

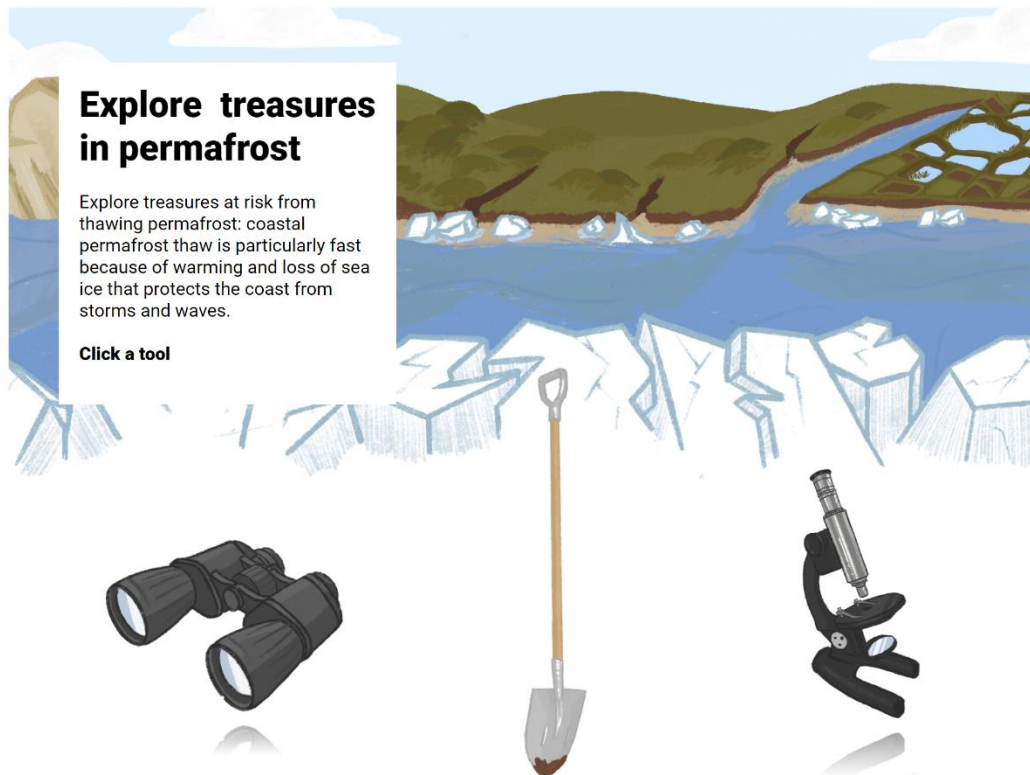
## WP 7 – Preparing for a future world: improving education and awareness at all societal levels

### Get Active!

#### Explore treasures in permafrost

Explore treasures at risk from thawing permafrost: coastal permafrost thaw is particularly fast because of warming and loss of sea ice that protects the coast from storms and waves.

Click a tool



Terry V. Callaghan CMG, *Sheffield University*  
Agata Goździk, *Institute of Geophysics PAS*  
Simon Wilson, *AMAP Secretariat*



## Aim of WP

*The main objectives are:*

- 1) to develop and deliver educational resources at school and university level in response to needs identified by teachers across the world (PAS)*
- 2) to increase awareness of the general public (including influential people) to Arctic environmental change and its global implications (BBC, USFD)*
- 3) to establish a new generation of researchers capable of making high level assessments of environmental change in the Arctic and its global implications (AMAP).*

## Task 7.1

*Increased public awareness of Arctic environmental change and its global implications (Lead: USFD, sub-contract to BBC)*

Finally, sub-contract between Sheffield University and BBC Natural History Unit has been agreed and will be signed the coming days



## Task 7.1

*Increased public awareness of Arctic environmental change and its global implications (Lead: USFD, sub-contract to BBC)*

Four movies focussing on:

- A disappearing home
- The cost of Arctic tourism
- Extreme causes for concern
- Arctic amplification





## Task 7.1

*Increased public awareness of Arctic environmental change and its global implications (Lead: USFD, sub-contract to BBC)*

Footage has been collected autumn 2021 for the film “A disappearing home”



## Task 7.1

### *Increased public awareness of Arctic environmental change and its global implications (Lead: USFD, sub-contract to BBC)*

Influential People as well as researchers have been made aware of environmental change: government ministers, Chair of the Arctic Council etc.



Siberian Environmental Change | [Published: 29 September 2021](#)

#### Preface

[Nikolay Korchunov](#) ✉

It is my privilege to lead the Arctic Council during the Russian Chairmanship of the Council. As Russia has the largest landmass in the Arctic, I welcome this important and timely Special Issue as a contribution to the global discussion on adaptation to and mitigations of climate change.

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Nikolay Korchunov

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Correspondence to [Nikolay Korchunov](#).

14 papers, 93 authors, Preface, Global distribution

## Task 7.3

### *Producing Educational Resources (USFD, TSU)*

**INTERACTIVE** e-book  
International Network for Terrestrial Research and Monitoring in Arctic

**Stories of Arctic Science II**

1 SECTION  
Different ways of knowing

2 SECTION  
Human impacts on Arctic environments

3 SECTION  
Ecosystem services

4 SECTION  
Minimising surprises for society

5 SECTION  
Impacts on local societies

6 SECTION  
Impacts on global societies

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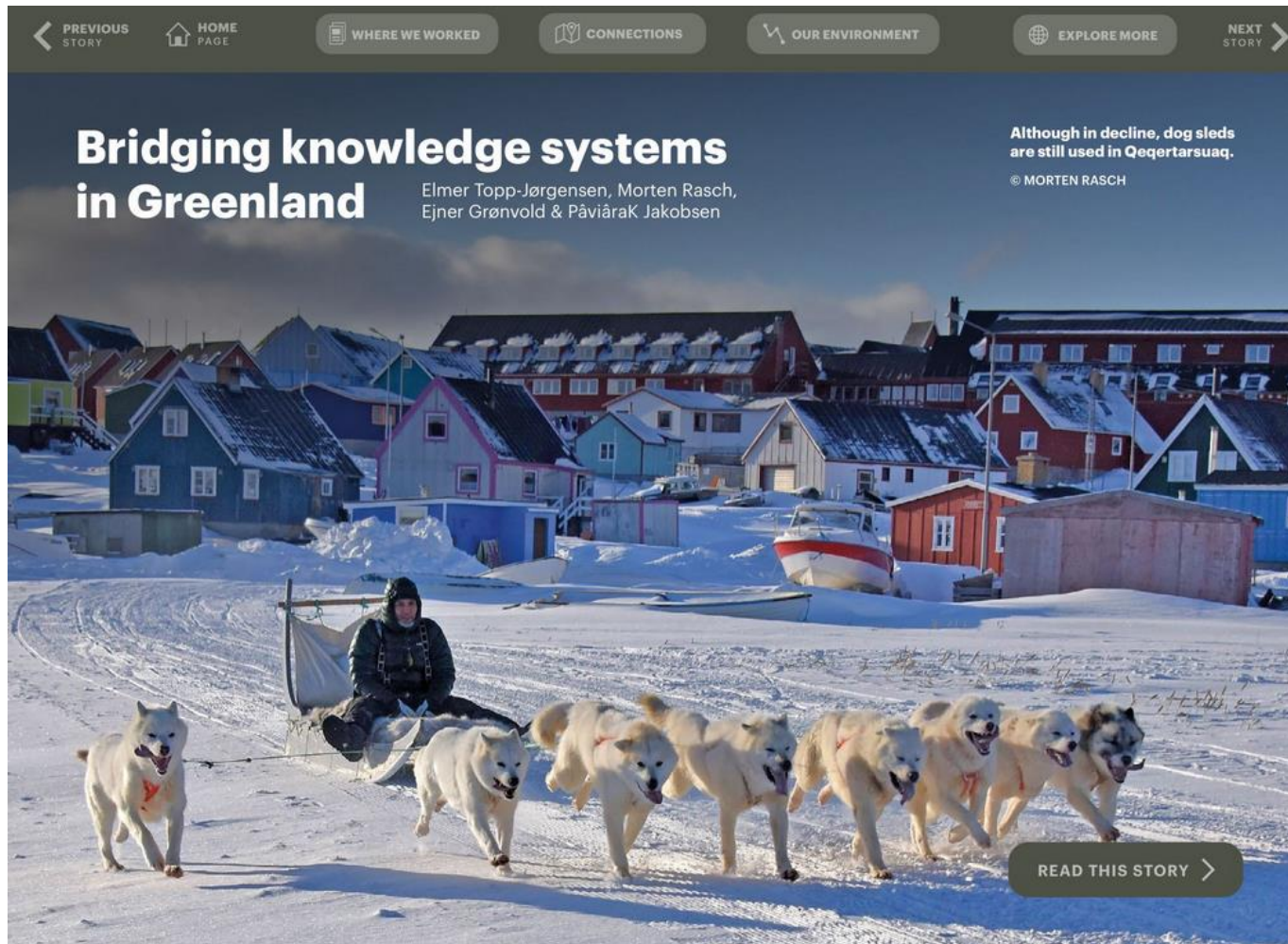
Soon

interactsciencestories.org



## Task 7.3

### *Producing Educational Resources (USFD, TSU)*





## Task 7.3

### Producing Educational Resources (USFD, TSU)

The screenshot shows a web page with a navigation bar at the top containing links: PREVIOUS STORY, HOME PAGE, WHERE WE WORKED, CONNECTIONS, OUR ENVIRONMENT, EXPLORE MORE, and NEXT STORY. The main content area features a large background image of a snowy village with a person sledging pulled by a team of white dogs. A blue sidebar on the left provides details about the 'GREENLAND Arctic Station'.

**GREENLAND Arctic Station**

Opening year	1906
Northern latitude	69°15'N
Altitude of station	20 m a.s.l.
Distance to settlement	1 km
Annual temperature	-3.2 °C
Annual precipitation	436 mm
Max number of visitors	26
Area under roof	955 m <sup>2</sup>
Disciplines studied	25/25

**Systems**

ansen, Morten Rasch,  
Päviärak Jakobsen

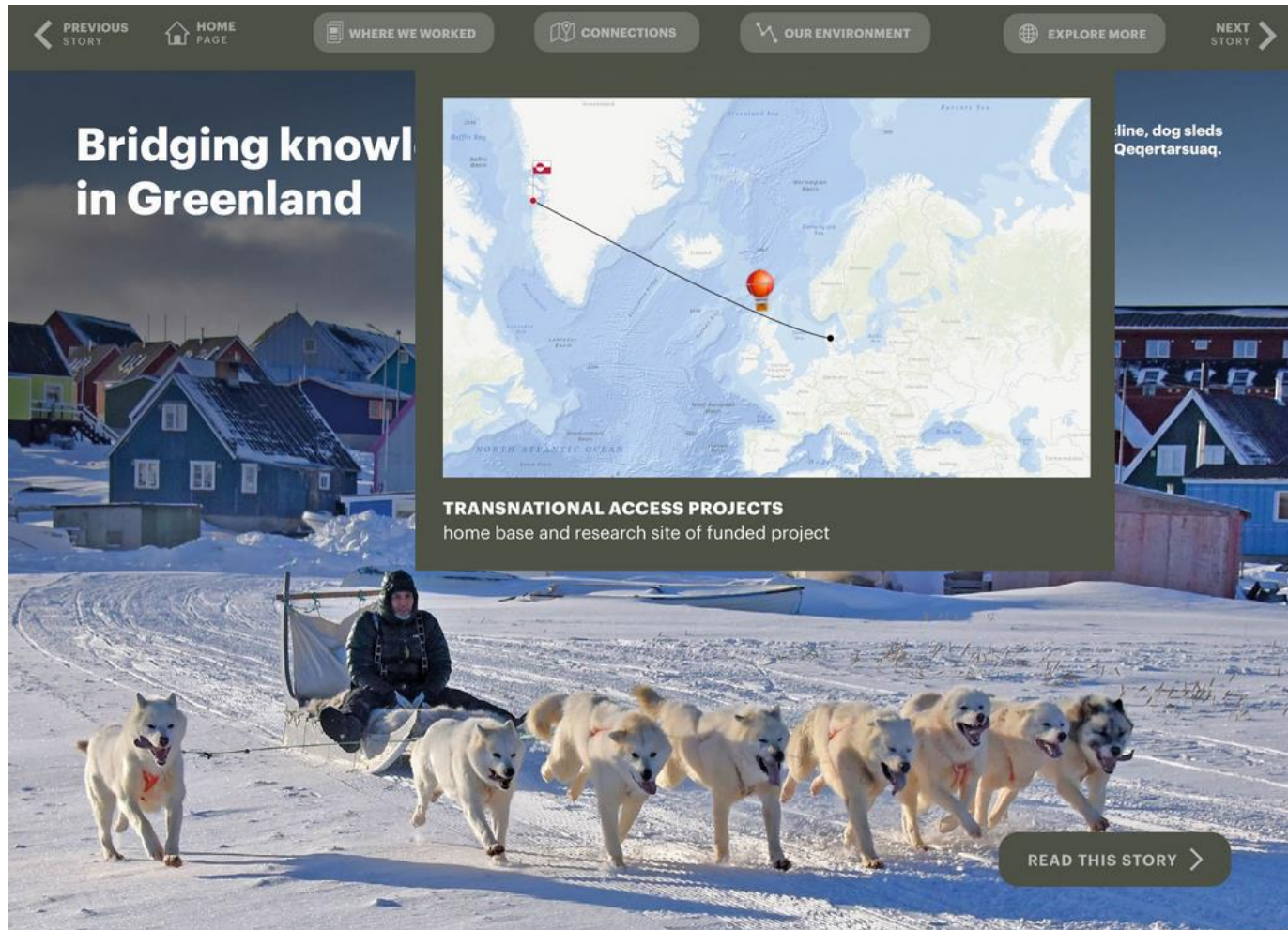
Although in decline, dog sleds are still used in Qeqertarsuaq.

© MORTEN RASCH

[READ THIS STORY >](#)

## Task 7.3

### *Producing Educational Resources (USFD, TSU)*






## Task 7.3

### Producing Educational Resources (USFD, TSU)

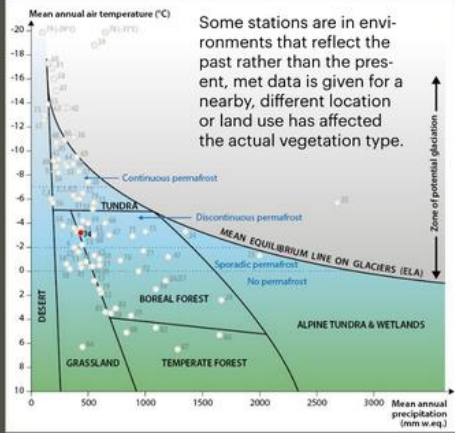
[PREVIOUS STORY](#) [HOME PAGE](#) [WHERE WE WORKED](#) [CONNECTIONS](#) [OUR ENVIRONMENT](#) [EXPLORE MORE](#) [NEXT STORY](#)

# Bridging knowledge systems in Greenland

Elmer Topp-Jørgensen, Morten Rasch, Ejner Grønvold & PaviāraK Jakobsen



Mean annual air temperature (°C)



Some stations are in environments that reflect the past rather than the present, met data is given for a nearby, different location or land use has affected the actual vegetation type.

Zone of potential glaciation

MEAN EQUILIBRIUM LINE ON GLACIERS (ELA)

Continuous permafrost

Discontinuous permafrost

Sporadic permafrost

No permafrost

DESSERT

GRASSLAND

TEMPERATE FOREST

BOREAL FOREST

TUNDRA

ALPINE TUNDRA & WETLANDS

Mean annual precipitation (mm w.eq.)

#### ENVIRONMENTAL ENVELOPE

Location of INTERACT station in 'environmental space'

[READ THIS STORY >](#)



## Task 7.3

### Producing Educational Resources (USFD, TSU)

PREVIOUS STORY

HOME PAGE

WHERE WE WORKED

CONNECTIONS


OUR ENVIRONMENT


EXPLORE MORE

NEXT STORY

# Bridging knowledge systems in Greenland

Elmer Topp-Jørgensen, Morten Ejner Grønvold & PáviáraK





INTER = ACT

WICKED WEATHER WATCH

**Inuit Word Search:**  
How many Inuit words can you find?

Find the words in the box below in the word search.

Y	J	W	O	N	M	G	O	J	X	L	T	E	U	K
Z	Q	J	O	Q	D	H	Z	J	A	Z	V	T	D	A
Z	K	Z	N	G	M	F	U	D	H	W	Z	U	J	Y
Q	A	U	S	R	A	T	R	E	Q	E	Q	M	K	A
F	G	K	F	I	O	E	G	F	E	K	J	A	W	K
S	U	N	G	W	Q	K	S	F	W	B	T	L	Y	D
N	Z	L	X	M	T	Y	Q	I	F	A	Z	A	E	F
J	O	K	R	T	I	U	N	I	N	P	Y	M	V	Y
O	G	N	P	N	D	M	T	U	A	N	O	R	A	K
E	D	S	L	E	K	E	N	I	N	T	R	Q	N	P
O	S	U	V	Y	J	L	C	O	T	J	C	G	Z	W
P	B	K	T	Z	B	N	C	A	C	K	D	N	B	F
O	G	L	I	Q	L	E	E	F	S	R	U	W	N	V
L	L	L	M	M	L	U	U	N	G	V	J	N	Z	U
V	Z	P	X	V	O	B	I	T	K	K	U	I	V	

# Task 7.4

## Online lessons for secondary schools

(Lead: IGF-PAS)

November 2021

TODAY < >

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
	9a SUSTAINABLE CITIZENSHIP, WHAT'S IN IT	8a Śnieg w ekosystemie Arktyki 10a Caves and humans	9a SNOW CHICKENS – WILL THE CAMOUFLAGE	7a Plants adaptations to the Arctic climate		
8	9	10	11	12	13	14
8a North American Arctic	8a Arktyka północnoamerykańska	9a Why is permafrost dangerous for Earth's 11a Fitoplankton w Arktyce				
15	16	17	18	19	20	21
8a The life of glaciers 10a Prądy oceaniczne a klimat	9a WIND TURBINES, WHEN GOOD BECOMES BAD	8a Życie lodowców 11a Gleby w Arktyce	9a ANIMAL ADAPTATIONS TO ARCTIC LIFE 11a Islandia	10a Iceland		
22	23	24	25	26	27	28
8a Opowieści o lodzie morskim 10a Postglacial relief of northern Eurasia	9a PHOTO-SHOOTING WILDLIFE!	11a Written in the Arctic: paleoclimatology	8a Postglacialna rzeźba północnej Eurazji 10a Stories of sea ice	10a Caves and humans		
29	30	1	2	3	4	5
8a The life of glaciers 10a Zooplankton in the Arctic	11a Air pollution in polar regions	8a Życie lodowców 2p Ocean currents and climate	10a Procesy hydrologiczne w Arktyce 12p Arctic hydrology	7a Comparison of Arctic and Antarctic fauna		

EDU-ARCTIC: ENGAGING STUDENTS IN STEM  
EDUCATION THROUGH ARCTIC RESEARCH

INTER⇌ACT





## Task 7.5

### *Task 7.5 Ensuring a new generation of international environmental assessors*

(Lead: AMAP-SEC)

Dialogue with early career scientists on how to get involved in environmental assessments which concluded in some suggested ways forward:

- Secondments to visit AMAP Secretariat to learn more about the science-policy interface
- Inviting early career scientists to kick-off meeting for a new assessment of local vs long-range transport of contaminants (related to INTERACT WP8)

How to identify early career researchers connected to INTERACT?

- TA Users could be a potential pool of expertise to recruit from.



## Requirements from others

- Online lessons starting from February 2022 – we are very much looking for your contribution (all technical and promotional aspects, registration of school to be done by IG PAS)
- Relevant film footage for the BBC films



## Ways forward

- Newsletter to teachers (2000+ teachers from 60 countries) – on INTERACTIVE book
- Exploring more resources for secondary schools to include in a future up-date of the INTERACTIVE book



*Hanging valley animation. Top secondary school resource – 36,000 views*

Thanks for your attention

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