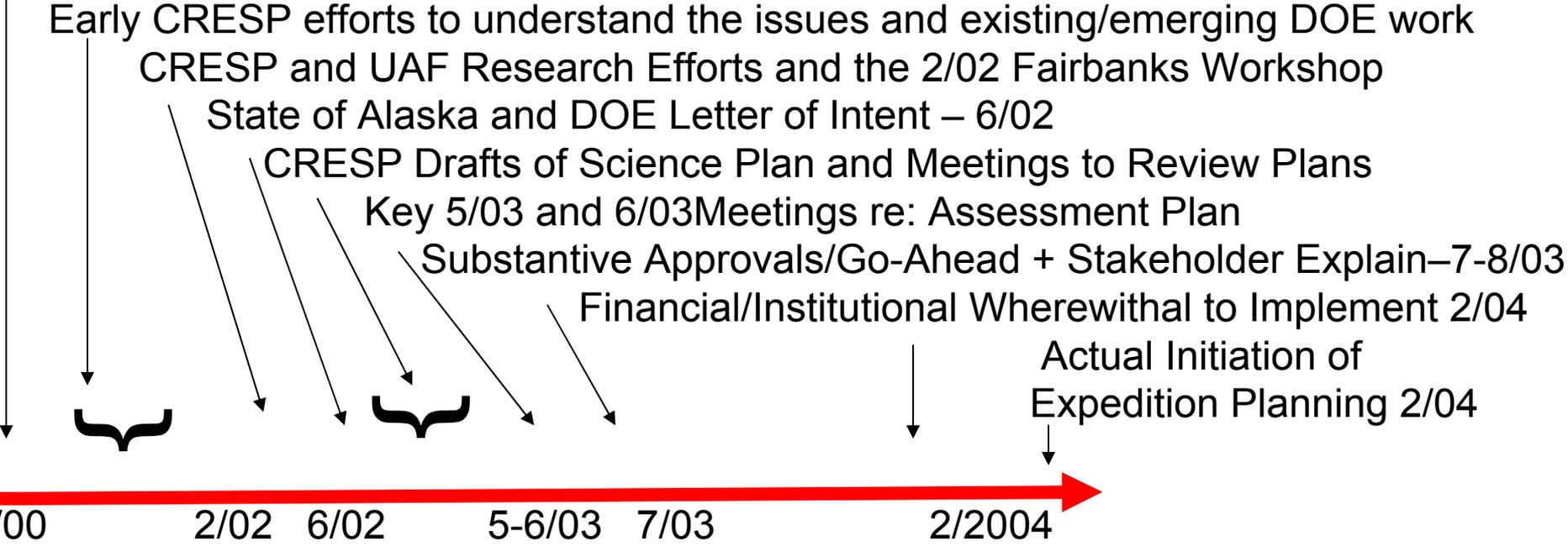
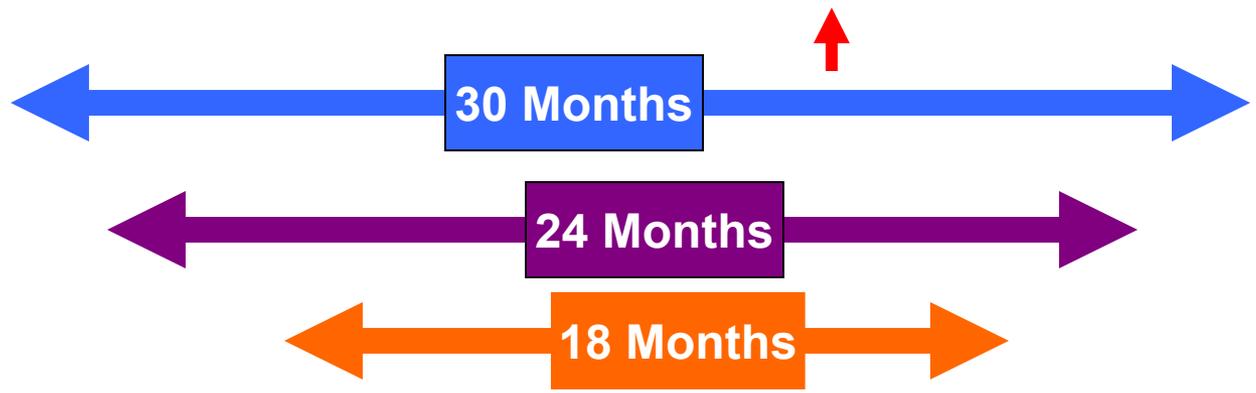


Table 12: Amchitka Science Plan Timeline

	2003 Jan-Sep	2003 Oct-Dec	2004 Jan-Mar	2004 Apr-Jun	2004 July-Sep	2004 Oct-Dec	2005 Jan-Mar	2005 Apr-Jun	2005 July-Sep	2005 Oct-Dec
k1 SAMPLING THE MARINE ENVIRONMENT										
1 Biological Sampling										
1.1 Preliminary Sampling	Plan-coll	Analyze								
1.2 Main sampling			Plan	Plan	Collect	Analyze	Analyze	Plan	Collect	Analyze/report
1.3 Biodiversity			Plan		Collect	Analyze			Collect	Report
1.4 Bioaccumulation					Collect	Analyze	Report			
2 Physical Marine Environment										
2.1 Water Samples					Collect	Analyze				Report
2.2 Sediment Sampling					Collect	Analyze				Report
2.3 Physical Analysis of Sediment					Collect	Analyze				
3 Radioisotope Analysis										
3.1 Biota						Analyze	Analyze	Analyze		Analyze
3.2 Water/sediment								Analyze		
4 Human Food	Collect	Collect			Collect	Analyze				Report
k2 OCEANOGRAPHY										
1 Ocean floor mapping			Plan	Plan	Collect	Collect	Collect	Collect	Collect	Report
2 Salinity structure		Plan			Collect	Analyze				Report
3 Ocean circulation	Model	Deploy	Analyze		Collect	Analyze	Model	Model	Model	Report

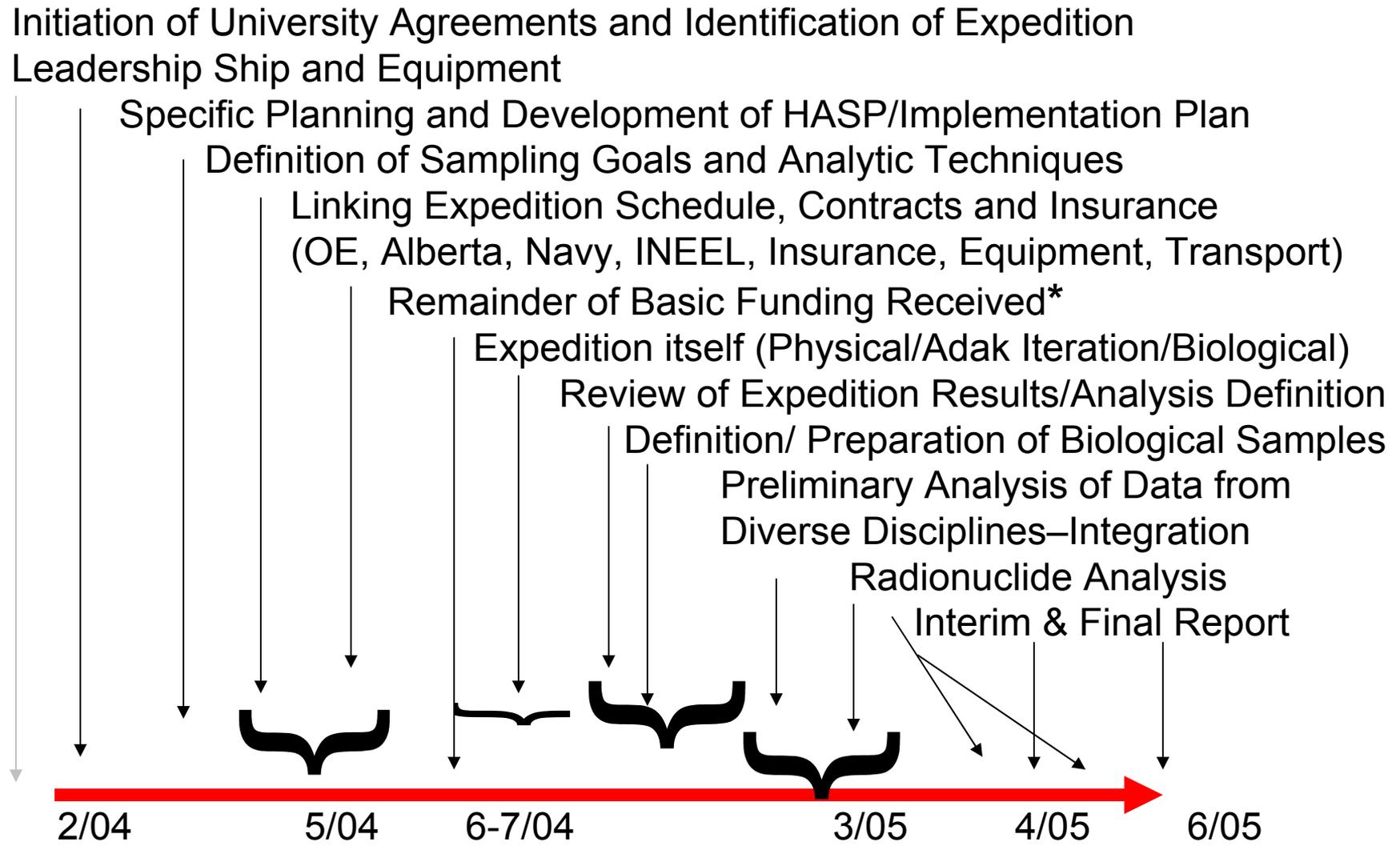


Introduction to and Context for the Amchitka Assessment Plan, the 2004 Expedition and Subsequent Work

		2003 Jun-Sep	2003 Oct-Dec	2004 Jan-Mar	2004 Apr-Jun	2004 July-Sep	2004 Oct-Dec	2005 Jan-Mar	2005 Apr-Jun	2005 July-Sep	2005 Oct-Dec
k 3	GEOLOGY/HYDROLOGY										
1	Data recovery and synthesis	Data recovery and synthesis			Report						
2	Subsurface interface		Plan	Plan	Plan	Collect	Analyze			Collect	Report
3	Groundwater recharge		Plan	Plan	Select	Install	Data	Analyze	Model	Install	Analyze/report
4	Radionuclides at source		Plan	Analyze	Plan			Analyze	Plan		Analyze
5	Water/rock interaction		Develop	Find core	Analyze	Test	Test	Analyze	Report		
6	Sorption on sediments			Plan	Plan	Test	Test	Test	Analyze	Report	
7	Deformation of Amchitka			Plan	Purchase	Deploy	Analyze	Calculate	Model	Analyze	Report
k 4	STAKEHOLDER DIMENSIONS										
	Stakeholder interactions	Meetings-planning		Meetings-planning		Interns in field and lab		Meetings-Planning		Risk communication	
	Long-term monitoring needs	Planning	Date review				Date review	Indicators selection		Analyze	Report
MANAGEMENT AND OVERSIGHT		Ongoing activity through out project cycle									



Process Since Approval and Go-Ahead



Expected Process – the Path Forward

Completion of Analysis
Articulation of Results from Each Segment
Integration of Results

Interim Report

Final Report

Stakeholder Communications

Consistent with the original discussions concerning risk communication of the-complex scientific issues being addressed
– restated throughout the Assessment Plan’s development discussions
- CRESA is committed to integrating the results of all elements of its study into a complete report of its work as a whole rather than making its results available piecemeal.

