

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

• Project Information •

<b>Lead Principal Investigator</b>	Steven Oberbauer
<b>Institute</b>	Florida International University, Department of Biological Sciences
<b>Project Title / Grant #</b>	IPY: Collaborative Research: Study of arctic ecosystem changes in the IPY using the International Tundra Experiment (0632277)
<b>NSF Program and Manager</b>	NSFOD\OPPARC\ARCSSAON, Dr. Neil Swanberg
<b>VPR Project Manager</b>	Susan Zager (Thule), Naomi Whitty (Toolik)

• Logistics Summary •

This collaborative project is composed of the following: 0632277 (Oberbauer, Florida International University, LEAD), 0632184 (Welker, UAA), 0632144 (Klein, CSU) and 0632263 (Hollister, GVSU). The research represents the US contribution to an international effort to remeasure sites in the International Tundra Experiment (ITEX) during IPY. The researchers will revisit ITEX sites at Toolik Lake, Barrow, and Atqasuk, Alaska; Thule, Greenland; Niwot Ridge, Colorado; and the Tibetan Plateau, China. This database will focus on information for the arctic sites.

The following list describes each PI's field assignment:

- 0632277 (Oberbauer, LEAD): Toolik, Alaska
- 0632184 (Welker): Toolik, Alaska and Thule, Greenland
- 0632263 (Hollister): Barrow and Atqasuk, Alaska
- 0632144 (Klein): Niwot Ridge, Colorado, and Tibetan Plateau, China (field season information for this work will not be carried in this database)

For the Oberbauer component of the collaboration, during 2007 and 2008 a team totaling 5 (one staying the entire season, the others making occasional visits) will measure phenology, community composition, and ecosystem properties using isotopes and remote sensing on the ITEX plots at Toolik at regular intervals over the growing season. They also will complete a one-time community analysis of the Walker 1 km<sup>2</sup> community grids at Imnavait Creek and Toolik (a contractor will assist with some of this work at Imnavait Creek). Similar work will be conducted at Barrow and around the Arctic.

For the Welker component of the collaboration, from 2007-2009, a team of 3 will spend mid-May to mid-September at Toolik Field Station. In addition, teams of 3 will visit sites established at Thule, Greenland, twice annually for 2-week visits in 2007 and 2008, and remain on-site from late May to late September in 2009.

For the Hollister component of the collaboration, in 2007 and 2008, a total of 5 researchers will make trips to Barrow and Atqasuk, Alaska, to resample ITEX (International Tundra Experiment) sites. The plan for this BASC-supported work is not well documented in this plan.

For this project,  
 --At Toolik, VPR will provide user days (~460/yr) and vehicle rentals (~20 days/yr). At Thule, VPR will arrange and pay for AMC travel, lodging, lab space, and truck rentals (~ 14 days/yr).  
 --BASC will provide access to infrastructure and services in Barrow and Atqasuk (user days are estimated at 153 in Barrow and 82 in Atqasuk for both years).  
 --IAB will provide access to infrastructure and services at Toolik.  
 All other support will be arranged by the researchers and funded from the grants.

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=0632277](http://www.vecopolar.com/arlss_reports/arlss_projectsdetail.asp?cbPropNum=0632277)

For up-to-date information on the project's schedule, please view the online [Greenland calendar](http://www.vecopolar.com) ([www.vecopolar.com](http://www.vecopolar.com) > Greenland > Calendars/Schedules).

• Outstanding Issues •

Location	Issue	Responsibility	Date Completed
Both	Review support plan for accuracy and distribute to all field team members	Oberbauer, Welker	
Both	Visit all hyperlinks and review all documents referred to in the support plan	Field Team Members	
Both	Secure vehicles for field team (shared use at Thule)	VPR	01 Apr 07
Greenland	Investigate need for and secure all required permits for Greenland projects	PI	See note in permits section
Greenland	Provide field and vehicle use dates	Welker	13 Apr 07
Greenland	Secure Bldg. 452 for use for season: 2 labs, 2 offices (shared use)	VPR	31 Jan 07
Greenland	Secure lodging in North Star Inn for field team	VPR	31 Jan 07
Greenland	Secure AMC reservations for field team		01 Apr 07
Greenland	Provide ongoing high-speed internet at Bldg. 452 (shared use)	VPR	01 Apr 07
Greenland	Provide exact coordinates and measurements for boardwalk plan/budget to be prepared for NSF consideration	Welker	01 Jun 07
Greenland	Continue working with USAF to secure new office/lab space, keeping PI informed if a move is required in 2007	VPR	
Greenland	Ship ITEX chambers to McGuire AFB by 10 May to ensure 24 May arrival in Thule	Welker	
Greenland	Ship ITEX chambers to Thule	VPR	
Greenland (no factors needed for minor TOO support)	Complete Critical Success Factors	Welker	Completed

• Allocations & Services •

**Accommodations/Vehicles/Other Services – Greenland (Welker, award # 0632184)**

Project Allocations	Comments
4 one-way AMC tickets	
~ 28 user days North Star Inn	
~ 28 days office & lab space Peregrine Fund	With Internet access. Use of Bldg. 452 terminates 09/01/2007; new arrangements may require a move during the field season.
1 ea 4wd pickup	14 Jun - 20 Jul

**Accommodations/Vehicles Allocations- Alaska**

Project Component	Quant/Unit	Item	Comments
Welker, 0632184	360 days	User days, Toolik Field Station.	<a href="http://www.uaf.edu/toolik/">http://www.uaf.edu/toolik/</a>
Oberbauer, 0632277	260 days	User days, Toolik Field Station.	<a href="http://www.uaf.edu/toolik/">http://www.uaf.edu/toolik/</a>
Oberbauer, 0632277	7 days	Truck Support*	7/23 – 7/29: FAI>TFS>FAI
Oberbauer, 0632277	13 days	Truck Support	8/7 – 8/19: FAI>TFS>FAI

**\* Alaska Truck Support:**

*You are responsible for your own fuel. As with all rental agencies, the vehicle we provide you needs to be returned clean, with a full tank of gas. Let us know if your vehicle will be dropped off late, or at a location other than where you picked it up.*

For the duration of your VPR-provided truck rental, you are covered by VPR automobile insurance. Please carry a copy of the following information with you. **If you are involved in an accident, please take photos and contact the Alaska Logistics Manager.**

**Name Insured:**

VECO Corporation  
9000 E. Nichols Ave  
Centennial, CO 80112  
303.792.2211

**Producer:**

Marsh USA Inc.  
1031 West 4<sup>th</sup> Street  
Anchorage, AK 99501  
907.276.5617  
Policy - #BAP534531802

This statement is issued for information purpose only and is subject to terms, exclusions, and conditions of such policy.

• Location Information •

Please visit <http://www.vecopolar.com> and navigate to the Greenland menu for en route and location-specific **Greenland** information. Prior to deployment, your entire field team should be familiar with the content of the *Greenland Guide*.

Team members working in **Alaska** also can find up-to-date information regarding specific locations by visiting our website, <http://www.vecopolar.com/> (navigate to Alaska > Alaska Locations)/

• Cargo and Customs •

The following is our current understanding of your overall cargo requirements:

**Cargo List – Greenland (Welker 0632184)**

Items	Weight/Cube
Welker ITEX chambers-ship to Thule in May of 2008	200 lbs

• Support Schedule •

**Greenland**

The up-to-date travel schedule for Thule is maintained at [http://www.trumba.com/calendars/thule\\_complete](http://www.trumba.com/calendars/thule_complete).

Date	Location	Comments
May 24 - June 8	Thule	
Aug 9 - 24	Thule	

**Alaska**

For up-to-date information, visit <http://www.uaf.edu/toolik/>

Date	Location	Comments
May 24 – Aug 23	Toolik	Oberbauer component includes 20 days truck support and researchers based at Toolik Field Station.
May 28 – Aug 23	Toolik	Welker component includes researchers based at Toolik Field Station.
July 23 – 29	FAI>TFS>FAI	Oberbauer component will use truck support to travel to Imnavait Creek to do point frame measurements.
August 7 – 19	FAI>TFS>FAI	Oberbauer component will use truck support to travel to Imnavait Creek to do point frame measurements.

• Field Team Information •

Name	Location	Date In	Date Out	Days	Affiliation
Steve Oberbauer	Toolik	May 24	May 31	7	Oberbauer
TBD (Oberbauer)	Toolik	May 24	Aug 23	91	Oberbauer
Jeremy Chignell	Toolik	May 28	Aug 23	87	Welker
Jeff Welker	Toolik	June 28	July 5	7	Welker
Keith Boggs	Toolik	June 28	July 5	7	Welker
Robert Pattison	Toolik	June 28	July 16	18	Welker
Bill Gould	Toolik	July 23	July 29	6	Oberbauer
Amy Breen	Toolik	July 23	Aug 19	27	Oberbauer
TBD (Gould)	Toolik	July 23	Aug 19	27	Oberbauer
Steve Oberbauer	Toolik	Aug 13	Aug 16	3	Oberbauer
Paddy Sullivan	Toolik	Aug 16	Aug 23	7	Welker
Pattison, Robert	Thule	May 24	Jun 08	13	Welker
		Aug 09	Aug 24	15	

• Project Contact Information •

**Research Team**

Role	Name	Email	Phone / Fax
Co-PI	William Gould	<a href="mailto:wgould@fs.fed.us">wgould@fs.fed.us</a>	787 766-5335 / 787 766-6302
Collaborator	Robert Hollister	<a href="mailto:hollistr@gvsu.edu">hollistr@gvsu.edu</a>	616 331-8582 /
Collaborator	Julia Klein	<a href="mailto:jklein@nrel.colostate.edu">jklein@nrel.colostate.edu</a>	970 491-7715 /
Co-PI	Caroline Lewis	<a href="mailto:calewis@fairchildgarden.org">calewis@fairchildgarden.org</a>	305 667-1651 /
Principal Investigator	Steven Oberbauer	<a href="mailto:oberbaue@fiu.edu">oberbaue@fiu.edu</a>	305 348-2580 / 305 348-1986
Collaborator	Jeffrey Welker	<a href="mailto:afjmw1@uaa.alaska.edu">afjmw1@uaa.alaska.edu</a>	907 257-2701 / 907 257-2707

**VPR Team Members**

Contact for	Name	Email	Primary Phone(s)
Greenland operations	Mark Begnaud	<a href="mailto:mark@polarfield.com">mark@polarfield.com</a>	Denver: 720.320.6160 Greenland: 011.299.524281
Thule operations	Susan Zager	<a href="mailto:susan@polarfield.com">susan@polarfield.com</a>	Denver: 720.320.6159
Denver operations	Jill Ferris	<a href="mailto:jill@polarfield.com">jill@polarfield.com</a>	Denver: 720.320.6155
Alaska operations	Naomi Whitty	<a href="mailto:naomi@polarfield.com">naomi@polarfield.com</a>	Fairbanks: 907.590.3954
Alaska operations	Tracy Sheeley	<a href="mailto:sheeley@polarfield.com">sheeley@polarfield.com</a>	Fairbanks: 907.388.2498
Alaska operations	Marin Kuizenga	<a href="mailto:marin@polarfield.com">marin@polarfield.com</a>	Fairbanks: 907.590.0755
Alaska operations	Matt Irinaga	<a href="mailto:matt@polarfield.com">matt@polarfield.com</a>	Fairbanks: 907.978.0564

**VPR Offices**

<b>Denver</b>	<b>Fairbanks</b>	<b>Kangerlussuaq</b>
VECO Polar Resources Western Office 8110 Shaffer Parkway Suite 150 Littleton, CO 80127 Tel: 303.984.1450/1439 Fax: 303.984.1445	VECO Polar Resources Alaska Office 2325 King Road Fairbanks, AK 99709 Tel: 907.455.4214 Fax: 907.455.4126	VECO Polar Resources Attn: Name of Employee/Researcher Postboks 1015 DK-3910 Kangerlussuaq, Greenland Tel: 011.299.841598 Fax: 011.299.841599

• Safety, Environment, Health, and Permitting •

**Permits**

Researchers planning to work in **Alaska** are responsible for all permits required. Please visit <http://www.vecopolar.com> and navigate to Alaska > Permits for more information regarding this topic.

Science teams planning to conduct research in **Greenland** must complete an **annual application** in order to obtain approval from the Danish Polar Center (DPC). The application forms are available from the DPC at <http://www.dpc.dk>. Applications are submitted directly through the DPC, rather than through the U.S. State Department. For assistance with the application process, contact:

Poul Henrik Sorensen

E-mail: [phs@dpc.dk](mailto:phs@dpc.dk)

Telephone: +45 3288 0100

**Note:** Per Jeff Welker, the DPC has waived permit requirements for 2007 work conducted at Thule Air Force Base by the Welker component (0632184). VPR understands that the permitting process (at least in regards to work at Thule) may be undergoing some revisions at the time of this writing. As ever, for each project planning to conduct work in Greenland, Pls will work directly with the DPC (or at Thule, the Danish Liaison Officer) to fulfill permit requirements.

• Critical Success Factors •

Please list the 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.

<b>Factors</b>
Delivery of ITEX chambers to Thule in 2007
Securing truck at Thule in all years

• 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.