NSF Arctic Research Support & Logistics Program Update

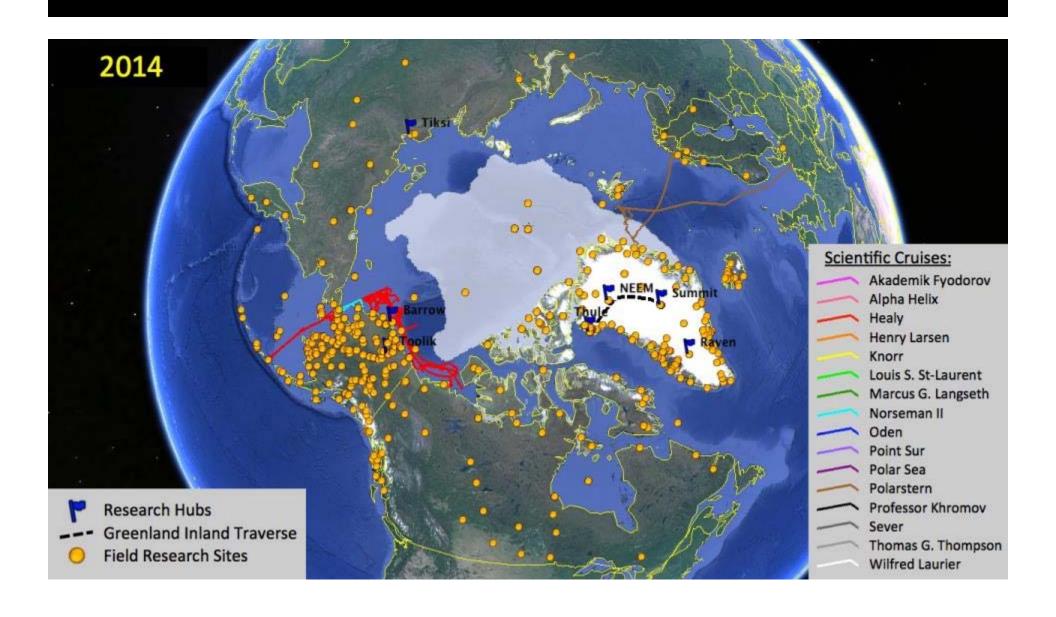


Renée Crain

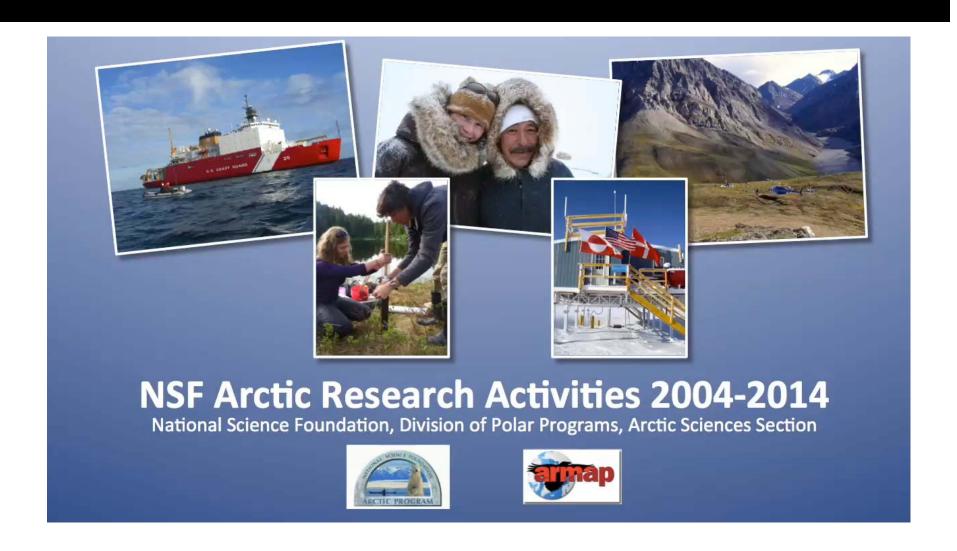
Program Manager Arctic Sciences Section Division of Polar Programs, Geosciences Directorate



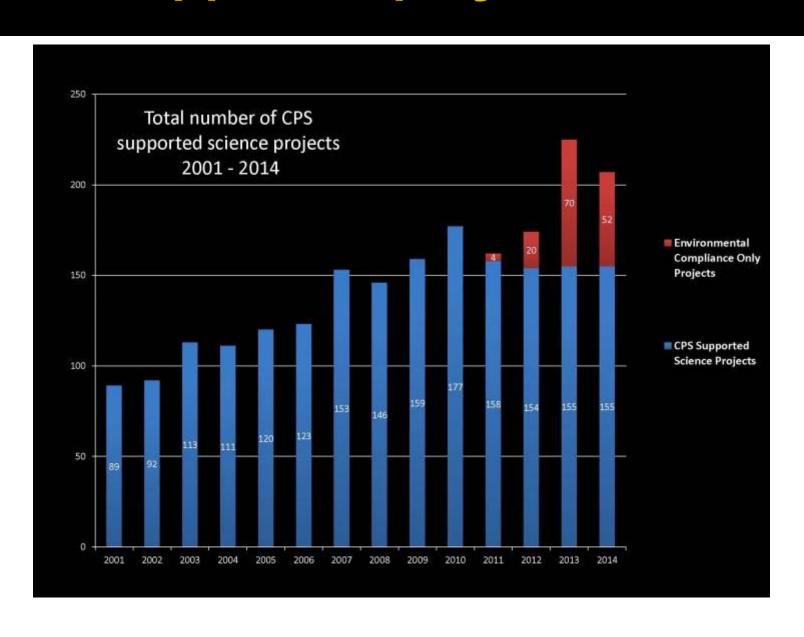
Field Project Locations & Cruises



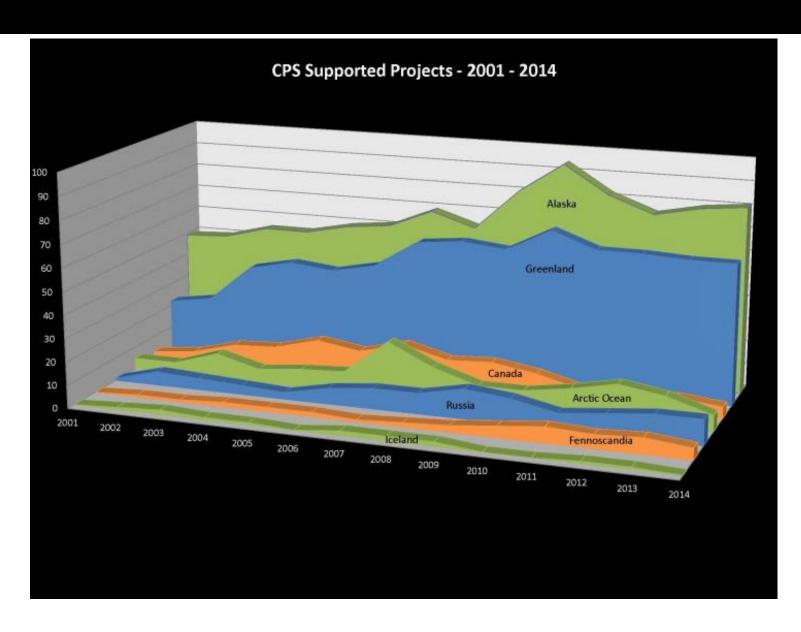
Project Locations & Cruises



RSL-supported projects



Projects by Region



Updates from the RSL Program

- Budget
- Icebreaker plans for 2015
 - Healy Geotraces
 - Polar Star will deploy for McMurdo Break-in
 - Sikuliaq no Polar work in 2015, many STRs under consideration
- Other ships for 2015
 - Louis St. Laurent Proshutinsky in the Beaufort Gyre
 - Russian vessel e.g. Akademic Fyodorov Polyakov Eurasian and Makerov basin observations for NABOS
 - Oden Alan Mix at Petermann Glacier
- Swedish U.S. joint use of Oden proposal
- Environmental Compliance documentation for NSf
- RSL workshop report 2013
- Arctic Field Safety Risk Management

Environmental Checklist

- PIs may be asked to complete NSF's checklist for reviewing and documenting compliance with environmental laws
- CH2M HILL Polar Services
 - Completes checklists for all projects
 - Provides information to agencies for consultation – Historical Preservation Offices, USFWS and NOAA
- Checklists become part of proposal record at NSF

Chapter II.C.2.j, Special Information and Supplementary Documentation...the proposer may be requested to submit supplemental post-proposal submission information to NSF in order that a reasonable and accurate assessment of environmental impacts by NSF may be made. NSF intends to pursue the pilot use of a new institution/Organization Environmental Impacts Checklist in a small number of programs, prior to implementation Foundation-wide.

Proposal Number:				PI	
If applicable, Collaborative Proposal Number(s):				Institution/Organization:	
Proposa	d Title:			80.5	
Part I. A. Does the Proposal only include any of the following activities? (Check all that apply.) 1. Interior ulterations/renovations (regardless of cost) 2. Theoretical and/or laboratory research 3. Data analysis/Modeling 4. Planning/conducting scientific workshops/conferences 5. Conducting day-to-day management activities of federally funded research and development centers 6. Field work not affecting the natural environment				Part I. B. Does the Proposal include any of the following activities 1. Field work affecting the retural environment. 2. Drilling of the earth, excavation and/or use of explosives 3. Weather modification 4. Use of techniques that may after or cause a major disturbance to the local environment. 5. The release of biological-control agents 6. Construction (other than as stated in Part I.A.1.) 7. Transition of technology from the development stage to large-scale commercialization.	
Part II. Yes	Are a	ny of the Maybe	following extraordinary circumstances a [A. Potential impacts (including direct, i	ndirect, and/or cumulative impacts):	
0	0	0	 on threatened endangered species or their habitats, assume mammals, migratory birds, or essential fish habitats 		
0	0	0	on historic, cultural, or archaeological resources		
0	0	0	 on an environmentally sensitive area (i.e., national park, national forest, national wildlife refuge, national marine sanctuary, ecological preserve, etc.) 		
O	Ö	Ö	an the air (i.e., resulting from emissions other than emissions from a single car or vessel)		
0	0	Õ	5. on soils or geological/topographical features		
0	0	0	 on water (i.e., resulting from discharges into wetlands, floodplains, streams, rivers, lakes, or the ocean) 		
0	0	0	 on socioeconomic interests (i.e., impacts on the local economy, schools and education, employment, housing, and/or the population) 		
0	0	0	8. on existing infrastructure		
0	0	0	on existing view planes or other visual resources		
Q	0 0 10, on existing noise levels				
Q	11. on minority or low income populations				
8	8	- 2	that increase environmental and/or safety risks to children that result from the production of hazardous/solid waste or use of hazardous material		
0	0	0	An activity or activities proposed to take place on lands in which Native Americans, Alaskan Natives, or Native Hawaiians have an interest or connection		
0	0	0	 An activity or activities that may have effects on the quality of the human environment that are likely to be highly controversial 		
with th The res	is comp ponses	deted che above ar	eklist.	ents, notes, related environmental compliance documents, maps, etc.	

 $\underline{http://www.nsf.gov/pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pub.fig.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp?org=EFI.pubs/policydocs/pappguide/nsf14001/index.jsp.pubs/policydo$

Central Recommendations:

- Sustain and expand logistics resources
- Build human capacity
- Facilitate
 opportunities to
 improve the
 coordination of
 logistics resources

Increasing Arctic Accessibility Over the Next Twenty Years

Arctic Research Support and Logistics Workshop Report



http://www.arcus.org/logistics/2013-workshop/report

Arctic Field Safety Risk Management

- Workshop February 4-5, 2014
- Outcomes:
 - Increase mentoring of new researchers
 - Increase communication with University Risk Management Offices
 - Increase sharing near-misses to learn from mistakes
- Online near-miss reporting and annual report
- Workshop report in public review stage
 - http://rslriskworkshop.com/

Grantee Responsibility

Chapter VI: Other Post Award Requirements and Considerations

M. Miscellaneous

1. Liabilities and Losses

•NSF assumes no liability with respect to accidents, bodily injury, illness, breach of contract, any other damages or loss, or with respect to any claims arising out of any activities undertaken with the financial support of an NSF grant, whether with respect to persons or property of the grantee or third parties. The grantee is advised to insure or otherwise protect itself or others, as it may deem desirable.

Assistance with Risk Management

Training

- Arctic Field Training
 - April 26 and 27th Northwestern University, Evanston IL
 - March 29 and 30th University at Buffalo, Buffalo NY
 - April 17 and 18 Dartmouth, Hanover NH
 - May 3-4 Woods Hole, Falmouth MA
 - June 6 Barrow AK
 - July 30-31 Reno NV

AMSEA Small Boat Course

- March 12 and 13 Seattle WA
- Telemedicine
- Physical qualification for fieldwork
- Remote Communication satellite phones
- Project Risk Assessments
- Online resources for planning for and mitigating risk

Thank You!

