

Please review all of the following information, including the gear allocations and field team information, to ensure accuracy. This plan is an agreement between CH2M HILL Polar Services (CPS) and your group, documenting the logistics support you will receive.

PROJECT INFORMATION

Lead Principal Investigator	Steven Oberbauer
Institute	Florida International University, Department of Biological Sciences
Project Title / Grant #	Arctic Observing Networks: Collaborative Research: Sustaining and amplifying the ITEX AON through automation and increased interdisciplinarity of observations (0856710)
NSF Program and Manager	NSF\OD\OPP\ARC\AON, Dr. Martin Jeffries
PFS Project Manager	Kim Derry

Note: This season plan contains support for Dr. Welker's work at Thule Air Base only. The NSF grant number for that project is 0856728.

LOGISTICS SUMMARY

This collaboration is a renewal of ITEX research previously funded under lead grant 0632277. The PIs - 0856710 (Oberbauer, FIU, LEAD), 0856628 (Tweedie, UTEP), 0856516 (Hollister, GVSU) and 0856728 (Welker, UAA) - will continue ITEX measurements (and introduce novel "info-mechanical" systems to the research) at ITEX plots established at Barrow, Atqasuk, Toolik, and Imnavait Creek, Alaska, and Thule Greenland, for a 5 year period - 2010 through 2014.

In 2010, the PIs will field small teams (of about two per PI, with the exception of Welker's Thule work) at all locations for site selection and installation of experimental equipment, including CPS installation of boardwalk/matted trail and renewable energy power/comms systems in the Toolik area.

Dr. Welker will have a field team of three.* The researchers will travel to the Thule air base via AMC flight in late May / early June, and will spend the summer in Thule. They will be housed in the TSAR, where they also will have access to laboratory space, and will travel to and from their study sites via truck. At the end of the summer, they will store their experiment equipment and depart the station, again via AMC flight.

At Thule, CPS will provide AMC travel and vehicles and coordinate provision of power to the experiment site. UNAVCO will provide high precision GPS/LiDAR equipment and technical support as needed. The PIs will arrange for all other logistics (meals in Thule, for example), and pay for them through the grant.

*Jeff Welker, Josh Schimel (0733074), and Claudia Czimczik (0909514) have agreed to pool their NSF-approved personnel resources. NSF has approved a total of 19 researchers to be supported in the field for these three teams in 2010. Welker's research will use six of those approved personnel, though his allocation is for a team of three. See Claudia Czimczik's season plan for the additional personnel.

For the complete CPS online project record for this grant, including science objectives, go to: http://www.polar.ch2m.com/arlss_reports/arlss_projectsdetail.asp?cbPropNum=0856710

For up-to-date information on the project's schedule, please view the online Greenland calendar (<http://www.polar.ch2m.com/> > Greenland > Calendars/Schedules).

OUTSTANDING ACTIONS AND NOTES

Issue	Responsibility	Date Due	Date Completed
Review support plan for accuracy and distribute to all field team members	PI		

Obtain all necessary permits for fieldwork	PI		
Visit all hyperlinks and review all documents referred to in the support plan	Entire Field Team		
Note: Passports are required for Air National Guard and international travel. Also, please bring TWO copies of your passport to Greenland with you.	Entire field team		
Complete Critical Success Factors	PI		
Obtain Danish Ministry permissions	CPS		4/24/2010
Obtain USAF permissions	CPS		4/24/2010
Make AMC flight reservations	CPS		4/26/2010
Keep TSAR (Bldg. 353) orderly and clean	PI		
Remove project-specific items from Building 353 and store in Building 628 at the end of season	PI		
Provide information for clearances	PI		
Complete Critical Success Factors	PI		

Other Services

Service	Comments
Truck Rental from GC	27 May – 27 August
Cargo via 109 th	3 May
AMC tickets	3 round-trip (See note on Welker, Schimmel and Czimczik resource sharing at the end of the logistics summary),
Lodging at TSAR (Bldg. 353)	3 people (researchers pay for meals)
Clearances, USAF & Danish	
Internet access in TSAR Bldg. 353	
Storage, Bldg. 628	
Access to wet lab in TSAR Bldg. 353	
Provide power to study site	

LOCATION INFORMATION

Please visit <http://www.polar.ch2m.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* and, if traveling to Summit, with the guidelines provided in the *Summit Users' Guide*. Both are available electronically via our Web site's Greenland menu.

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 the most current ANG flight schedule go to <http://www.polar.ch2m.com/> and navigate to Greenland > Calendars/Schedules.

If you are a **new user** requiring access to the Cargo Tracking System, contact [Jason Buenning](#).

(If you need **technical support** with the Cargo Tracking System, contact [Mike Dover](#) .

Customs instructions are available on our Web site at <http://www.polar.ch2m.com/> (go to Greenland > Customs). More information is available via the *Greenland Guide*, under Greenland on the CPS site.

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

Cargo List

Items	Weight/Cube
Assorted cargo and haz mat	

For the most up-to-date information on the project's schedule, please view the online Greenland calendar (<http://www.polar.ch2m.com/> > Greenland > Calendars/Schedules).

FIELD TEAM INFORMATION

Name	Location	Date In	Date Out	Email
Welker, Jeffrey	Thule	05/27/10	06/11/10	afjmw1 at uaa.alaska.edu
McDonald, Shane	Thule	05/20/10	08/27/10	
Blain, Matthew	Thule	05/27/10	08/20/10	

PROJECT CONTACT INFORMATION

(Partial) Research Team*

Role	Name	Email	Phone / Fax
Principal Investigator	Steven Oberbauer	oberbaue at fiu.edu	305 348.2580 /305 348.1986
PI (0856728) collaborator (0856710)	Jeffrey Welker	afjmw1 at uaa.alaska.edu	907 257.2701 /907 257.2707

*Note: for other collaborating PIs, see the list in the first sentence of the logistics summary

CPS Team Members

Contact for	Name	Email	Primary Phone
Thule science planning & support	Kim Derry	Kim at polarfield.com	Denver: 303.349.6382
Greenland science planning & support	Robin Abbott	Robin at polarfield.com	Denver: 303.748.8507
Kangerlussuaq base operations	Kathy Young	Kathy at polarfield.com	Denver: 720.320.6160 Greenland: 011.299.524218
Scotia (Stratton Air Base) operations & customs	Earl Vaughn	Earl Vaughn at gmail.com	Scotia cell: 518.605.0979

CPS Offices

Denver	Kangerlussuaq	Scotia
Polar Field Services 8110 Shaffer Parkway Suite 150 Littleton, CO 80127 Tel: 303.984.1450/1439 Fax: 303.984.1445	CH2M HILL Polar Services 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 Tel: 518.344.2635 Cell: 518.605.0979 Fax: 518.344.2537

SAFETY, ENVIRONMENT, HEALTH and PERMITS

Effective January 1, 2010 the Government of Greenland assumed responsibility for the permitting process for research in Greenland. All science teams planning to conduct research in Greenland must complete an **annual application** in order to obtain approval from the Government of Greenland. The application forms are available from the Department of Domestic Affairs, Nature and Environment at <http://www.nanog.gl/expeditions> or by sending an email to ekspeditioner@gh.gl. Applications are submitted directly through the Department of Domestic Affairs, Nature and Environment. Be advised that a new fee of 4000 DKK has been put in place for permits. For assistance with the application process, contact:

Martin Schiøtz
 Head of Section
 Section of Nature
 Department of Domestic Affairs, Nature and Environment P.O. Box 1614
 3900 Nuuk
 Greenland
 e-mail: ekspeditioner@gh.gl

RISK ASSESSMENT

See Appendix for Risk Factors and Mitigation.

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 CPS' support. Examples might be the availability of the helicopter or camp gear.

Factors
Securing vehicle rental
Assuring lodging is available
Providing power to the site

GOVERNMENT AND PERFORMANCE 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 CPS' performance is a "facility-performance metric" which counts the number of productive days your project has in the field while relying on CPS facilities or support. Please keep track of any "lost days" and report these to us at the end of the season.

APPENDIX

RISK FACTORS and MITIGATION

Factor	Mitigation and Control
Structure Fire	-Fire extinguishers available in all buildings
Cold Weather	-Proper clothing -Check forecast before going out of camp/town.
Foot travel	-Communication plan in place (carry a radio)