



Isaaffik Arctic Gateway

www.isaaffik.org

Connecting Arctic Research, Education, Consultancy and Logistics
(within the Kingdom of Denmark)

How to Connect Arctic Research Across Boundaries
Arctic Circle Assembly, 8 October 2016, Reykjavik, Iceland

Peter Schmidt Mikkelsen

Lead Coordinator: Isaaffik Arctic Gateway

Arctic Science Partnership / Greenland Institute of Natural Resources / Aarhus University

Why Isaaffik?



- To support Arctic research collaboration across universities and research institutions - initially in the Kingdom of Denmark (Denmark, Greenland, Faroe Isl.)
- To support sharing of logistics in remote Arctic areas (cost saving)
- To map the Greenland research infrastructure



Background



- In September 2014 representatives of the entire Arctic scientific community in the Kingdom of Denmark gathered for a conference, called *The Arctic Initiative*
- The purpose was to strengthen collaboration between the universities and research centers
- Four workgroups were formed: Research, Education, Consultancy, and Logistics
- Logistics group task: Develop a website to support *The Arctic Initiative*
- Target: Website in the air (version 1) by April 2015
- "Isaaffik" is the Greenlandic word for "gateway"



Isaaffik partners



FI – AU – DMI – GEUS – GN – DTU – KU – SDU – AAU – AKO

All major Arctic research centers and universities in the Kingdom of Denmark
& Ministry of Science and Joint Arctic Command



Basic principles of Isaaffik



- Provide overview
- Independent website
- Not a replacement for existing websites; but a supplement
- Links to existing sources
- Central guidance (by a coordinator) – decentral maintenance (by local partner coordinators)



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RESEARCH

Upcoming events and latest articles about Arctic research

EDUCATION

Plans and news about Arctic education and courses

CONSULTANCY

Research-based innovation and consultancy services

LOGISTICS

News and events concerning logistics and infrastructure

TRAVELS

Itinerary	Departure	Area	Transport	Status
NE Greenland KNUD-CLASS	19/8 - 01/10 2016	NE Greenland	Naval ship	Closed
Akureyri to North East Greenland	Every week/second week April-October 2016	NE Greenland	Civil fixed-wing aircraft	Open
NE Greenland	2016	NE Greenland	Military fixed-wing aircraft	Open
Station Nord, Kap Morris Jesup, Danmarkshavn	15. juli - 15. august 2017	NE Greenland	Civil helicopter	Idea



TRAVEL PLAN



TRAVEL IDEA

Research

Upcoming events and latest articles about Arctic research

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EVENTS



Event	Date	Location	Activity
"Isaaffik+" workshop nr. 1	29 September 2016 kl. 11:00 to kl. 15:00	Uddannelses- og Forskningsministeriet, Workshop Bredgade 43, 1260 København K. Mødelokale B i stueetagen.	
"Isaaffik+" workshop nr. 2	6 October 2016 kl. 09:00 to kl. 11:00	Linkfactory AS, Bredgade 66, Copenhagen K, Denmark	Workshop
Arctic Circle 2016	7 October 2016 kl. 08:00 to 9 October 2016 kl. 16:00	Reykjavik	Conference
WORKSHOP ON FIELD ACTIVITIES AND LOGISTICAL COOPERATION IN THE POLAR REGIONS IN 2017-2018	31 October 2016 kl. 11:00	DTU, Anker Engelunds Vej 1, 2800 Kgs. Lyngby, Meeting Room 1	Workshop

ARCTIC CIRCLE 2016

Date 7 October 2016 kl. 08:00 to 9 October 2016 kl. 16:00

Location Reykjavik

Activity Conference

Tags **Research**

Education

Consultancy

Logistics

Login to register

The Arctic Circle is designed to increase participation in Arctic dialogue and strengthen the international focus on the future of the Arctic. To this end, the Arctic Circle aims to create opportunities for everyone to attend different meetings, conduct their own networking and engage in one-on-one informal discussions.

The annual Arctic Circle Assembly has become the largest international gathering on the Arctic, attended by more than 2000 participants from 50 countries. The Assembly is held every October at the Harpa Conference Center and Conference Hall in Reykjavík, Iceland. In addition, the Arctic Circle organizes smaller forums on specific subjects, such as the 2015 forums in Alaska and Singapore, and the 2016 forums in Greenland and Québec.

The Arctic Circle is nonprofit and nonpartisan. Organizations, forums, think tanks, corporations, governmental bodies and public associations around the world are invited to hold meetings within the Arctic Circle platform to advance their own missions and the broader goal of increasing collaborative decision-making while maintaining their institutional independence.

Read more at: <http://arcticcircle.org/>

PARTNERS



Research

Upcoming events and latest articles about Arctic research

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Upcoming events and latest articles about Arctic research

EDUCATION

Plans and news about Arctic education and courses

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LOGISTICS

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EVENTS



« PREV

OCTOBER 2016

NEXT »

- Research
- Education
- Consultancy
- Logistics
- Select All

MON	TUE	WED	THU	FRI	SAT	SUN
26	27	28	29	30	1	2
3	4	5	6 "Isaaffik+" workshop nr. 2 6 October 2016 kl. 09:00 to kl. 11:00	7 Arctic Circle 2016 7 October 2016 kl. 08:00 to 9 October 2016 kl. 16:00	8	9
10	11	12	13	14	15	16

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Polarforskningskonference 2016	1 November 2016 kl. 10:30 to 2 November 2016 kl. 13:30	DTU, Odion Salen	Conference
Greenland Conference 2016	24 November 2016 kl. 08:30		Conference

[Show more](#)**ISAAFFIK AT THE WHITE HOUSE****2 October 2016**

The Danish Minister for Higher Education and Science highlights the Isaaffik portal at the White House Arctic Science Ministerial In Washington 28 September 2016.

FOLLOW US ON FACEBOOK

Join us on ISAAFFIK RESEARCH, a facebook chat room dedicated to people involved in Arctic scientific research. Read the latest posts, share ideas, and participate in discussions.

[Go to facebook](#)**INTERACT FUNDED FOR 2016-20****30 August 2016**

The EU-project INTERACT (International Network for Terrestrial Research and Monitoring in the Arctic) has been funded with 10 mio. EURO by EU Horizon 2020 for the period 2016-20. The...

HINDSGAVL II WORKSHOP**29 June 2016**

Aarhus Universitet, Danmarko Tskniske Universitet og Kbenhavns Universitet inviterede arktiske forskere og forvaltere til en workshop på Hindsgavl Slot, Middelfart, den 29.-30. marts...

ISAAFFIK 2.0**26 June 2016**

Version 2 of the platform is now available including a variety of new features

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TRAVEL PLAN



TRAVEL IDEA

TENTATIVE AKO FLIGHT SCHEDULE 2016

Itinerary **NE Greenland**

Departure **2016**

Area **NE Greenland**

Transport **Military fixed-wing aircraft**

Status **Open**

Open seats **TBD Space available**

Available payload **TBD Space available**

[Login to register](#)

[View contact info](#)

DESCRIPTION:

Joint Arctic Command (JACO) expect to fly according to the tentative transport schedule shown in Table 1. If space is available JACO can offer transport opportunities for scientists / scientific purposes.

Table 1: Tentative JACO transport schedule 2016 for Northeast Greenland (NEG)

Month	No of flights	Aircraft type	Purpose	Application deadline	Comments
01	1 flight	C-130	Cargo & PAX to NEG		
02	2 flights	C-130	Cargo & PAX to NEG		
03	1 flight	C-130	Cargo & PAX to NEG		
04	6 flights	IL-76/C-130	Fuel lift		
04	2 flights	C-130	Cargo & PAX to NEG		
05					
06	1 flight	C-130	Cargo & PAX to NEG		
07	4 flights	C-130	Cargo & PAX to NEG		
08	5 flights	C-130	Cargo & PAX to NEG		
09					
10					
11	1 flight	C-130	Christmas drop NEG		
12	1 flight	C-130	Christmas flight St. Nord		

TERMS AND PRECONDITIONS:

- Applicant must be a registered member of Isaaffik.

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TRAVEL PLAN

Planning an expedition in the Arctic? Post your travel to find professional collaborators to share expenses and cut costs.

Post



TRAVEL IDEA

Want to co-fund travel expenses to a specific destination? Propose your idea to look for professional collaborators.

Propose

Main Content *

Contact info

Title *

My Arctic travel idea

Itinerary *

Station Nord to Kap Morris Jessup

Departure

July 2017

Area

N Greenland

Transport

Civil helicopter

Status

Idea

Open seats

2

Available payload

300 kg

Body

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent, Undo, Redo, Link, Unlink, Text Color, Background Color, Text Size, Font Family, Font Color, Normal, Table, and Image.

Here is a description of my Arctic travel idea

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- +
- Habitations** +
- Town
- Settlement
- Station
- Hut
- Research facilities** +
- Gateways** +
- Authorities** +
- Logistics & services** +
- Field activities** +
- People** +

- Habitations** +
- Research facilities** +
- Research station
- Weather station**
- Monitoring site
- Ship
- Boat
- Gateways** +
- Authorities** +
- Logistics & services** +
- Field activities** +
- People** +

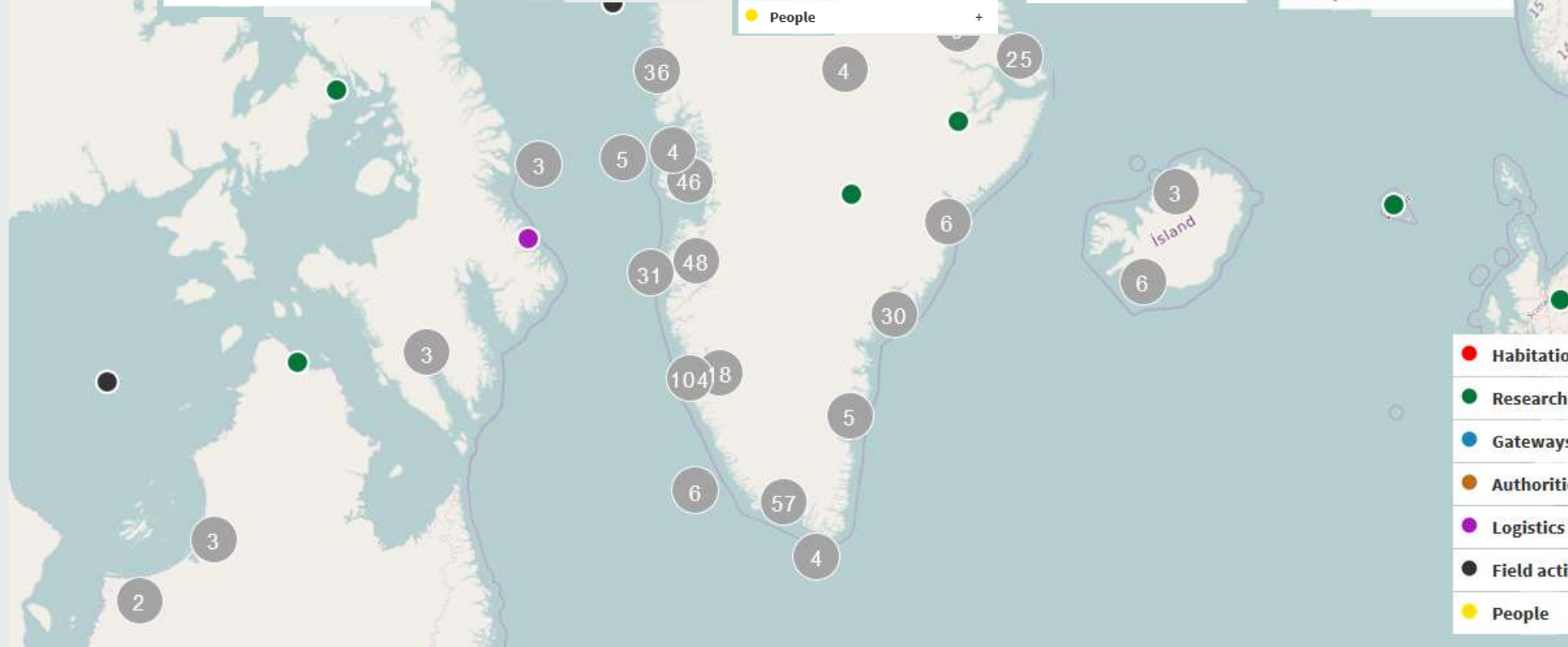
- Habitations** +
- Research facilities** +
- Gateways** +
- International airport
- Regional airport
- Helistop
- Military airfield
- STOL airstrip
- Ski airstrip
- Harbour
- Authorities** +
- Logistics & services** +
- Field activities** +
- People** +

- Habitations** +
- Research facilities** +
- Gateways** +
- Authorities** +
- Research & education
- Governmental
- Military
- Police
- Medical
- Other authority
- Logistics & services** +
- Field activities** +
- People** +

- Research facilities** +
- Gateways** +
- Authorities** +
- Logistics & services** +
- Airline
- Shipping
- Field services
- Accommodation
- Depot
- Equipment
- Training
- Other
- Field activities** +
- People** +

- Research facilities** +
- Gateways** +
- Authorities** +
- Logistics & services** +
- Field activities** +
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
- 2019
- People** +

- Habitations** +
- Research facilities** +
- Gateways** +
- Authorities** +
- Logistics & services** +
- Field activities** +
- People** +
- Member of isaaffik



- Habitations** +
- Research facilities** +
- Gateways** +
- Authorities** +
- Logistics & services** +
- Field activities** +
- People** +



KAP MORRIS JESUP-DMI AUTOMATIC WEATHER STATION

Organization **DMI**

Coordinates **65.6561, -33.3739**

[Weather forecast](#)

DMI automatic weather station 04301

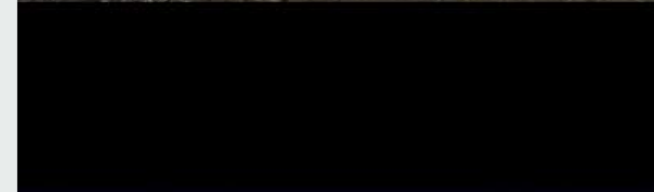
Elevation 3 m

DMIs standard Automatic weather station measures: Air Temperature, humidity, atmospheric pressure, windspeed and -direction every hour.

At selected weather stations (where 220V power and common communication is available) the stations typically measures some additional parameters.

A complete reference of which data is available from DMI weather stations in Greenland – can be found in the annual updated report [Weather observations from Greenland 1958-20xx: Observation data with description] at <http://www.dmi.dk/laer-om/generelt/dmi-publikationer/tekniske-rapporter/>

Last updated **9 March 2015**





DRONE- AND FUNCTIONAL ECOLOGICAL INVESTIGATIONS OF TUNDRA CHANGE

Organization [Arctic Research Centre](#)

External link [Arctic Science Partnership](#)

Coordinates **81.60867, -16.77338**

Starting	August 2016
Ending	August 2016
PI	Signe Normann
Location	Station Nord

Project discription: Drone- and functional ecological investigations of Tundra change

The overall aim of the field campaign is to provide insight on the structure and function of arctic tundra ecosystems. Specifically the field work aims at understanding the differential responses of shrub communities to climate change across space and time, and includes: (i) a dendro-ecological investigation of local shrub recruitment and growth pulses and their variation across environmental gradients, (ii) high resolution mapping of vegetation with drones, (iii) scaling of vegetation structure from plots to the landscape and region via imagery from drones, remote sensing and manned aircrafts, (iii) quantification of variation in species functional traits (especially specific leaf area, wood density, and vegetation heights) across climatic gradients.

Link to [ASP website](#)

Last updated **11 November 2015**



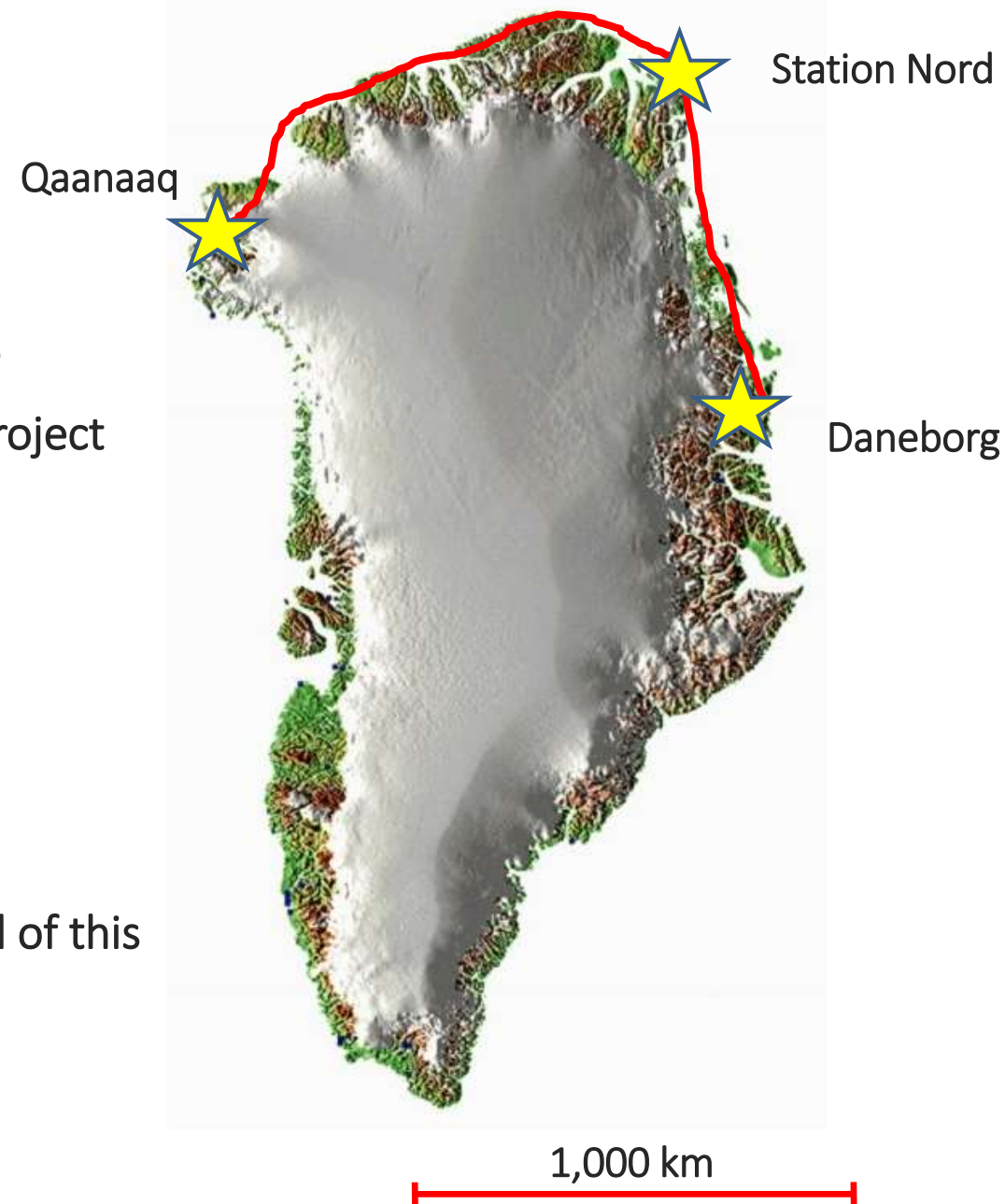
Does Isaaffik pay off?

Case story: Station Nord helicopter share project summer 2016

- Unrealistic for one smaller project to finance a helicopter project
- Project flying: ~ 20,000 USD
- Ferry flying (+ transport of fuel depots): ~ 80,000 USD
- Ferry expenses pr. project for 8 partners: ~ 10,000 USD

Logistics sharing advantages (creates a positive spiral):

- More projects to share ferry flying, - or even eliminate need of this
- More - and smaller - projects becomes economic realistic
- More and cheaper research for the money !



Is Isaaffik recognized?



At the White House Arctic Science Ministerial meeting in Washington, on 28 September, the Danish Minister for Higher Education and Science, Ulla Tørnæs, in her speech singled out the Isaaffik website as *“a tool for collaboration between Arctic Science researchers within the Kingdom of Denmark and internationally.”*

<http://ufm.dk/en/the-minister-and-the-ministry/the-minister/speeches/2016/collaboration-is-the-means-to-strengthen-arctic-science>



A few conclusions from the Isaaffik collaboration

- Get the right people around the same table to create, to coordinate - and become a team
- It's what happens between meetings that matters
- Each partner is responsible for own data and local processes
- If you want a shared overview, it starts with yourself offering your collaborators insight
- Rather “what can I do for the common benefit” than “what's in it for me”
- A website is just a tool – mutual trust and real commitment makes all the difference



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You're all invited to join us at:
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Thank you - Qujanaq - Takk - Tak
for your attention !