

PROJECT INFORMATION

Lead Principal Investigator	Thomas McGovern
Institute	City University of New York, Hunter College, Department of Anthropology
Project Title / Grant #	IPY: Long Term Human Ecodynamics in the Norse North Atlantic: cases of sustainability, survival, and collapse (0732327)
NSF Program and Manager	NSFOD\OPPARC\ASSP, Dr. Anna Kerttula
PFS Project Manager	Kim Derry

LOGISTICS SUMMARY

As part of an international cooperative effort to conduct multi-site, regional-scale archaeology, the PI will continue excavations in Greenland, Iceland, and the Faroe Islands begun under his previous NSF grant, 0352596. The researchers will explore regional-scale questions of differential climate impact, origins and spread of commercial fisheries, and the role of inter-regional trade and exchange. The particular effort will involve coordinating midden excavations, conducting zooarchaeological analysis, and providing student training through the North Atlantic Biocultural Organization, or NABO.

In the summers of 2008-2010, a large international group carried out major excavations and survey work on Sandoy in the Faroe Islands, in the northwest and Lake Myvatn areas of Iceland, and at sites near Qaqortoq and Qassiarsuk, in southern Greenland.

The PI returns to the field in early June 2010. Then, the researchers will field a joint project with their Danish and Greenlandic colleagues in south Greenland, assembling in Narsarsuaq after travelling there via various modes of transport, including commercial air via Iceland and Denmark, and ANG transport through Kangerlussuaq. The team will work out of the Igaliku/Narsarsuaq/Qaqortoq area on two major efforts.

On June 3rd the team of 7 led by Konrad Smiarowski will establish a tent camp and start excavating a Norse Farm site at E172 Tatsip Ataa, a continuation of a deep stratified midden excavation from 2007 and 2009. They will take environmental samples (animal bones, soil samples, pollen cores, wood samples) and archaeological artifacts to be analyzed at different labs. The excavation will be underway for 2 months.

On August 5th, the team will move the camp from E172 excavation site, to E64 site Innoquassaq, a Medieval Norse churchyard. This is also a continuation of an excavation from 2007 and 2008 aimed at genetic, osteological, and isotopic work on human bones.. This part of the fieldwork will be directed by Jette Arneborg.

During the entire 3 months of the field project small teams will take several ~1-2 day survey trips to other archaeological sites in the area for measurements.

As a part of an outreach/education component of the project, Christian Madsen and Konrad Smiarowski will give talks at the High School in Qaqortoq sometime in early July and invite local schoolchildren to the research site, where they will learn more about archaeology and science and participate in a supervised archeological fieldwork, as well as discussions of the work and preliminary results of the project in a laboratory/classroom setting.

For the work in Greenland in 2010, CPS will provide KISS user days, ANG coordination, intra-Greenland commercial air, freight, and safety/communications/camping gear. All other logistics will be handled by the investigators from the grant or via arrangements with local collaborators.

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=0732327

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	
Keep all receipts. For speedier reimbursement, turn them in to your project manager as soon as your fieldwork is complete.	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	05/24/2010

ALLOCATIONS AND SERVICES

Allocations from Inventory

Quant/Unit	Item
3 ea	Iridium phones – will be picked up in Kangerlussuaq
1 ea	Medical Kit – will be picked up in Kangerlussuaq
Lot	Camping gear allocated previously to project

For more information on satellite phones, radios, manuals and other field communications support, please visit the CPS communications Web site at <http://www.polar.ch2m.com/>.

Other Services

Service	Comments
Arrangements made for travel with the 109 th ANG Scotia, NY > Kangerlussuaq	3 passengers
Cargo to be shipped to Narsarsuaq	Ship to Jacky Simond to HOLD at Air Greenland
KISS user days	3 people/ in/out of Kangerlussuaq
Air Greenland commercial air	Kanger><Narsarsuaq

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*, 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:

Items	Weight/Cube
Asst cargo	700 kg/ 2.5 m3
Retro of PFS-issue gear to Kangerlussuaq	700 kg / 2.5 m3

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

Note: The PI's European collaborators will fly direct to Narsarsuaq, thus requiring no Kanger transit.

Name	Location	Date In	Date Out	Email
Arneborg, Jette	Narsarsuaq	08/04/10	08/28/10	Jette.Arneborg at natmus.dk
Bolduc, Louis-Carl	Kangerlussuaq	06/02/10	07/30/10	
Bolduc, Louis-Carl	Narsarsuaq	06/03/10	07/30/10	
De La Paz, Jade	Kangerlussuaq	06/02/10	08/24/10	
De La Paz, Jade	Narsarsuaq	06/03/10	08/24/10	
Heide, Poul	Narsarsuaq	07/07/10	07/31/10	
Kolosek, Tomasz	Narsarsuaq	06/02/10	08/06/10	
Madsen, Christian	Narsarsuaq	06/15/10	08/28/10	ckmadsen at gmail.com
Mustchin, Antony	Narsarsuaq	06/02/10	08/06/10	
Nielsen, Michal	Narsarsuaq	06/30/10	07/22/10	
Smiarowski, Konrad	Kangerlussuaq	06/02/10	08/19/10	zaglobax at yahoo.com
Smiarowski, Konrad	Narsarsuaq	06/03/10	08/19/10	

PROJECT CONTACT INFORMATION

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Thomas McGovern	tmcgover at hunter.cuny.edu	212 772.5654 / 212 772.5423

CPS Team Members

Contact for	Name	Email	Primary Phone
Greenland science planning & support	Robin Abbott	Robin at polarfield.com	Denver: 303.748.8507
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
Sat phones & comms	Roy Stehle	Roy.Stehle at sri.com	Menlo Park: 650.859.2552
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.nanoq.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 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
Camp gear, satellite phones, medical kit availability, content and MAS
ANG flights availability, Air-Greenland flights availability
KISS availability
Cargo shipment in UAK before June 2 nd
The return sample shipment should arrive back in NY on the 109th Air Guard plane along with the researcher, Konrad Smiarowski on August 19 th 2010.
Retro of PFS-issue gear to Kangerlussuaq should happen by Air-Greenland cargo system on August 28 th 2010

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
2010 Risk Assessment	
Cold Weather	-Cold Weather injury training (WFR) -Proper clothing -Appropriate camping gear -Check forecast before going out of camp/town.
Heavy lifting/body strains and sprains	Team lifting/coordination
Helicopter Travel	-Helicopter training -SAR plan in place
Medical fitness for remote work outside ANG flight period	NSF Physical Qualification
Power Tools	Power Tools training/AHA
Remote Camp	-MAS available -SAR plan in place -First Aid kit available -Communication/ check-in plan in place -Maintain a list of current camp member's training levels and certifications -Maintain back-up equipment and supplies in case of emergency (comms, generators, tents, food)
Water – Availability, Potability	-Filtration system -Carry in