

PROJECT INFORMATION

Lead Principal Investigator	Claudia Green (Czimczik)
Institute	University of California, Irvine, Earth System Science
Project Title / Grant #	Collaborative Research: Environmental changes alter the carbon cycle of High Arctic ecosystems: shifts in the ages and sources of CO ₂ and DOC (0909514)
NSF Program and Manager	NSF\OD\OPP\ARC\ARCSS, Dr. Neil Swanberg
PFS Project Manager	Kim Derry

LOGISTICS SUMMARY

For this collaborative effort between 0909514 (Czimczik, U of California, LEAD), 0909538 (Welker, UAA) and 0909510 (Schimel, UCSB), researchers will conduct an analysis of carbon dynamics in the high arctic. Science teams will work at Thule Air Base seasonally from spring 2010 through Sept 2012.

For the duration of the experiment, teams of 4 will conduct field measurements during one week trips in April of each year, in addition to a long summer field season from May to September. A team of 2-6 people will join the core team of 4 for two weeks in May of each year to help set up the summer experiments.

Note: 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. Claudia Czimczik's season plan carries the additional personnel.

CPS will provide AMC travel, Thule user days, vehicle rentals and helicopter support when the road to the polar desert site is not accessible. In addition, CPS will provide power to the experiment site. The PI will arrange and pay for all other logistics through the grant.

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=0909514

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 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	
Construct shelter for experiment	PI	
Obtain Danish Ministry permissions	CPS	4/24/2010
Obtain USAF permissions	CPS	4/24/2010
Make AMC flight reservations	CPS	4/24/2010
Keep TSAR (Bldg. 353) orderly and clean	PI and team members	
Remove project-specific items from Building 353 and store in Building 628 at the end of season	PI	
Provide information for clearances	PI	
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	

ALLOCATIONS AND SERVICES

Other Services

Service	Comments
Truck Rental from GC	27 May – 2 August
Cargo via 109 th	10 Mar, 3 and 20 May
AMC tickets	10 round-trip (See note on Welker, Schimmel and Czimczik resource sharing at the end of the logistics summary)
Lodging at TSAR (Bldg. 353)	10 people (researchers pay for meals). Team will stay in North Star Inn if TSAR reaches capacity
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	
Helicopter support	To access experiment site if inaccessible by road

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*. 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 Buening](#).

(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:

Items	Weight/Cube
Assorted cargo and haz mat	

FIELD TEAM INFORMATION

Name	Location	Date In	Date Out	Email
Claudia Green (Czimczik)	Thule	05/27/10	06/11/10	czimczik@uci.edu
Kim Green	Thule	06/03/10	06/11/10	kngreen@uci.edu
Hannelore Ulrike Seibt	Thule	06/17/10	07/09/10	useibt@gmail.com
Kadmiel Maseyk	Thule	06/17/10	07/09/10	kadmiel.maseyk@gmail.com
Aubrey Stills	Thule	06/24/10	07/30/10	astills@uci.edu
Massimo Lupascu	Thule	05/27/10	08/20/10	mlupascu@uci.edu
Seneca Lindsey	Thule	07/22/10	08/20/10	dlindsey@uci.edu
Zeng, Fanwei	Thule	06/03/10	06/18/10	fwzeng@gmail.com
Sharp, Beth	Thule	05/27/10	08/20/10	esharp0369@gmail.com
Cohn, Brian	Thule	06/03/10	06/11/10	

PROJECT CONTACT INFORMATION

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Claudia Czimczik	czimczik at uci.edu	949 824.5693 /
Collaborator	Joshua Schimel	schimel at lifesci.ucsb.edu	805 893.7688 / 805 893.4724
Collaborator	Jeffrey Welker	afjmw1 at uaa.alaska.edu	907 257.2701 / 907 257.2707

CPS Team Members

Contact for	Name	Email	Primary Phone
Greenland science planning & support	Susan Zager	Susan at polarfield.com	Denver: 720.320.6159
Thule science planning & support	Kim Derry	Kim at polarfield.com	Denver: 303.349.6382
Scotia (Stratton Air Base) operations & customs	Earl Vaughn	Earl Vaughn at gmail.com	Scotia cell: 518.605.0979
Remote Medical (kits & service) and Medical/Dental Clearance (PQ)	Robbie Score	Robbie at polarfield.com	Denver: 303.906.0093

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

Other

Organization	Internet	Phone
Medical Advisory Service (MAS) (see below for Remote Telemed #)	http://www.medaire.com/corp_medlink.html	Office: 480.333.3771

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 at gh.gl](mailto: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 at gh.gl](mailto:ekspeditioner@gh.gl)

Medical Clearance

Arctic Program participants traveling into the Greenland field generally must pass a National Science Foundation-mandated physical and dental exam. All field team members should plan to complete their Physical Qualification (medical and dental clearance) process 6-8 weeks prior to travelling to Greenland. For more information, refer to CPS' *Greenland Guide*, available at <http://www.polar.ch2m.com/> under Greenland.

Medical Advisory Service (MAS) Support

If you need medical advice/assistance, do not hesitate to contact Medical Advisory Service (MAS) using the card included with the medical kit or the information below. Be sure that each team member knows where the kit is located and understands how to use the MAS service in the field. For further information on MAS, please visit our Web site <http://www.polar.ch2m.com/> and navigate to Medical>Remote Medical Services/Kits.

MAS 24/7 Telemed Service

Worldwide Phone: 1.480.333.3876
 Fax: 1.480.333.3821
 Member ID: CH2M HILL Polar Services

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
Continuous power at warming+water experiment (North Mnt.)
Truck rental for travel to experiment at N Mnt.
Internet connection at TSAR (we will be sending a lot of data from automated measurements for analysis at UCI and UCLA)

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

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)