



INTAROS

# WP7 - Dissemination and outreach Update of the first 12 months of activity & plans for the future



The  
University  
Of  
Sheffield.



Donatella Zona, Ned Dwyer

# WP 7 – Work breakdown structure

**Task 7.0 Coordination of the Workpackage; Lead: USFD**

**Task 7.1 Plan and support dissemination activities; Lead: EurOcean**

**Task 7.2 Informing decision-makers in European agencies and businesses; Lead: EurOcean**

**Task 7.3 Informing Arctic and international bodies; Lead: EurOcean**

**Task 7.4 Interdisciplinary science dissemination; Lead: USFD**

**Task 7.5 Capacity building for early-career scientists; Lead: EurOcean**

**Task 7.6 Capacity building for high-school and general public; Lead: GINR**

**Task 7.7 Capacity building for local communities and civil society organizations; Lead: NORDECO**

***Underway***   ***Not yet started***

# WP 7 – Deliverables

**D7.1 Project Website;** Resp. Eurocean

**D7.2 Printed Materials;** Resp. Eurocean

**D7.3 Dissemination Plan;** Resp. NERSC

**D7.4 Dissemination material for use towards decision makers, stakeholders, business and general public;** Resp. NERSC

**D7.5 Dissemination Plan V2.0;** Resp. NERSC

**D7.6 OceanObs 2019 Contribution** Resp. EuroGOOS

**D7.7 Education material V1;** Resp. GINR

**D7.8 Dissemination material V2;** Resp. NERSC

***Completed/Underway***   ***Not yet started***

# WP 7 – Deliverables

**D7.9 Educational material V2; Resp. IGPAN,**

**D7.10 Special issue; Resp. USFD**

**D7.11 Scientific capacity building; Resp. EurOcean**

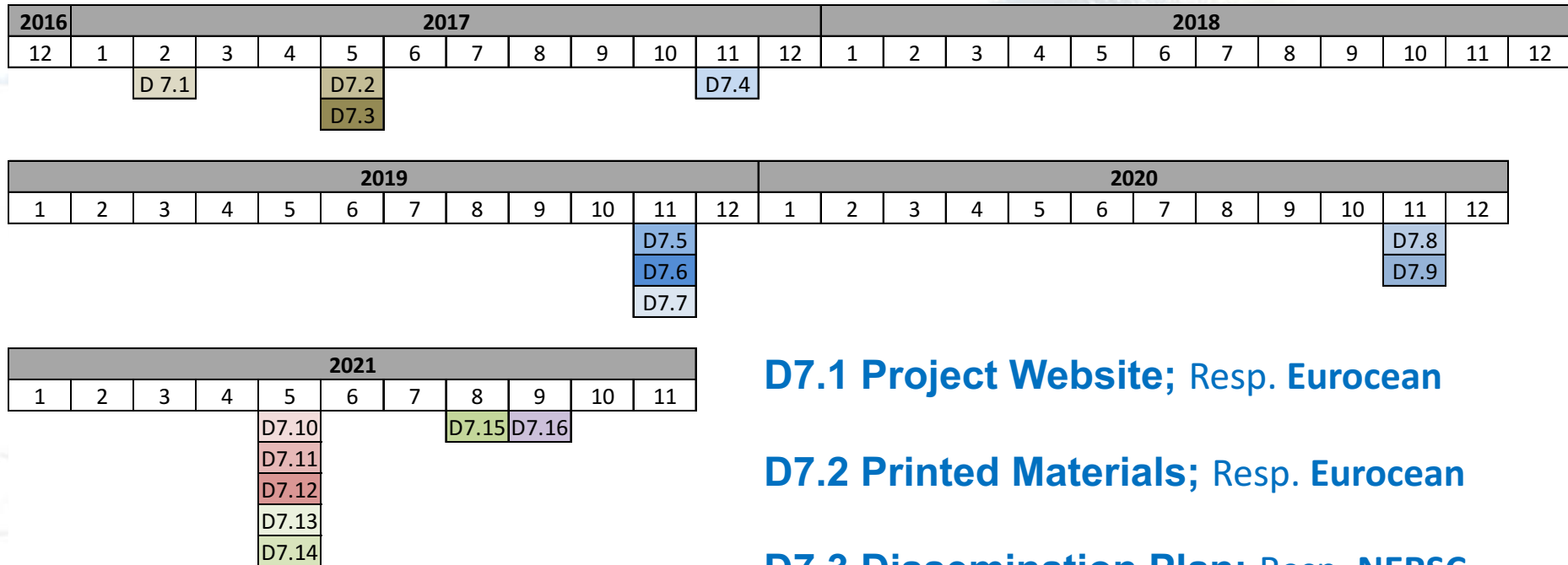
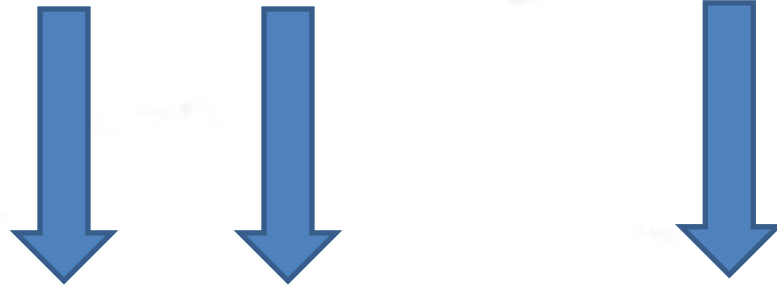
**D7.12 Educational packages for scientists; Resp. EurOcean**

**D7.13 Arctic in a class room; Resp. USFD**

**D7.14 Proceedings of CBO workshop ; Resp. Nordeco**

**D7.15 Final summary for policy makers; Resp. EurOcean**

**D7.16 Final project event in Brussels; Resp. NERSC**



**D7.1 Project Website; Resp. Eurocean**

**D7.2 Printed Materials; Resp. Eurocean**

**D7.3 Dissemination Plan; Resp. NERSC**

**D7.4 Dissemination material for use towards decision makers, stakeholders, business & general public; Resp. NERSC**

# Timeline

# **Activities during the first year (Dec 2016-Dec 2017)**



# Communication to Public



1,000 high quality **brochures**

EurOcean has a small number left

# Communication to Public

## INTAROS brochure triptych

**Type of outreach:** Brochures/material

**Outreach file:**  **INTAROS brochure triptych**

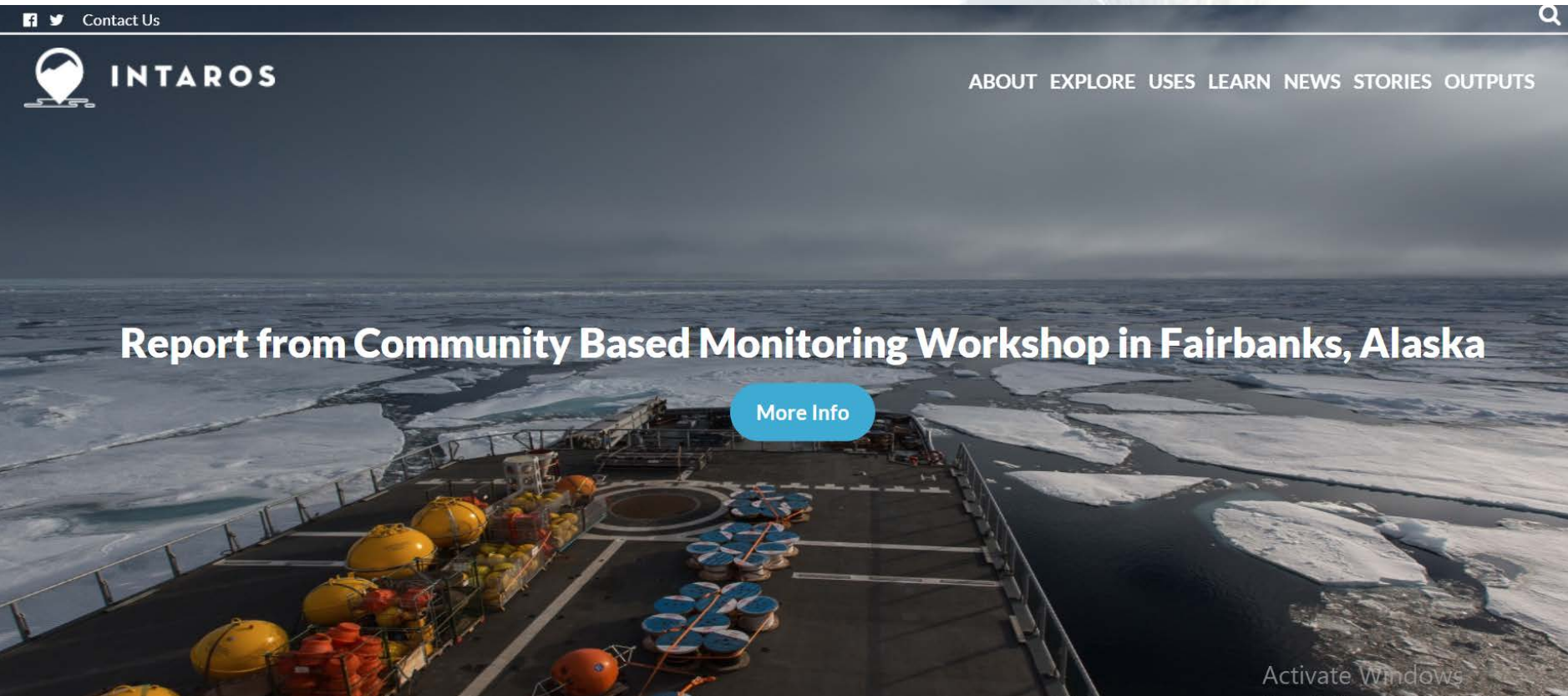


**Pdf brochure** on partners area of website

Download and print.



# Public Website



# Public Website – News Area

## Recent News



17 news items so far

We need more from you!

# Public Website – Stories Area

## Stories



### Monitoring the Arctic atmosphere, where food is delivered only once a year

*17/11/2017 Martijn Pallandt, Max-Planck-Institute for Biogeochemistry*

Travelling to the location of a former Gulag in northeast Siberia during the summer of 2017, Martijn describes the challenges of carrying out field work in such a remote but breathtaking environment and also explains why continuous atmospheric monitoring of the tundra environment is vital.



### Former friends now seen as enemies in Svalbard

*14/08/2017 Lisbeth Iversen, NERSC*

In Svalbard the mountains, the former friends and protectors of the community, have become the "enemy". Lisbeth Iversen (NERSC), representing the INTAROS project and students from Amalie Skram High School in Bergen, Norway, as part of the Regimes project, tell us about the first day of their field trip meeting community members in Svalbard.



### Resourcefulness and resilience in the Arctic tundra

*26/04/2017, Scott Davidson, Sheffield University*

Scott Davidson, from the University of Sheffield realises his childhood dream of going to the Arctic. In this piece Scott tells us of the ups and downs of doing fieldwork on vegetation methane emissions in the Alaskan Arctic tundra, where he spent four months in 2014.



### INTAROS contributes to International Arctic Assembly

*14/05/2017 EurOcean*

Dr. scient. Finn Danielsen from NORDECO - an INTAROS partner - took part in a panel discussion focused on Knowledge Co-Production and Co-Management during the International Arctic Assembly which took place in Alaska during May 2017



### Local knowledge supports decision-makers in managing living resources

*25/04/2017 Michael K. Poulsen, NORDECO*

The PISUNA programme is a great example of how local people's knowledge of the environment can be included in decision making

5 stories so far

We need more from you!





# Public Website – Open Deliverables



# Website Usage

Since July 2017



1,317 unique users



Top 5 pages

- Members
- Objectives
- Events
- News
- Stories



2,000 sessions  
(- EurOcean)

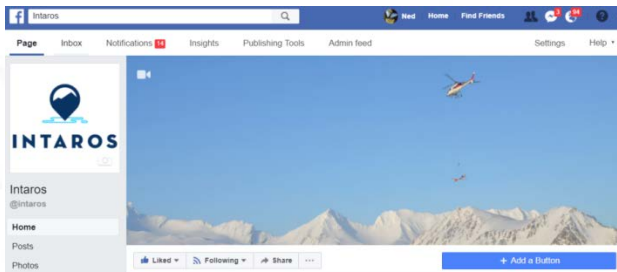


Top 3 Countries

- Germany
- USA
- Canada

**make sure your institutional site links to INTAROS**

# Social Media



- Very low usage so far
- Please share and retweet content
- We could set up a core group of partners who are strong facebook/twitter users as administrators with posting privileges to stimulate usage



# Impacting Policy

## INTAROS is a partner in the Arctic Cluster

### THE EU ARCTIC CLUSTER



The objective of INTAROS is to develop an integrated Arctic Observation System by extending, improving and unifying existing systems in the different regions of the Arctic. INTAROS has a strong multidisciplinary focus, with tools for integration of data from atmosphere, ocean, cryosphere and terrestrial sciences.

[www.intaros.eu](http://www.intaros.eu)



The objective of APPLICATE is to develop enhanced predictive capacity for weather and climate in the Arctic and beyond, and to determine the influence of Arctic climate change on Northern Hemisphere mid-latitudes, for the benefit of policy makers, businesses and society.

[www.applycate.eu](http://www.applycate.eu)



Blue-Action seeks to understand the linkages between the Arctic and the global climate systems to improve weather and climate modelling and prediction, to improve forecasting of hazardous conditions and climate extremes, and to co-design targeted climate services with relevant stakeholders.

[www.blue-action.eu](http://www.blue-action.eu)

### NUNATARYUK

NUNATARYUK will develop quantitative understanding of the fluxes and fates of organic matter released from thawing coastal and subsea permafrost; assess risks posed by thawing coastal permafrost, to infrastructure, indigenous and local communities and peoples health; use this understanding to estimate the long-term impacts of permafrost thaw on global climate and the economy.

### ARICE

*Arctic Research Icebreaker Consortium*

An international cooperation strategy aiming at improving Europe's Arctic capacities by better coordinating the existing polar research fleet, by offering transnational access to a set of international High Arctic research icebreakers and by collaborating with maritime industry in a "programme of ships and platforms of opportunity".

[www.eu-arcticcluster.eu](http://www.eu-arcticcluster.eu)

### THE EU ARCTIC CLUSTER



A polar research consortium with the ambition to co-design a strategic framework to prioritise science, advice the European Commission on polar issues, optimise the use of polar infrastructure, and broker international partnerships.

[www.eu-polar.net](http://www.eu-polar.net)



INTERACT is a circumarctic network of 82 terrestrial field bases in all Arctic countries and adjacent high alpine and forested areas. INTERACT is building capacity for identifying, understanding, predicting and responding to diverse environmental changes throughout the environmental and land-use envelopes of the Arctic.

[www.eu-interact.org](http://www.eu-interact.org)



*Ice, Climate, Economics - Arctic Research on Change*

ICE-ARC is a FP7 project that brings together experts in the fields of economics, natural and social sciences, and technology in order to directly assess the environmental, social and economic impact of Arctic sea ice loss. These trans-disciplinary programmes are essential if we are to continue to strengthen the links between science and society.

[www.ice-arc.eu](http://www.ice-arc.eu)



**AFFILIATED PARTNER**

The European Polar Board (EPB) is an independent organisation that focuses on major European strategic priorities in both the Arctic and the Antarctic regions. Its members include European research institutes, funding agencies, scientific academies and polar operators.

[www.europeanpolarboard.org](http://www.europeanpolarboard.org)



[www.eu-arcticcluster.eu](http://www.eu-arcticcluster.eu)



### THE EU ARCTIC CLUSTER

## PROVIDING ANSWERS FOR A CHANGING ARCTIC



[www.eu-arcticcluster.eu](http://www.eu-arcticcluster.eu)

# Impacting Policy- Arctic Cluster



- Brochure



- Web page:  
<http://www.eu-polarnet.eu/eu-arctic-cluster/>



- Side-Event COP 23



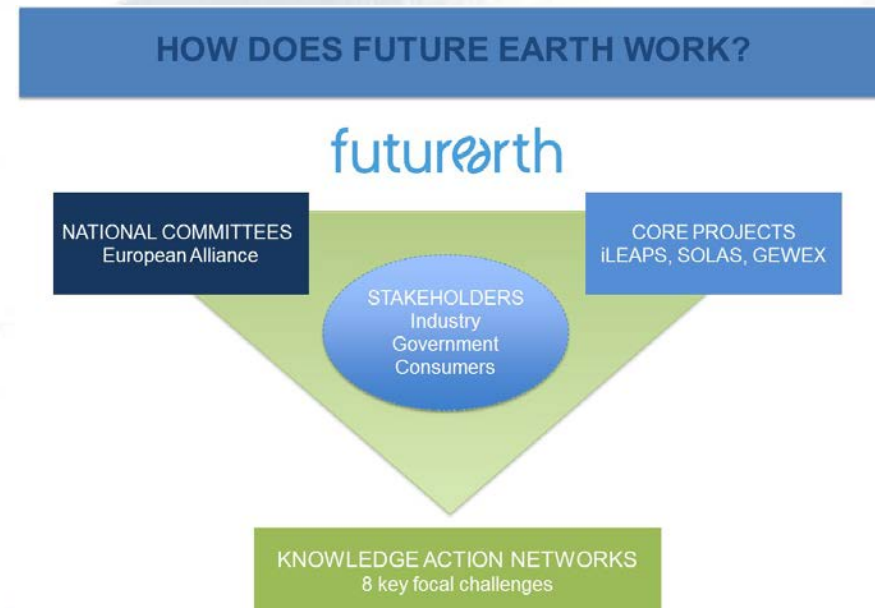
# Impacting Policy- Arctic Cluster

Booth – Arctic Circle 2017



# Impacting Policy- Strengthening connections

- Developing strong links with Future Earth Finland
- Dissemination via **Future Earth** European Alliance, **PEEX** Program
- Organization of **Europe – Russia – China** workshop to support the EU strategy for better informed decision making in the Arctic



# Communication to Scientific Community

Project Acronym: INTAROS | Current Month: M13 | Next Report: Interim Report (M13 - M18) | 184 Day(s) remain

myEMDESK | DoA version 5 | Implementation

EMDESK®

Controlling | Reporting | Finances | Help | Version / Export

## Disseminations

+ Add Dissemination

**Patents** +  
0 entries

**Exploitable Foreground** +  
0 entries

**Disseminations** -  
102 entries

+ Add Disseminations

**DIS1** +  
Marine Ecosystem Monitoring in Greenland

**DIS2** +  
A fjord-glacier coupled system model (Geophysical Research Abstracts Vol. 19, EGU2017-15896, 2017)

**DIS3** +  
EurOcean Booth at EMD

**DIS4** +  
The role of light-nutrient coupling in Arctic phytoplankton phenology

**DIS5** +  
Gutes CO2 – schlechtes CO2: Mensch.Macht.Klimawandel

**DIS6** +

## Foreground/Dissemination

Progress | Resources | Costs | Deliverables | Milestones | Risks | **Dissemination** | Publications | Cooperation

Owner: All | Status: All | Sort by: Nothing

**Marine Ecosystem Monitoring in Greenland**  
Date: 2017-04-24 | Status: Validated | Owner: AU

**A fjord-glacier coupled system model (Geophysical Research Abstracts Vol. 19, EGU2017-15896, 2017)**  
Date: 2017-04-24 | Status: Validated | Owner: UPM

**EurOcean Booth at EMD**  
Date: 2017-05-18 | Status: Submitted | Owner: EUROCEAN

**The role of light-nutrient coupling in Arctic phytoplankton phenology**  
Date: 2017-05-12 | Status: Validated | Owner: CNRS

**Gutes CO2 – schlechtes CO2: Mensch.Macht.Klimawandel**  
Date: 2017-03-29 | Status: Validated | Owner: MPG

**Interdisciplinary approaches to gain new insights into Arctic carbon cycle processes**

102  
presentations  
so far

**PLEASE  
REMEMBER TO  
ACKNOWLEDGE  
INTAROS IN  
YOUR  
PRESENTATION**



# Communication to Scientific Community

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## Publications

Progress | Resources | Costs | Deliverables | Milestones | Risks | Dissemination | **Publications** | Cooperation

Filter by: [ ] Sort by: Id ascending Search publication ...

Publication ID	Title	Date of publication	Author(s)	Status
PUB 1	A synthesis of the arctic terrestrial and marine carbon cycles under pressure from a dwindling cryosphere	23.01.2017	Parmentier, Christensen, Rysgaard, Bendtsen, Glud, Else, van Huissteden, Sachs, Vonk, Sejr	Unfinalise
PUB 2	Biodiversity redistribution under climate change: impacts on ecosystems and human well-being	31.03.2017	Pecl, G., ... Danielsen, F. et al.	Unfinalise
PUB 3	Weaving knowledge systems in IPBES, CBD and beyond - lessons learned for sustainability	31.05.2017	Tengö, M. ... Danielsen, F. et al.	Unfinalise
PUB 4	Biogeochemistry: Long-term effects of permafrost thaw	28.09.2016	Donatella Zona	Unfinalise
PUB 5	Flexsem: a new method for offline ocean modelling	01.11.2017	Larsen, J., Maar, M., Brüning, T., She, J., Mohn, C	Finalise
PUB 6	Managing consequences of climate-driven species redistribution requires integration of ecology, conservation and social science	01.06.2017	Bonebrake, T., Brown, C.J., Bell, J.D., Blanchard, J.L., ... Danielsen, F., Dell, A.I. et al.	Finalise

16 publications so far

**PLEASE  
REMEMBER TO  
ACKNOWLEDGE  
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**“This project has received funding from the European Union’s Horizon 2020 research and innovation program under grant agreement No. 727890.”**



# Capacity Building- *Local Communities*

- International Arctic Assembly, Fairbanks, Alaska meeting 9-11 May 2017  
Discussion on indigenous, local and scientific knowledge for decision-making (c. 600 participants).
- Experience exchange workshop on community-based observing for improved decision-making (55 participants, 10 community-based observing programs in N America, w/Yukon Tribal Council, ELOKA, UAF)
- Dialogue with Senior Arctic Observers and AC working groups on community-based observing
- Mini-workshop on plans for community-based observing of INTAROS in Greenland in December 2016 in Nuuk, Greenland
- Experience exchange workshop on CBM in Quebec, Canada, Dec. 2017

# Fairbanks Workshop

Led by Yukon River Inter-Tribal Watershed Council consisting of 73 Canadian First Nations and Alaska Native Tribes



May 2017 – ELOKA, UAF, Nordeco

# Fairbanks Workshop

## Need increase communication between scientists and local communities

- Engage with community before designing experiments
- Increase trust in data collected by community
- get Indigenous youth involved in science
- Scientists working in communities need to be educated about local culture.

### INTAROS Community-Based Monitoring Experience Exchange Workshop Report

FAIRBANKS,  
ALASKA

MAY 10,  
2017





# Arctic Russian Workshops

Two workshops in Izhma  
(Komi) and Zhigansk (Yakutia),  
September 2017

Led by Russian Centre for  
Support of Indigenous People  
in the North and Nordeco



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# Capacity Building- *early career scientists*

- **Hyytiälä Autumn/Winter Schools (October / March)**
  - PhD/MSc students- atmospheric/biospheric sciences
  - based on intensive work in small groups, with MATLAB as main tool for statistical analysis.
  - Comparison of long time series and intensive field campaign data from Hyytiälä forest site and Siikaneva peatland site.
  - Focus on transferable skills

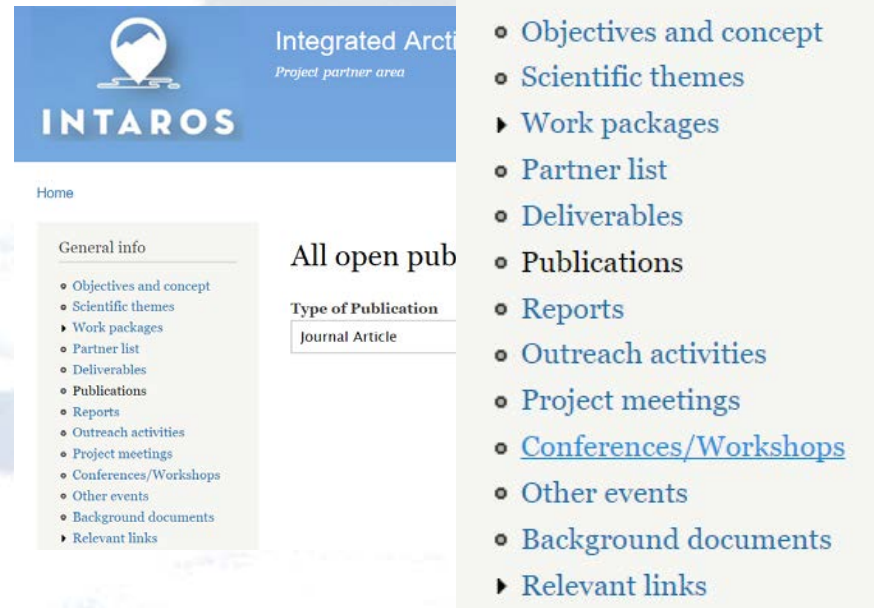
# Plans for 2<sup>nd</sup> year (Dec 2017-Dec 2018)



# T 7.1 – Plan/Support Dissemination Activities

- Continue Population of public webpage and social media  
We need your content, help and ideas

Post materials on  
partners website



- Notebooks/pencils/Cowls will be shortly available

# T 7.2/7.3 – Informing Decision Makers & International Bodies

- 1<sup>st</sup> eNewsletter in production
  - Subscribe to mailing list & encourage others
- Inputs to 2<sup>nd</sup> Arctic Science Ministerial
- Engage with Arctic Portal Website
- Active participation in Arctic Cluster
- Support stakeholder engagement activities
- Further discussion in WP7 workshop

# **T 7.4 – Science Dissemination**

**Task 7.4 Interdisciplinary science dissemination; Lead: USFD-(no specific deliverables except for the Special issue later in the project -D. 7.10 in 2021-but on going activities)**

- 1. Organization of AGU special session 2018**
- 2. Short term scientific missions**
- 3. Any other scientific session organization?**

**(USFD, University Exeter)**

# AGU. FALL MEETING

## Future Meetings

### 2018 Fall Meeting

10-14 December 2018

Washington, D. C.

Session proposal submission  
on the gaps in knowledge on  
wetlands CH<sub>4</sub> fluxes



16-20 September 2019  
Honolulu Convention Center,  
Honolulu, HI, USA



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# Short-term Scientific Exchanges

## Enhance Networking and Improve Skills

- Can support field work, data collection, analysis, exchange of knowledge
- Flexible periods : 2 to 6 weeks or more, travel of student to AGU meeting?
- Partners need to identify complementary funding sources (e.g. COST actions, MSC: RISE, national funding schemes....)
- WP7 can help with info on EU programmes, materials, announcements of offers, publicity, news of exchanges, outcomes, etc.

What is the best way to implement this activity?

What are partners plans?

What funding sources are available?



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# Enhance Networking and Improve Skills

- Meeting with high schools contacts in Nuuk in the coming months, and coordinate with other efforts **(GINR)**
- Educational packages by September 2020, disseminated via webinars and workshops, planned to be conducted by the end of November 2020 **(IGPAN)**
- Follow-up meeting on CBM in Russia 2018; Disko Bay Greenland 2018 **(CSIPN and NORDECO)**





# Better communication between scientists and local communities

-SUMMARY OF INTAROS RESULTS to be presented to the local communities? Engaging local communities before and during the science implementation?



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# Discussion

- Update us on relevant events, conference attendance and of any relevant conference (presenting or organizing a session)
- Pictures of your site/research instruments
- Student travel support-short term missions & conference attendance
- Knowledge transfer to local community-summary of scientific results





Thanks for your  
attention