

Please review all of the following information, including the gear allocations and field team members, to ensure accuracy. This plan is an agreement between VPR and your group, documenting the logistics support you will receive.

• Project Information •

Lead Principal Investigator	Dr. Laura Ray
Institute	Dartmouth College, Thayer School of Engineering
Project Title / Grant #	SGER: Cool Robots: Scalable Mobile Robots for Instrument Network Deployment in Polar Climates (0343328)
NSF Program and Manager	NSF/OPP ACI, Dr. Vladimir Papitashvili
VPR Project Manager	Robin Abbott

• Logistics Summary •

<p>During July-August of 2005, a field team of two will deploy a solar-powered robot at Summit, Greenland. Researchers will measure mobility, solar power capacity, longevity and evaluate the robot's potential as a mobile platform for geophysical experiments on a closed circuit in the vicinity of the station. Conditions permitting, they will run the robot continuously for 24 hrs or more per test. They will also test the robot's performance on a variety of rough snow conditions such as sastrugi, plowed snow berms, etc. The team will use hand-held radio transmitters to communicate with the robot.</p> <p>VPR will support the researchers via ANG arrangements and access to the Summit infrastructure such as housing, work space, etc., though the team plans to be largely self sufficient with respect to instruments and tools.</p>

For the complete VPR online project record for this grant, including science objectives, go to: http://www.vecopolar.com/arlss_reports/arlss_projectsdetail.asp?cbPropNum=0343328

• Outstanding Issues •

Issue	Responsibility	Date Completed
Review support plan for accuracy and distribute to all field team members	PI	14 June 2005
Obtain all necessary permits for fieldwork	PI	
Visit all hyperlinks and review all documents referred to in the support plan	Field Team Members	14 June 2005
Contact the GEOSummit Science Coordination Office (SCO) mailto:sco@geosummit.org regarding your project's plans for the season	PI	14 June 2005
Medical Clearance completed 8-6 weeks before desired deployment date	Field Team Members	12 May 2005
<i>Please note this important information for your field team: Bring 2 different forms of picture ID. Passports are now mandatory for entry into Greenland. Be sure to pack them!</i>	Field Team Members	14 June 2005
Complete Critical Success Factors	PI	14 June 2005

• Allocations & Services •

Allocations from Inventory

Quant/Unit	Item
1	snowmobile (access as necessary to recover robot)
1	snow shovel
20 ft	½" rope for towing robot

Other Services – please list any support you would like to have from VPR.

Project Allocations	Comments
use of heated space to service robot, ~ 10 x 10 ft	with 120 VAC, 20 A to charge batteries
closed circuit to drive robot, ~ 2 km x 2 km	away from other traffic

• Cargo and Customs •

All cargo required for your project should arrive in Scotia, NY no later than 2 weeks prior to the desired northbound Air National Guard (ANG) flight, must be entered into our online Cargo Tracking System, and must be properly registered with customs.

- For Customs requirements refer to the *Greenland Guide*, available at <http://www.vecopolar.com> under Greenland. A separate email was sent to Alex regarding the necessary Customs Registration Forms.

Cargo List for Greenland

Items	Weight/Cube
Robot	est. 400 lb, 4 x 4 x 4 ft
Batteries	est. 50 lb, 1 x 1 x 1 ft
instruments & tools	est. 200 lb, 3 x 2 x 2 ft
clothing & personal gear	est. 200 lb, 3 x 2 x 2 ft

• Support Schedule •

Date	Location	Activity
25 July	Scotia, NY	Fly to Kangerlussuaq
26 July	Kangerlussuaq	Fly to Summit
10-11 Aug	Summit	Arrive back in Kangerlussuaq
13 Aug	Kangerlussuaq	Fly back to Scotia, NY

• Field Team Information •

Name	Location	Date In	Date Out	Email
Alex Streeter	Kangerlussuaq	7/25/2005	8/13/2005	Alexander.D.Streeter@Dartmouth.EDU
Alex Streeter	Summit	7/26/2005	8/10-11/2005	
Jim Lever	Kangerlussuaq	7/25/2005	8/13/2005	James.H.Lever@erdc.usace.army.mil
Jim Lever	Summit	7/26/2005	8/10-11/2005	

• Project Contact Information •

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Dr. Laura Ray	laura.ray@dartmouth.EDU	603-646-1243/603-646-3856
Co-PI	Dr. James Lever	James.H.Lever@erdc.usace.army.mil	603-646-4309/603-646-4477

VPR Team Members

Contact for	Name	Email	Primary Phone(s)
Greenland operations	Robin Abbott	robin@polarfield.com	Denver: 303.748.8507 Greenland: 011.299.524218
Greenland operations	Mark Begnaud	mark@polarfield.com	Denver: 720.320.6160 Greenland: 011.299.524281
Medical	Jason Buenning	jason@polarfield.com	Denver: 303.638.6669
Denver operations	Jill Ferris	jill@polarfield.com	Denver: 720.320.6155
Scotia Operations & Customs	Earl Vaughn	earl.vaughn@nyscot.ang.af.mil vprscotia@direcway.com	Scotia: 518.331.3103

VPR Offices

Denver	Kangerlussuaq	Scotia	Summit
VECO Polar Resources 8392 S. Continental Divide Rd. #104 Littleton, CO 80127-4268 Tel: 303.984.1450/1439 Fax: 303.984.1445	VECO Polar Resources Attn: Name of Employee/Researcher Postboks 1015 DK-3910 Kangerlussuaq, Greenland Tel: 011.299.841598 Fax: 011.299.841599	Earl Vaughn C/O 109 th Aerial Port Bldg. 20 Stratton Air Base Scotia, NY 12302-9752 Fax: 518.884.2904	VECO Polar Resources Attn: Name of Employee/Researcher Postboks 1015 DK-3910 Tel: 321.953.9650 Fax: 321.953.9651

Other

Organization	Internet	Phone
Summit Science Coordination Office	http://www.geosummit.org sco@geosummit.org	N/A

• Permitting •

Permits

Please refer to VPR's *Greenland Guide*, available at <http://www.vecopolar.com> under Greenland, for information about permits required to conduct fieldwork in Greenland.

• Critical Success Factors •

Please list the support factors that are most important for the success of your science. We track these factors in order to measure the success of VPR's support. Examples might be the availability of the helicopter or camp gear.

Factors
access to closed circuit test are for robot
access to heated work space
access to snowmobile to recover robot (if necessary)

• Government Performance and Reporting Act of 1993 (GPRA) •

NSF/OPP requires your help in complying with the Government Performance and Reporting Act of 1993 (GPRA). One measure of VPR's performance is a "facility-performance metric" which counts the number of productive days your project has in the field while relying on VPR facilities or support. Please keep track of any "lost days" and report these to us at the end of the season.