

Integrating Activities for Advanced Communities



D3.5 - Report on TA and Scientific Publications

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Publishable Executive Summary

INTERACT has undertaken a study on the Transnational Access supported throughout three funding periods of INTERACT (INTERACT I, 2011-2015; INTERACT II, 2016-2021; INTERACT III, 2020-2024), aiming to provide an insight on the science supported by INTERACT in terms of research topics, achievements, and research priorities over time. The analysis allows INTERACT, and the European Commission as a funding body, to understand the impacts of the research generated by the INTERACT TA/RA Programme, and how research supported by INTERACT has contributed to major initiatives such as the ICARP III process (International Conference on Arctic Research Planning). The study relied on content analysis as research methodology and employed NASA Earth Science GCMD Keywords as a standard vocabulary to categorise the research topics of the supported projects. For statistical purposes, research projects were also assigned with the country of data collection (in-person or remote access visit), discipline according to EU classification, funding call year from 2020 to 2023, and the stations visited. This deliverable focuses on the scientific outcomes and publications from INTERACT III and also includes a summary on the evolution of research priorities and topics of projects supported by INTERACT TA/RA over the three funding periods. A full research paper on the results of the study is planned for publication in 2025, and the results will be presented at the Arctic Science Summit Week (ASSW 2025) in Boulder, Colorado, in March 2025.

In total 70% of 122 analysed research projects were funded in the TA Calls open in 2021 and 2022, with Earth sciences and environment projects dominating at 88%, followed by Life Sciences and Biotechnology at 11%. Humanities and Social Sciences projects were not funded. Greenland (21%) and Finland (14%) were primary locations for INTERACT III research, with significant activities in Svalbard, Canada, and multiple countries jointly. A smaller amount of data collection occurred in Alaska, Austria, Iceland, Norway, and Russia, while no research took place in the Faroe Islands, Poland, or Scotland (please note project reports from last INTERACT III TA/RA call in 2023 are not included). Research focused on climate indicators, biosphere, Arctic and mid-latitude dynamics, and various environmental interactions. Overall, 65% of research projects contributed to ICARP III Research Priority 3 “Understanding the vulnerability and resilience of Arctic environments, focusing on biodiversity and its changes”. A notable 76% of projects addressed the ICARP III research priority 2 “Observing and predicting future climate dynamics and ecosystem responses” with substantial contributions to climate indicators and biosphere-related studies, particularly air(atmosphere)-sea(ocean)-terrestrial-ice interactions (61% of projects) and water, ice, glaciers, snow, permafrost research (46% of projects). Additionally, 24% of projects developed observing systems and long-term monitoring, with 21% on technology and engineering. 64% of research projects aligned with the ICARP III research priority 1 “The role of the Arctic in the global system” contributing to studies

on Arctic and mid-latitudes, Arctic and Alpine research, Arctic and the Anthropocene, and to research on human dimensions. These projects collectively advanced the understanding of the Arctic environment and its global implications.

The information about publications supported by INTERACT III Transnational Access was asked from TA user groups annually, at the end of the year and in the end of each reporting period. In total 88 publications of different types were reported by the TA user groups in INTERACT III in the period 2020-2024. The research groups supported by Transnational Access have produced publications over a range of disciplines in several scientific journals, including well-renowned scientific journals such as Nature Communications. Furthermore, 73 additional publications resulted from INTERACT II Transnational Access which had not been published by the time of INTERACT II final report in 2021. Several papers were reported to be in preparation for submission to scientific journals in December 2024, ensuring the legacy of INTERACT III. Nonetheless, while publication of outreach materials and activities such as proceedings and abstracts in scientific meetings have increased in INTERACT III, a substantial difference in the number of articles published in scientific journals can be noted in INTERACT III compared to previous funding periods. This is most likely due to the limitations in Transnational Access in 2020-2022 due to the global COVID-19 pandemic that severely impacted the amount and timeline of the fieldwork conducted and -consequently- the publication of papers resulting from TA in scientific journals. The termination of Transnational Access to Russian stations since 2022 may have impacted the type of research performed and, as a consequence, the topics of scientific publications resulting from Transnational Access, but did not reduce the amount of TA projects granted access in 2022-2024.

INTERACT non-profit association, as the legal entity of INTERACT, is committed to ensure the legacy of INTERACT I-III and continues to gather information on publications resulting from INTERACT Transnational Access. During the 3rd Reporting Period, INTERACT TA Coordination explored different ways to improve the tracking of publications, which has proved to be a challenging task for several infrastructure consortia. Following a survey to INTERACT TA users and consultation with another EU-funded RI project POLARIN, INTERACT TA Coordination has created an INTERACT Zenodo Community which allows TA users to report publications in Zenodo and link them with the INTERACT grants. Other platforms dedicated to sharing research and publications such as ORCID and Publish and Perish will also be employed for tracking the publications resulting from INTERACT Transnational Access. On a more general level, INTERACT recommends the EU Commission to explore collaboration with research platforms such as ORCID for more integration in the tracking of publications, allowing straightforward collection and reporting of publications and more visibility to the research outputs of the TA Users.

1. Science supported by Transnational Access in INTERACT III

1.1. Aims, materials and methodology

The study aimed to determine how the research objectives of projects funded by INTERACT III aligned with the research topics and overall priorities of the ICARP III process: 1 “Role of the Arctic in the global system”; 2 “Prediction of future climate dynamics and ecosystem responses”; 3 “Improved understanding of the vulnerability and resilience of Arctic environments and societies”. The analysis helped to understand the contribution of INTERACT III research projects to Earth Sciences and to addressing the ICARP III research priorities (further RPs).

The study was based on 122 TA and RA project reports from INTERACCESS database as of early August 2024 (therefore not including projects granted in the TA/RA call for summer season 2024) and was conducted through content analysis of the text reports. The research employed several software for text analysis, i.e. NVIVO 14, MS Word, MS Excel and MS PowerPoint.

Content analysis provided a relatively safe process for examining masses of text according to defined research questions, and it was useful to provide valuable insights over time and space, even though it presents some limitations. Content analysis was used both as quantitative (focused on counting and measuring) and qualitative (focused on interpreting and understanding) method. In both types, words and themes within the texts were categorized or “coded” according to GCMD keywords and ICARP III RPs and its sub-categories. After that, the results were analysed by grouping projects with the same codes and identifying common objectives.

1.2. Statistics

In total 70% of research was funded in the TA Calls open in 2021 and 2022. Vast majority of the projects (88%) were classified under Earth sciences and environment and its various sub-categories according to the EU classification. Life Sciences and Biotechnology was relatively well represented (11%). There were only a couple TA proposals in the field of Humanities and Social Sciences, and these proposals did not merit for TA in INTERACT III.

Greenland was the primary country providing access where INTERACT III research was undertaken (21%), second one being Finland (14%), closely followed by Svalbard, multiple country projects, and Canada (about 12% each). Smaller share of research data collection happened in Alaska, Austria, Iceland, Norway, and Russia (less than 5% each). Stations located in the Faroe Islands, Poland, and Scotland were not accessed at all by the projects included in this analysis funded by INTERACT III. The distribution of the included user reports is presented in Table 1-3 and in Figure 1-3.

Table 1. Cases/reports included into INTERACT III user report analysis, by funding call year.

	Cases, count	%
2020	34	27.9
2021	43	35.2
2022	43	35.2
2023	2	1.6
Total	122	100

Figure 1. Cases/reports included into INTERACT III user report analysis, by funding call year.

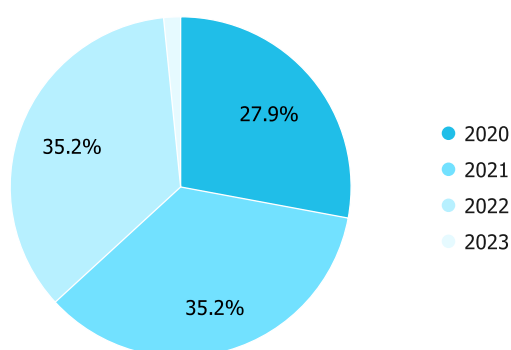


Table 2. Cases/reports included into INTERACT III user report analysis, by EU discipline.

	Cases	%
Earth Sciences and Environment	107	87.7
Life Sciences and Biotechnology	13	10.7
Engineering and technology	2	1.6
Total	122	100

Figure 2. Cases/reports included into INTERACT III user report analysis, by EU discipline.

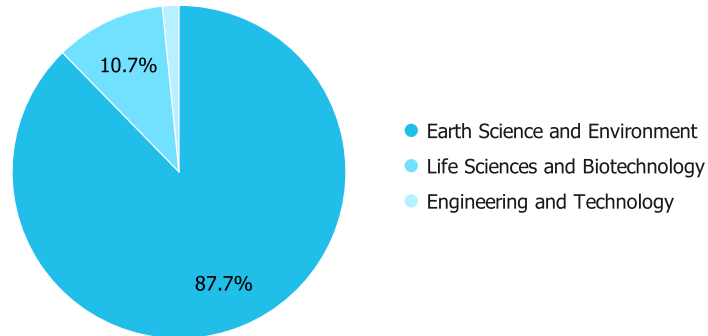
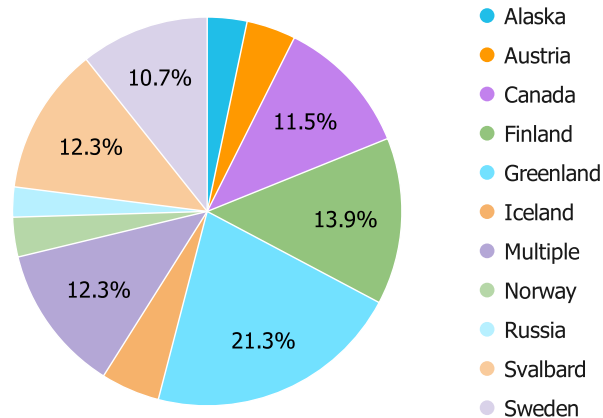


Table 3. Cases/reports included into INTERACT III user report analysis, by Country of Access

	Count	%
Alaska	4	3.3
Austria	5	4.1
Canada	14	11.5
Finland	17	13.9
Greenland	26	21.3
Iceland	6	4.9
Multiple	15	12.3
Norway	4	3.3
Russia	3	2.5
Svalbard	15	12.3
Sweden	13	10.7
Total	122	100.0

Figure 3. Cases/reports included into INTERACT III user report analysis, by Country of Access



1.3. Findings

The following overview on science supported by TA/RA in INTERACT III is based on the analysis of INTERACT III project reports and their sections on research objectives and achievements. Details on distribution and statistics concerning fields of research supported (GCMD keywords) and representation of ICARP III Research Priorities in the INTERACT III TA projects can be found in *Annex 1. Distribution of TA/RA project reports according to GCMD keywords and ICARP RPs.*

INTERACT III supported TA projects contributed the most into research on **Climate Indicators** (82% of 122 reports), in particular biosphere (ecosystems and vegetation), cryosphere (glaciers and ice sheets), and terrestrial hydrosphere indicators (Arctic freshwater, groundwater and snow research). Climate indicators research feeds into the ICARP III research priority 2 "Observing and predicting future climate dynamics and ecosystem responses" (76%).

Biosphere was the second largest theme (70.5% of the projects were coded with biosphere-related GCMD keywords and 65% with sub-component Arctic Biodiversity of ICARP III research priority 3 "Understanding the vulnerability and resilience of Arctic environments"), with most research focusing on Arctic and sub-Arctic ecosystems, and ecological dynamics and vegetation. Arctic plants, shrubs and microbial communities were the most studied species, based on the biological classification keywords.

Altogether 64% of the supported projects contributed to the ICARP III research priority 1 “The role of the Arctic in the global system”, with 78 project reports indicating research related to the ICARP RP1 sub-components: Arctic and mid-latitudes (20.5%), Arctic and Alpine research (8%), Arctic and the Anthropocene (16%), and linking studies across at least two of spheres (45%). The Arctic and Anthropocene sub-component corresponds to the GCMD category **Human Dimensions** with largest share of contribution to the topic of environmental impacts and pollution research e.g. light pollution, microplastics and nanoplastics in the air, pathogenic microbial communities and radioactivity in the glaciers, organic and chemical contaminants in the rivers and freshwaters, mercury in permafrost and snow, animal health of Arctic species under climate change and other environmental modifications (i.e. an increase in contaminants).

Air(atmosphere)-Sea(ocean)-Terrestrial-Ice interactions were studied in 61% of research reports. The focus to air/atmosphere interactions and gases, aerosols, air chemistry and quality was reported in 20 projects (16%) e.g. nitrous oxide exchange, carbon and methane gas emission research in air-soil-permafrost nexus, greenhouse gas fluxes, and high latitude dust depositions in the air, air sampling in glaciers to gain insight into airborne distribution of pathogenic microbes, nanoplastics and microplastic invasion in remote air through atmospheric deposition, impact of terrestrial emissions on Atmospheric new particle formation in the High Arctic, evaluating natural darkness and light pollution in subarctic Scandinavia. In the field of **Hydrosphere** research, glaciers, ice sheets and caps were studied in 16% of included project reports looking at (sub)glacial topography, thickness, structure and dynamics, melt and gas emissions, glacier microbes, radioactive memory, past reconstruction of glacier behaviour. **Water chemistry and quality** were analysed in 15% of the projects. **Permafrost or frozen ground** related research (15%) included projects on radar based assessment of permafrost degradation across remote landscapes, mineral protection of organic matter during permafrost thaw, nitrous oxide, carbon and other gas exchange in a permafrost dominated regions, impact of heavy rain on permafrost stability, the extent of the permafrost layer in the peatlands, carbon accumulation in permafrost peatlands and ponds, thermal influences, pollution from permafrost e.g. mercury and biological dynamics in continuous permafrost areas with implications to One Health, developing protocols for standardized monitoring of permafrost thaw.

Paleoclimate was also addressed: 10 projects (8%) contributed to e.g. reconstructing the late Holocene extent and behaviour of glaciers in Greenland, using blue rings in trees and shrubs for reconstructing summer cooling events in northern Fennoscandia, tree rings for disturbance reconstruction in the forests, reconstructing past environmental impact on Northern Rangifer populations as well as Arctic waders, three-spine sticklebacks and other species.

Every fourth user report contributed to the development of **Observing systems, modelling, long-term monitoring, standards** (24%), including long-term experimental climate manipulation and historical re-surveys. Every fifth report applied **Technology and engineering** e.g. spectroscopy, radars, remote sensing and imaging, or some other novel technologies in the research (21% in GCMD and ICARP RP 2. New technology). There were projects using drone/quadro-copters, flying aircrafts, aerial devices, unmanned submarines, radio tracking, robots and other unmanned vehicles in the field work. The most studied topics in this section were glacier hydrology and ice research as well as biodiversity related studies. No study on telemedicine was found in this analysis.

Involvement of early-career scholars was mentioned in 12% of the reports e.g. as involvement of junior scholars, students or interns in training how to conduct field work, work on sample materials for their thesis projects, co-author scientific publications with senior scholars, organize PhD course (winter school) by the project, establish plots for educational purposes for students and visitors. In reality, the number of early-career researchers in the TA user groups is much higher (around 50%), but as the team members are listed separately in the List of Users, they are not so often mentioned in those parts of the project reports that were analysed in this study.

2. Publications resulting from INTERACT III Transnational Access

2.1. Scientific publications

2.1.1. Statistics

The information about publications supported by INTERACT III Transnational Access was gathered from TA user groups periodically at the end of every field season, with additional periodical reminders, and in the end of each reporting period. In addition, some groups submitted publication information in INTERACCESS or reported them by email to TA Coordination every time they had an article accepted or out from the print in a scientific journal.

The user groups were provided with instructions on how to acknowledge EU H2020 and the INTERACT III project in their scientific publications and presentations, according to the guidelines provided in GA. In addition, many groups wanted to acknowledge INTERACT in their scientific presentations and speeches; the INTERACT project logo, title and the EU H2020 grant agreement number was provided for that.

In total 88 publications of different types were reported by the TA user groups in 2020-2024 (see Annex 2). Furthermore, 73 additional publications resulted from INTERACT II Transnational Access which had not been published by the time of the INTERACT II final report in 2021 (see Annex 3). Several articles were reported to be in preparation for submission or have just been submitted to peer-review journals in December 2024, ensuring that the scientific legacy of INTERACT III will remain and even increase in the years to come.

The research groups supported by Transnational Access have produced publications over a range of disciplines. Articles in peer-reviewed scientific journals have been/are being published on a wide range of topics such as changes in glacier mass balance, hydrological and landscape changes, permafrost dynamics, biodiversity and ecosystem services, changes in ecology (e.g. Arctic tundra shrubification), biogeography, micro-climate changes, measurements of biogeochemistry and biogeophysics and land-atmosphere interactions (e.g. greenhouse gas fluxes), pollution and contaminants, just to mention some examples. So far, the TA visits have resulted in circa 26 articles in peer-reviewed scientific journals, including journals like Nature Communications Earth & Environment, Nature Scientific Reports, Ecosystems, Cryosphere, Boreas, Remote Sensing, Ecology, Journal of The Total Environment. An overview of the different types of publications reported by the TA user groups are provided in Figures 4 and 5.

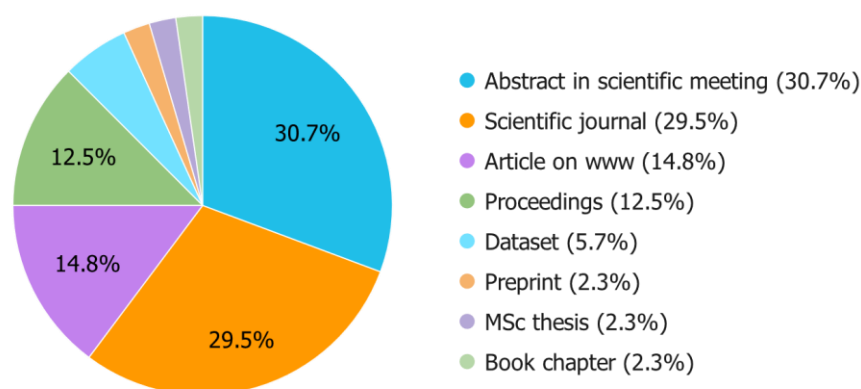


Figure 4. Publications resulting from INTERACT III in the period 2020-2024, by type of publications.

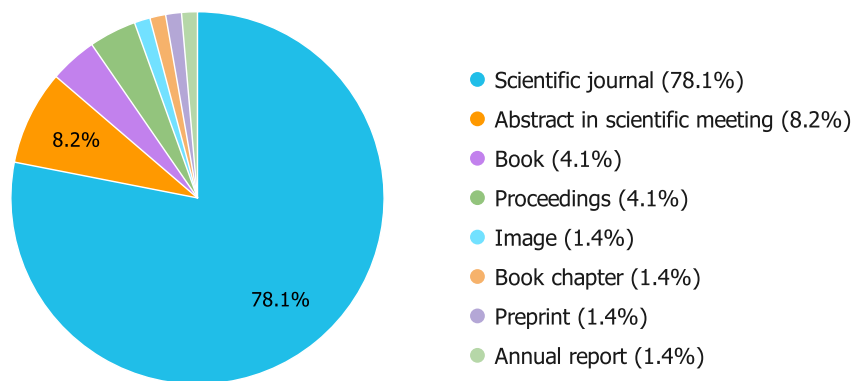


Figure 5. Publications resulting from INTERACT II not reported in INTERACT II final reporting (2017-2024), by type of publication.

The INTERACT III funding period 2020-2024 has shown a different trend compared to the previous funding periods of INTERACT I-II. The number of articles in scientific journals, in total 26 reported in 2020-2024 (29.5%), were as much as abstracts at scientific meetings (27 abstracts, 30.7%). Number of news articles, press releases and conference proceedings also increased compared to INTERACT II (12 articles on www, 14.8%; 11 proceedings, 12.5%). An important new feature introduced in INTERACT III is the tracking of datasets resulting from TA/RA projects. With the aim to improve FAIR data and open science, INTERACT TA Coordination started promoting the reporting of published datasets resulting from INTERACT III TA/RA projects. In total five open access datasets were reported in 2024 (5.7%), and more will be made available once the researchers have first published the data in journal articles. Other forms of publications included preprints, book chapters and master thesis (6.9% of all publications).

Overall, the amount of conference proceedings notably increased in the period 2020-2024 compared to 2017-2021, as well as outreach through news articles and press releases. On the contrary, articles in scientific journals decreased. The smaller amount of articles in scientific journals published so far from INTERACT III is very likely caused by the limitation to Transnational Access imposed by the COVID pandemic that seriously affected the 2020-2022 fieldwork campaigns. In the first two calls of INTERACT III (TA/RA call to new stations in INTERACT III and Call for spring/summer season 2021 and autumn/winter season 2021-22) respectively 3 and 26 projects were completed, with respectively 5 and 7 projects cancelled. In the TA/RA Call for spring/summer season 2022 and autumn/winter season 2022-23, 35 projects were reported. Finally, in the TA/RA calls for spring/summer season 2023 and for spring/summer season 2024 the number of completed projects

has returned to the average regime registered usually during INTERACT II, which amounts to 40-45 projects annually. Furthermore, it should also be noted that several projects granted access from the first two calls of INTERACT III were postponed due to travel restrictions imposed by the pandemic, which impacted the timeline of the data analysis and resulting publications. Eventually, increasing number of peer-reviewed publications from TA are expected to be published in the next few years, and with the improved tracking of the publications they will create a long-lasting legacy of INTERACT III (see section 3).

Overall, INTERACT I-II-III funding periods have resulted in approximately 610 publications supported by the INTERACT Transnational Access.

3. Tracking of the legacy publications and datasets from INTERACT III

INTERACT is committed to continue tracking the legacy in terms of publications resulting from INTERACT III TA in the future. The task will be conducted under the premises of the INTERACT Non-Profit Association.

Tracking of publications resulting from Transnational Access has been a challenging exercise for the INTERACT TA Coordination, and it is very likely that the number of currently tracked publications is an underestimation of the total number of papers that have been published so far. TA Users were requested to report their publications via INTERACCESS, or by email if unable to do so, after the end of every field season and in the end of each reporting period. As publications may require years to be published, the TA users may unfortunately forget to properly acknowledge INTERACT or report their work, even though regularly reminded about that.

Moreover, users may find reporting publications to INTERACT as a duplication of efforts from their side, because they might need to report their publications to several different repositories, e.g. institutional repositories or portals such as ORCID, Scopus and ResearchGate. Researchers feel naturally encouraged to report publications on platforms that increase the visibility of their work or present an exhaustive portfolio of their publications, therefore prioritising reporting in large, collective, online platforms (e.g. ORCID) rather than e.g. INTERACT project's publication repository.

This challenge is shared among various infrastructure consortia, and the INTERACT Non-Profit Association, as a partner of EU-H2020 project eRImote, had the possibility to discuss this issue with other infrastructure networks who encounter the same difficulty.

To understand the bottlenecks in reporting of publications and to find possible solutions to this problem, INTERACT TA Coordination made a survey to TA users asking for their experience with INTERACT and their overall habits in reporting of publications. Few TA users responded, and their answers show the same common features. According to the results, it is evident that reporting the publication records in INTERACCESS is not the optimal solution from TA users' perspective, most likely due to the fact that INTERACCESS is not linked to any public repository or publication portal. When asking for their usual practices in reporting publications, TA users consistently mentioned ORCID, and occasionally Research Gate and Google Scholar. Zenodo was one of the options in the survey, but none of the TA users selected it. TA users suggested ORCID, Scopus and Google Scholar as a platform to harvest publications resulting from Transnational Access. Unfortunately, it is not possible to automatically harvest or detect publications resulting from INTERACT Transnational Access from these platforms at the moment, and such task must be performed manually by the INTERACT TA Coordination. Additionally, PANGAEA and Zenodo were suggested for dataset publication by the TA Users.

Following the survey to INTERACT TA users and consultation with another EU-funded RI project, POLARIN, INTERACT TA Coordination has created an INTERACT Zenodo Community allowing TA users to report publications in Zenodo and link them with the INTERACT I-III grants. In the next years, INTERACT plans to employ also other platforms dedicated to sharing publications and data such as ORCID and Publish or Perish to capture the maximum number of publications resulting from INTERACT III Transnational Access.

On a more general level, INTERACT recommends the EU Commission to explore collaboration with research platforms such as ORCID for more integration in tracking of publications, allowing straightforward collection and reporting of publications and more visibility to the research outputs of the TA Users.

Annex 1. Distribution of TA/RA project reports according to GCMD keywords and ICARP RPs

Table 4. Science areas supported by INTERACT III funded projects as per GCMD keywords categories (showing only codes with content of at least 10 reports). Note: each user report may have been coded under multiple categories, wherever it deemed fitting.

	Reports* (at least 10)	Reports, % in 122
1. GCMD keywords		
ATMOSPHERE**	20	16.4%
BIOLOGICAL CLASSIFICATION	77	63.1%
Animal invertebrates	14	11.5%
Animal vertebrates	19	15.6%
Microbial communities	24	19.7%
Plants	36	29.5%
BIOSPHERE	86	70.5%
Ecological dynamics	67	54.9%
Ecosystems	85	69.7%
Vegetation	39	32.0%
CLIMATE INDICATORS	100	82.0%
Bispheric indicators	56	45.9%
Cryospheric indicators	16	13.1%
Terrestrial hydrosphere indicators	17	13.9%
HUMAN DIMENSIONS	19	15.6%
Environmental impacts	13	10.7%
LAND SURFACE	35	28.7%
Frozen ground (permafrost)	18	14.7%
Soils	15	12.3%
PALEOCLIMATE	10	8.2%
SPECTRAL or ENGINEERING	25	20.5%
TERRESTRIAL HYDROSPHERE	47	38.5%
Glaciers and ice sheets	19	15.6%
Water quality and chemistry	18	14.7%

* only shown those codes that contain at least 10 user reports

** In Bold - aggregate codes, without Bold - child codes.

Table 5. Science areas supported by INTERACT III funded projects as per overarching ICARP III research priorities (showing only codes with content of at least 10 reports). Note: each user report may have been coded under multiple categories wherever it deemed fitting.

	Reports* (at least 10)	Reports, % in 122
ICARP III Research priorities		
1. The role of the Arctic in the global system**	78	63.9%
Arctic and mid-latitudes	25	20.5%
Arctic and Alpine	10	8.2%
Arctic and the Anthropocene	19	15.6%
Linking studies across all spheres	55	45.1%
2. Observing and predicting future climate dynamics and ecosystem responses	93	76.2%
Air(atmosphere)- Sea(ocean)- Terrestrial- Ice interactions	74	60.7%
Air (atmosphere)	20	16.4%
Terrestrial	13	10.7%
Water, ice, glaciers, snow, permafrost	56	45.9%
New technology: unmanned vehicles, remote sensing etc	26	21.3%
Observing systems, modelling, monitoring, predictions, standards etc	29	23.8%
3. Understanding the vulnerability and resilience of Arctic environments	81	66.4%
Arctic biodiversity	79	64.7%
Capacity building and co-design	29	23.8%
Involving early-career scholars	15	12.3%
Total (unique)	122	100%

* only shown those codes that contain at least 10 user reports

** In Bold - aggregate codes, without Bold - child codes.



Annex 2. List of scientific publications resulting from INTERACT III Transnational Access in the period 2020-2024

year	Project acronym	Publication type	title	references	authors	web_address	doi
2025	AMAGSUM	Proceedings	A low-cost surface vehicle for studying the near-terminus region at tidewater glaciers	<i>MTS/IEEE OCEANS 2025, Brest.</i>	Hari Vishnu, Mandar Chitre, Bharath Kalyan, Tan Soo Pieng, Dale Stokes, Elizabeth Weidner, Matthias Hoffmann-Kuhnt		
2025	AMAGSUM	Proceedings	Estimating iceberg melt rates from video using novel view synthesis	<i>MTS/IEEE OCEANS 2025, Brest.</i>	Zhao Xiaohui, Hari Vishnu, Mandar Chitre, Bharath Kalyan, Hayden Johnson, Oskar Glowacki, Dale Stokes		
2025	ARNOLD 2.0	Scientific journal	Common juniper, the oldest nonclonal woody species across the tundra biome and the European continent	<i>Ecology 106(1): e4514.</i>	Marco Carrer, Raffaella Dibona, Davide Frigo, Ludmila Gorlanova, Rashit Hantemirov, Lucrezia Unterholzner, Signe Normand, Urs Albert Treier, Angela Luisa Prendin		https://doi.org/10.1002/ecv.4514
2025	RADARC	Scientific journal	Monitoring wet snow with a multiband dual-receiver radar system	<i>IEEE Transactions on Geoscience and Remote Sensing 63: 5101709 (2025).</i>	M. Lodigiani, L. Silvestri, P. F. Espín-López and M. Pasian		https://doi.org/10.1109/TGRS.2025.3531573
2024	AMAGSUM	Abstract in scientific meeting	Broadband echosounder derived measurements of 3D geometry of a subglacial discharge plume in Hornsund Fjord	<i>AGU2024, 9th Dec 2024, Washing D.C., USA. C11D-0480</i>	E. Weidner, G. Deane, F. Straneo, H. Vishnu and M. Chitre	https://agu.confex.com/agu/agu24/meetingapp.cgi/Paper/1555167	
2024	AMAGSUM	Abstract in scientific meeting	Working Towards Passive Acoustic Measurements of Submarine Melting at Marine-terminating Glaciers	<i>AGU2024, 9th Dec 2024, Washing D.C., USA. C31B-05</i>	H. Johnson, G. Deane, O. Glowacki, D. Stokes, H. Vishnu, E. Weidner, K. Gollamundi	https://agu.confex.com/agu/agu24/meetingapp.cgi/Paper/1644009	



2024	AMAGSUM	Abstract in scientific meeting	A Multi-Method Observation of Glacier Frontal Ablation and Related Processes in Hornsund Fjord, Svalbard	AGU2024, 9th Dec 2024, Washington D.C., USA. C44A-04	O. Glowacki, G. Deane, D. Stokes, P. Lewinska, M. Chitre, Hari Vishnu, M. Moskalik, D. Maniktala, H. Johnson and E. Weidner	https://agu.confex.com/agu/agu24/meetingapp.cgi/Paper/1662863	
2024	AMAGSUM	Article on www	Amid a changing Arctic, Singapore scientists head north to study ice loss and extreme seas	Straits Times, Feb 21, 2024	Shabana Begum	https://www.straitstimes.com/singapore/amid-a-changing-arctic-singapore-scientists-head-north-to-study-ice-loss-and-extreme-seas	
2024	AMAGSUM	Preprint	Brief communication: A low-cost surface vehicle for studying the near-terminus region at tidewater glaciers	EGUsphere [preprint]	Hari Vishnu, Mandar Chitre, Bharath Kalyan, Tan Soo Pieng, Dale Stokes, Elizabeth Weidner, Matthias Hoffmann-Kuhnt		https://doi.org/10.5194/egusphere-2024-32
2024	AMAGSUM	Proceedings	Acoustic observations of individual bubble release events from melting glacier ice in an arctic fjord	Journal of Acoustic Society of America 155, A99–A100 (2024)	H. Johnson, G. Deane, O. Glowacki, D. Stokes, M. Chitre, Hari Vishnu, E. Weidner	https://pubs.aip.org/asa/jasa/article/155/3/Supplement/A99/301542/Acoustic-observations-of-individual-bubble-release?searchresult=1	https://doi.org/10.1121/10.0026945
2024	AMAGSUM	Proceedings	Estimating Floating Ice Coverage in Tidewater Glacier Bays Automatically from Aerial Imagery	MTS/IEEE OCEANS 2024, Halifax	Hari Vishnu, Lin Tianyue, Mandar Chitre, Bharath Kalyan, Emily J. Venables	https://program-halifax24.oceanstechnical.org/researchprogram.cfm?sessionID=39	
2024	AMAGSUM	Proceedings	Sensory Odyssey: Into the Heart of Our Living World	ArtScience Museum, Exhibition May-Oct 2024, Singapore.	Haru Vishnu	https://www.marinabaysands.com/museum/events/exploring-natures-tapestry.html	
2024	AMAGSUM	Scientific journal	High frequency broadband acoustic systems as a tool for high latitude glacial fjord research (Under review)	EGUsphere [preprint], The Cryosphere	Elizabeth Weidner, Grant Deane, Arnaud Le Boyer, Matthew H. Alford, Hari Vishnu, Mandar Chitre, M. Dale Stokes, Oskar Glowacki, Hayden Johnson, and Fiammetta Straneo	https://egusphere.copernicus.org/preprints/2024/egusphere-2024-3025/	https://doi.org/10.5194/egusphere-2024-3025

2024	Arctic-APE	Abstract in scientific meeting	MONITORING NEW PARTICULE FORMATION AND CONDENSABLE VAPOURS IN AN ARCTIC SITE: NY-ÅLESUND	<i>REPORT SERIES IN AEROSOL SCIENCE No. 280 (2024), p.141</i>	A. Vaittinen, M. Boyer, Z. Brasseur, C. Righi, R. Thakur, N. Sarnela, M. Sipilä, L.L.J. Quéléver	https://downloads.ctfassets.net/hli0qi7fbbos/2yNyTf04k1r625tNALOriS/a37d5a35ab553219dba5726705913417/ACCC_FASN2024_abstract_book.pdf	
2024	ARNOLD	Article on www	DREAM. Drivers of juniper growth at the edge of the species' distribution over the last millennia	<i>University of Turku (Biodiversity Unit) newsletter 'Biodivari' 7/2024</i>	Angela Luisa Prendin, Davide Frigo, Marco Carrer		
2024	B-PAINTS	Scientific journal	Extremely low biodiversity Arctic intertidal habitats as sentinels for environmental change	<i>Frontiers in Marine Science 11: 1494734.</i>	H.J. Griffiths, C.L. Waller, S.J. Roberts, A.M. Jazdzewska, D.S. Hik	https://www.frontiersin.org/journals/marine-science/articles/10.3389/fmars.2024.1494734/full	https://doi.org/10.3389/fmars.2024.1494734
2024	BEFLUX	MSc thesis	Seasonal CH4 flux dynamics and the role of environmental variables in driving CH4 fluxes and abundance of CH4-related microorganisms in Arctic peatlands	<i>Aarhus University, MSc thesis</i>	Susanne Ternesø Fuglsang, Efrén López-Blanco	https://dce.au.dk/en/current/events/show/artikel/seasonal-dynamics-of-methane-fluxes-and-the-influence-of-environmental-variables-on-methane-emissions-and-methane-related-microbial-communities-in-arctic-peatlands	
2024	DECCAR	Scientific journal	Deadwood Diversity of boreal and sub-boreal Old-growth Forests in southern Finland	<i>SEEFOR 15(2): 141-150</i>	Isabella De Meo, Roberta Pastorelli, Francesco Vitali, Alessandro Paletto		https://doi.org/10.15177/seefor.24-18
2024	DUST	Article on www	Dust campaign in the Austrian Alps during 2024	<i>UArctic News 2024, 14 Jun 2024.</i>	Outi Meinander	https://www.uarctic.org/news/2024/6/dust-campaign-in-the-austrian-alps-during-2024/	
2024	DUST	Article on www	Dark volcanic dust in the most northern Iceland	<i>UArctic News 2024, 16 Sept 2024.</i>	Outi Meinander	https://www.uarctic.org/news/2024/9/dark-volcanic-dust-in-the-most-northern-iceland/	

2024	DUST	Article on www	Dust campaign in west Greenland during 2024	<i>UArctic News 2024, 16 Sept 2024.</i>	Outi Meinander	https://new.uarctic.org/news/2024/9/dust-campaign-in-west-greenland-during-2024/	
2024	EKIPACTIS	Abstract in scientific meeting	Hydration and dehydration cycles in lichens from a subarctic tundra	<i>X Simposio de Estudios Polares, Salamanca, 15-17 May 2024, pp91</i>	José Ignacio García Plazaola, Abel Torre, Joseba Manzano, Beatriz Fernández Marín		
2024	HeBOG	Scientific journal	Land cover changes across Greenland dominated by a doubling of vegetation in three decades	<i>Scientific Reports 14: 3120 (2024).</i>	Michael Grimes, Jonathan L. Carrivick, Mark W. Smith, Alexis J. Comber		https://doi.org/10.1038/s41598-024-52124-1
2024	LAMELI2022	Abstract in scientific meeting	Hidden aspects of photosynthetic organisms at the poles: looking on the wet, the frozen and the bright sides of green life	<i>X Simposio de Estudios Polares, Salamanca, 15-17 May 2024</i>	Beatriz Fernández-Marín, Alicia V. Perera-Castro, Miren Irati Arzac, Marina Lopez-Pozo, Laura Díaz-Jiménez, Águeda González-Rodríguez, José Ignacio García-Plazaola	http://hdl.handle.net/10366/157807	
2024	MICASA	Abstract in scientific meeting	The rhizosphere of <i>Silene acaulis</i> in western Greenland: soil carbon dynamics and microbial diversity	<i>Centennial Celebration and Congress of the International Union of Soil Sciences, 19-21 May 2024, Florence, Italy.</i>	M.C. Moscatelli, F. Canini, R. Marabottini, S. Marinari, C. Caruso, L. Bertini	https://drive.google.com/file/d/1V3oTqUNQC9v7cfYSTDjxaBQnHlozOFHf/view	
2024	MicroFun	Scientific journal	Singleton-based species names and fungal rarity: Does the number really matter?	<i>IMA Fungus 15: 7 (2024).</i>	J. Cazabonne, A.K. Walker, J. Lesven, D. Haelewaters		https://doi.org/10.1186/s43008-023-00137-2
2024	PAASP	Scientific journal	First Confirmed Report of Jamestown Canyon Virus in Greenland	<i>Journal of Medical Virology 96(11): e70064 (2024).</i>	J. Snyman, C.-A. Villeneuve, L.P. Snyman, V. Martinez, I. Dusfour, N. Lecomte, E.J. Jenkins, T.C. Hobman, P.A. Leighton, A. Kumar		https://doi.org/10.1002/jmv.70064
2024	PAWS	Abstract in scientific meeting	Plant biodiversity in a warming Arctic	<i>Society of Spanish Researchers in the United Kingdom (SRUK) seminar series on climate change and sustainability (invited speaker)</i>	Mariana García Criado		



2024	PAWS	Abstract in scientific meeting	Disentangling patterns of Arctic plant diversity and greening across scales	<i>Arctic Science Summit Week conference, Session 'International Cooperation in Action: UK Arctic Bursary Schemes - Greenland, Iceland and Japan' (invited speaker)</i>	Isla Myers-Smith, Mariana García Criado, Calum Hoad		
2024	PAWS	Abstract in scientific meeting	Plant biodiversity dynamics across a warming Arctic	<i>Open lecture at the Agricultural University of Iceland, October 2024, Reykjavik, Iceland (invited speaker)</i>	Mariana García Criado		
2024	PAWS	Dataset	Arctic bryophyte and lichen diversity across microclimatic and competition gradients	<i>Zenodo</i>	Mariana García Criado, Konsta Happonen, Inka Kuusisto, Claudia Colesie		https://doi.org/10.5281/zenodo.14259495
2024	PERMAMERC2	Abstract in scientific meeting	Mercury dynamics in thermokarst lakes in continuous permafrost areas: Zackenberg Valley, Northeast Greenland	<i>16th International conference on Mercury as a Global Pollutant, 21-26 July 2024, Cape Town, South Africa</i>	João Canário, Beatriz Martins, Diogo Folhas Ferreira, Holger Hintelmann, Martin Pilote, Raoul Couture, Torben R. Christensen	https://www.mercurycapetown.com	
2024	PERMAMERC2	Abstract in scientific meeting	Mercury dynamics in continuous permafrost areas recently affected by thaw: The case of Zackenberg Valley, Northeast Greenland	<i>ArcticNet's Arctic Change 2024, 9-12 Dec 2024, Ottawa, Canada.</i>	João Canário, Beatriz Martins, Diogo Folhas Ferreira, Holger Hintelmann, Martin Pilote, Raoul Couture, Torben R. Christensen	https://event.fourwaves.com/ac2024/pages	
2024	PermaOne	Article on www	Project on mosquito microbiomes in a changing climate at Bolmen	<i>SITES, Press release, 7 Aug 2024.</i>	SITES (Swedish Infrastructure for Ecosystem Science)	https://www.fieldsites.se/2024/08/15/project-mosquito-microbiomes-changing-climate-bolmen	
2024	PermaOne	Article on www	Mosquito from Bolmen sent to Hong Kong for examination	<i>SVT (National TV), News article, 2 Aug 2024</i>	SVT, Peter Osterberger	https://www.svt.se/nyheter/lokalt/halland/mygg-fran-bolmen-skickas-till-hong-kong-for-undersokning	

2024	PermaOne	Scientific journal	Ancient environmental microbiomes and the cryosphere	<i>Trends in Microbiology</i> 33(2): 233–249 (2025).	Alexander D. Williams, Vivian W. Leung, Julian W. Tang, Hidekazu Nishimura, Nobuhiro Suzuki, Andrew C. Clarke, David A. Pearce, Tommy Tsan-Yuk Lam		https://doi.org/10.1016/j.tim.2024.09.010
2024	PollAct	Proceedings	Polycyclic aromatic hydrocarbons (PAHs) in surface waters from the lower Kolyma catchment resemble those from permafrost sources	<i>12th International Conference on Permafrost, 16-20 June 2024. Volume 2: Extended Abstracts. Whitehorse : International Permafrost Association</i>	Danuta Szumińska, Krystyna Kozioł, Małgorzata Szopińska, Filip Pawlak, Joanna Józwiak, Żaneta Polkowska		
2024	Rad-ICE	Dataset	Environmental radioactivity of cryoconite collected at the Flade Isblink ice cap (NE Greenland)	PANGAEA	Dylan Beard, Giovanni Baccolo, Caroline C. Clason, Geoffrey E. Millward, Edyta Łokas, Sally Rangecroft, Dariusz Sala, Przemysław Wachniew, William H. Blake		https://doi.pangaea.de/10.1594/PANGAEA.966669
2024	Rad-ICE	Scientific journal	Accumulation of Environmental Radioactivity on the Surface of a High Arctic Ice Cap (Flade Isblink, NE Greenland)	<i>Environmental Science & Technology</i> , vol. 58(38):17004-17014	Dylan B. Beard, Giovanni Baccolo, Caroline C. Clason, Geoffrey E. Millward, Edyta Łokas, Elena Di Stefano, Sally Rangecroft, Dariusz Sala, Przemysław Wachniew, William H. Blake	https://pubs.acs.org/doi/10.1021/acs.est.3c10755#:~:text=(36)%20207Bi%20was%20detected,i%20the%20highest%20measured%20activity).	https://doi.org/10.1021/acs.est.3c10755
2024	RADARC	Proceedings	Seasonal Snow Melting Process Investigation in Polar Environment Using a Dual-Receiver Radar Architecture	<i>2024 18th European Conference on Antennas and Propagation (EuCAP), Glasgow, United Kingdom, 2024</i> , pp. 1-5	M. Lodigiani, L. Silvestri, P. F. Espín-López and M. Pasian		https://doi.org/10.23919/EuCAP60739.2024.10500995
2024	RADARC	Proceedings	Dielectric Characterization of Snow at 24 GHz: Insights from a Low-Cost Radar in Sodankyla, Finland	<i>IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece, 2024</i> , pp. 3282-3285.	. F. Espin-Lopez, M. Lodigiani, L. Silvestri and M. Pasian		https://doi.org/10.1109/IGARSS53475.2024.10641163

2024	RECOVER	Abstract in scientific meeting	Reanalysis of the surface mass balance of Mittivakkat Gletsjer (Southeast Greenland): Synthesizing data sources	<i>EGU General Assembly 2024, 14–19 April 2024, Vienna, Austria</i>	Christoph Posch, Simon de Villiers, Niels Tvis Knudsen, Jacob Clement Yde, Anders Anker Bjørk, Wolfgang Schöner, Jakob Abermann and Kamilla Hauknes Sjursen	https://doi.org/10.5194/egusphere-egu24-12396
2024	RECOVER	MSc Thesis	Reanalysis of the Mass Balance of Mittivakkat Gletsjer (Southeast Greenland): Synthesizing Data Sources	<i>University of Graz, Faculty of Environmental, Regional and Educational Science, MSc Thesis</i>	Christoph Posch	https://unipub.uni-graz.at/obvugr/hs/content/titleinfo/10599705
2024	RECOVER	Scientific journal	Variability of fallout radionuclide accumulation and possible contamination sources of a peripheral glacier in southeast Greenland	<i>Chemosphere 368: 143804 (2023).</i>	Kamil Wojciechowski, Jacob Clement Yde, Anna Cwanek, Simon de Villiers, Krzysztof Samolej, Bichal Bonczyk, Edyta Lokas	https://doi.org/10.1016/j.chemosphere.2024.143804
2024	SAFE	Scientific journal	Green-house gas fluxes and soil microbial functional genes abundance in saturated and drained peatlands in South-West Iceland.	<i>Science of The Total Environment 946: 174221 (2024).</i>	A. Lagomarsino, I. De Meo, H. Óskarsson, F. Rocchi, F. Vitali, and R. Pastorelli	https://doi.org/10.1016/j.scitotenv.2024.174221
2024	T-MOSAiC	Dataset	T-MOSAiC 2022 myThaw data set [dataset]	PANGAEA	J. Boike, J. Hammar, M. Goldau, N. Anselm, S. Chadburn, et al.	https://doi.pangaea.de/10.1594/PANGAEA.971586
2024	T-MOSAiC	Scientific journal	Circumarctic seasonal measurements of permafrost parameters (thaw depth, snow depth, vegetation and tree height, water level and soil properties) [dataset publication series]	PANGAEA	Julia Boike, Jennika Hammar, Maybrit Goldau, Frederieke Miesner, Norbert Anselm	https://doi.pangaea.de/10.1594/PANGAEA.971787
2024	T-REX	Scientific journal	Limited sensitivity of permafrost soils to heavy rainfall across Svalbard ecosystems	<i>Science of The Total Environment 943: 173696 (2024).</i>	R.I. Magnússon, S. Schuur, A. Hamm, M.A. Verhoeven, J. Limpens, M.J.E.E. Loonen, S.I. Lang	https://doi.org/10.1016/j.scitotenv.2024.173696

2024	TREELINE	Scientific journal	Biogeography of larches in eastern Siberia – using single nucleotide polymorphisms derived by genotyping by sequencing	<i>Ecography</i> 2024(7): e07092.	Sarah Haupt, Nadine Bernhardt, Stefanie Killing, Stefano Meucci, Ulrike Herzs Schuh, Evgenii S. Zakharov, Dörte Harpke, Luidmila A. Pestryakova, Stefan Kruse	https://nsojournals.onlinelibrary.wiley.com/doi/10.1111/ecog.07092	https://doi.org/10.1111/ecog.07092
2024	TVTSOGQIC	Scientific journal	Geometry and thermal regime of the southern outlet glaciers of Qaanaaq Ice Cap, NW Greenland	<i>Earth Surface Processes and Landforms</i> 49(13): 4275–4288 (2024).	Kristaps Lamsters, Jānis Karušs, Jurijs Ješkins, Pēteris Džeriņš, Shinta Ukai, Shin Sugiyama	https://onlinelibrary.wiley.com/doi/10.1002/esp.5966	https://doi.org/10.1002/esp.5966
2024	VEGA	Preprint	Opportunistic partner choice among arctic plants and root-associated fungi is driven by environmental conditions	<i>bioRxiv</i> 2024.09.14.613029	B. Parisy, N.M. Schmidt, A.R. Cirtwill, E. Villa-Galaviz, M. Tiusanen, J. Siren, C.F.C. Klütsch, P.E. Aspholm, K. Raundrup, E.J. Vesterinen, H. Wirta, T. Roslin		https://doi.org/10.1101/2024.09.14.613029
2024	VEGA	Scientific journal	Arctic plant-fungus interaction networks show major rewiring with environmental variation	<i>Communications Earth & Environment</i> 5: 735 (2024).	Bastien Parisy, Niels M. Schmidt, Alyssa R. Cirtwill, Edith Villa-Galaviz, Mikko Tiusanen, Cornelya F. C. Klütsch, Paul E. Aspholm, Katrine Raundrup, Eero J. Vesterinen, Helena Wirta, Tomas Roslin		https://doi.org/10.1038/s43247-024-01902-w
2023	2GEIL	Abstract in scientific meeting	First measurement of methane emissions from Canadian glaciers in the Yukon	<i>EGU General Assembly 2023, Vienna, Austria.</i>	Sarah Elise Sapper, Christian Juncher Jørgensen, Moritz Schroll, Frank Keppler, and Jesper Riis Christiansen		https://doi.org/10.5194/egu-sphere-egu23-12327
2023	2GEIL	Scientific journal	Methane emissions from subglacial meltwater of three alpine glaciers in Yukon, Canada	<i>Arctic, Antarctic, and Alpine Research</i> , 55:1	Sarah Elise Sapper, Christian Juncher Jørgensen, Moritz Schroll, Frank Keppler, Jesper Riis Christiansen	https://www.tandfonline.com/doi/full/10.1080/15230430.2023.2284456	https://doi.org/10.1080/15230430.2023.2284456
2023	C-SLICR	Abstract in scientific meeting	Co-development of a new model for contaminant monitoring to support Indigenous-led research and strategic decision-making	<i>UK Arctic Science Conference 2023, Cambridge, UK.</i>	Louise Mercer, Deva-Lynn Pokiak, Paul Mann, Michael Lim, Dustin Whalen	https://www.arctic.ac.uk/wp-content/uploads/2023/09/UK-Arctic-Science-Conference-2023-Programme.pdf	

2023	CIRCE	Abstract in scientific meeting	Diversity of bacterial communities associated with <i>Spongilla lacustris</i> (Linnaeus, 1759) specimens inhabiting the Pasvik River and Kevo Lake	<i>13th Symposium for European Freshwater Sciences (SEFS13), 18th - 23rd June 2023 in Newcastle Upon Tyne, England.</i>	C. Rizzo, G. Caruso, G. Maimone, M. Bertolino, M. Papale, A.C. Rappazzo, R. Soldano, S. Giannarelli, P.E. Aspholm, M. Azzaro, A. Lo Giudice	https://www.sefs13.com/files/ugd/705d57_d495c43d8d3b4df788a9a00f3f07c72e.pdf	
2023	CIRCE	Abstract in scientific meeting	Plastic ingested by the Arctic freshwater fish <i>Thymallus thymallus</i> (Linnaeus, 1758) from the Teno River (Finland)	<i>Second International Symposium on Plastics in the Arctic and Sub-Arctic Region, 22-23 November 2023 - Reykjavík, Iceland</i>	C. Rizzo, C. Pedà, F. Laface, P. Battaglia, T. Romeo, S. Giannarelli, M. Azzaro, A. Lo Giudice		
2023	CIRCE	Abstract in scientific meeting	Plastics detection in the sediments from the sub-Arctic Pasvik River (Norway)	<i>Second International Symposium on Plastics in the Arctic and Sub-Arctic Region, 22-23 November 2023 - Reykjavík, Iceland</i>	C. Rizzo, C. Pedà, F. Laface, P.E. Aspholm, T. Romeo, M. Azzaro, A. Lo Giudice	https://www.arcticplastics.is/images/2023/Posters/POSTER_SESION.pdf	
2023	KolymaSed	Proceedings	Permafrost affected large rivers bed morphology: "Holes" in the bed of Kolyma river	<i>XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG), 11-20 July 2023, Berlin, Germany.</i>	M. Habel, S. Chalov, V. Ivanov, V. Efimov, D. Cieptowski, K. Bérenger	https://gfzpublic.gfz-potsdam.de/pubman/item/item_5019308	https://doi.org/10.57757/IUGG23-2607
2023	LowTropVRS	Article on www	Studying the lower troposphere at Villum Reserach Station	<i>Polar Research, Press Release, 8 Sept 2023</i>	J. Fipper, W. Schoener	https://www.polarresearch.at/studying-the-lower-troposphere-at-villum-research-station/	
2023	PAWS	Abstract in scientific meeting	Arctic plant biodiversity dynamics across space and time	<i>Global Change Seminars, University of Edinburgh (invited speaker)</i>	Mariana García Criado		
2023	PAWS	Abstract in scientific meeting	Arctic plant ecology: an interdisciplinary science?	<i>InterArctic Knowledges conference, Durham University (invited speaker)</i>	Mariana García Criado		
2023	PERMAMERC2	Article on www	In Greenalnd, Portuguese scientist work frozen soil in an innovative study	<i>Publico (National Newspaper), News article, 25 July 2023</i>	João Canário	https://www.publico.pt/2023/07/25/ciencia/noticia/gronelandia-cientistas-portugueses-	

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2023	PlantStory	Article on www	A Swiss team in the footsteps of two botanists from the past	<i>Polar Journal, News article, 28 Aug 2023</i>	Mirjana Binggeli	https://polarjournal.net/a-swiss-team-in-the-footsteps-of-two-botanists-from-the-past/	
2023	PlantStory	Book chapter	Plants in the High Arctic and Long-Term Effects of Climate Change	<i>Plants in the High Arctic and Long-Term Effects of Climate Change. In Christiane Leister, Martin Breum, Silke Landtwing, Leister Expeditions in 2021 and 2022 - Discoveries and Explorations in North Greenland (pp. 182-187). Leister Foundation.</i>	Christian Rixen	https://www.leister-group.com/en/Stories/2022-15-09-LAG-Greenland-Expedition-2022	
2023	PlantStory	Book chapter	The hardy plants of North Greenland	<i>The hardy plants of North Greenland. In Christiane Leister, Martin Breum, Silke Landtwing, Leister Expeditions in 2021 and 2022 - Discoveries and Explorations in North Greenland (pp. 188-191). Leister Foundation.</i>	Christian Rixen	https://www.leister-group.com/en/Stories/2022-15-09-LAG-Greenland-Expedition-2022	
2023	PlantStory	Scientific journal	Grönland: bei den nördlichsten Pflanzen der Welt	<i>Infoflora, pp. 26-29</i>	Christian Rixen		
2023	PollAct	Abstract in scientific meeting	Water chemistry of the lower Kolyma River and its tributaries based on data for the summer of 2021	<i>ASSW 2023, 17-24 Feb 2023, Vienna, Austria.</i>	Danuta Szumińska, Krystyna Koziół, Małgorzata Szopińska, Marcin Frankowski, Żaneta Polkowska	https://assw.info/past-assws/assw-2023/assw-2023-program	
2023	PollAct	Abstract in scientific meeting	Chemical characteristics of vertical profiles of the two thermokarst lakes in the Russian Arctic (the lower Kolyma basin)	<i>ASSW 2023, 17-24 Feb 2023, Vienna, Austria</i>	Danuta Szumińska, Krystyna Koziół, Małgorzata Szopińska, Marcin Frankowski, Żaneta Polkowska	https://assw.info/past-assws/assw-2023/assw-2023-program	

2023	PollAct	Scientific journal	Reemission of inorganic pollution from permafrost? A freshwater hydrochemistry study in the lower Kolyma basin (North-East Siberia)	<i>Land Degradation & Development</i> 34(17): 5591–5605 (2023).	Danuta Szumińska, Krystyna Koziol, Sergey Chalov, Vasilii A. Efimov, Marcin Frankowski, Sara Lehmann-Konera, Żaneta Polkowska	https://onlinelibrary.wiley.com/doi/10.1002/ldr.4866	https://doi.org/10.1002/ldr.4866
2023	Rad-ICE	Article on www	The gaze of the ice cap	<i>EGU Blog, Cryospheric Sciences (CR) Division, News article, 27 Jan 2023</i>	Giovanni Baccolo	https://blogs.egu.eu/divisions/cr/2023/01/27/the-gaze-of-the-ice-cap/	
2023	REINS	Proceedings	Reconstructing past climate impacts on reindeers using Kevo lake sediments	<i>Kevo Research Station public talk, 2023, online and in person</i>	H. Mackay, D.J. Rush, and M.A. Berke		
2023	RESTEP	Scientific journal	Mapping trait versus species turnover reveals spatiotemporal variation in functional redundancy and network robustness in a plant-pollinator community	<i>Functional Ecology</i> , 37(3), 748-762.	Aoife Cantwell-Jones, Keith Larson, Alan Ward, Olivia K. Bates, Tara Cox, Charlotte Gibbons, Ryan Richardson, Abdullah M. R. Al-Hayali, Johan Svedin, Max Aronsson, Frida Brannlund, Jason M. Tylianakis, Jacob Johansson, Richard J. Gill	https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/1365-2435.14253?casa_token=7BZWpppQ9M0AAAAA%3AXd69PTTxTGhkhBIWqfOLyMy_9ZTywEwU9h1J3B3aWhLgYB-LcJsLYn_e7bjeLiq9iAlB9_n6G6-0ZOo	https://doi.org/10.1111/1365-2435.14253
2023	SNOW-BALL	Scientific journal	Mercury and microbial activity in snow influence Arctic hydrological systems	<i>Journal of Biological Research</i> 96, pag.10	Maria Papale, Alessandro Ciro Rappazzo, Gabriella Caruso, Warren Raymond Lee Cairns, Filippo Azzaro, Franco Decembrini, Giovanna Maimone, Maurizio Azzaro, Angelina Lo Giudice	https://iris.unipa.it/retrieve/877cfbd8-5db2-4b19-b6d5-2b5582eb7d97/JBR_2023_96%28s1%29_opt.pdf	https://doi.org/10.4081/jbr.2023.11312
2023	T-MOSAic	Dataset	T-MOSAic 2021 myThaw data set [dataset]	PANGAEA	J. Martin, J. Boike, S. Chadburn, S. Zwieback, N. Anselm, M. Goldau, J. Hammar, E. N. Abramova, S. Lisovski, S. Coulombe, B. Dakin, E. J. Wilcox, M.		https://doi.pangaea.de/10.1594/PANGAEA.956039

					Giamberini, F. Rader, O. Suominen, D. A. Rudd, M. Mastepanov, A. Young		
2023	T-REX	Dataset	Data 2022 - 2023 T-REX project Svalbard	<i>DANS Data Station Social Sciences and Humanities, V4, UNF:6:NG74B5gcvRzLX2A89IJO9 Q== [fileUNF]</i>	R. I. Magnússon		https://doi.org/10.17026/dans-23v-7hcg
2023	WIN3	Scientific journal	Rewilding Risks for Peatland Permafrost	<i>Ecosystems 26: 1806–1818 (2023).</i>	Milena Holmgren, Finn Groten, Manuel Rodríguez Carracedo, Sverre Vink, Juul Limpens		https://doi.org/10.1007/s10021-023-00865-x
2022	GSD	Abstract in scientific meeting	Mapping the bed in challenging radar environments on alpine glaciers and ice sheets using radar polarimetry	<i>EGU22, 23–27 May 2022, Vienna, Austria.</i>	M. Reza Ershadi, Reinhard Drews, Inka Koch, Falk Oraschewski, Rainer Prinz, Carlos Martin, Olaf Eisen	https://meetingorganizer.copernicus.org/EGU22/EGU22-9915.html	https://doi.org/10.5194/egusphere-egu22-9915
2022	HerbDiv	Abstract in scientific meeting	DISTRIBUTED TUNDRA EXCLOSURE NETWORK (TexNet) TO STUDY EFFECTS OF HERBIVORE DIVERSITY ON ECOSYSTEM FUNCTIONING	<i>Abstract book of INTECOL conference Geneva 2022</i>	Elina Kaarlejärvi, Isabel Barrio, James Speed, Eeva Soininen, TundraSalad team	https://www.genevaenvironmentnetwork.org/events/intecol-2022-13th-international-congress-of-ecology/	
2022	NATALPHEN	Abstract in scientific meeting	Juvenile social environment and range change in Icelandic Black-tailed Godwits	<i>British Ornithologists Union Conference, 2022</i>	J. Nightingale, T.G. Gunnarsson, J.A. Gill & J.A. Alves	https://bou.org.uk/conferences-and-meetings/bou2022-resources/	
2022	PollAct	Abstract in scientific meeting	Persistent organic pollutants remobilisation from permafrost? A preliminary study in the Kolyma basin (Russian Arctic)	<i>IAHS-AISH Scientific Assembly 2022, Montpellier, France, 29 May–3 Jun 2022.</i>	Danuta Szumińska, Krystyna Koziol, Małgorzata Szopińska, Sergiej R. Chalov, Vasilii A. Efimov, Marcin Frankowski, Żaneta Polkowska		https://doi.org/10.5194/iah2022-712
2022	Rad-ICE	Article on www	The intriguing order of cold terrains	<i>EGU Blog, Cryospheric Sciences (CR) Division, News article, 6 Oct 2022</i>	Giovanni Baccolo	https://blogs.egu.eu/divisions/cr/2022/10/06/stone-circles/	
2021	BELIGI	Article on www	Messkampagne auf Eis	<i>TU Braunschweig, Press release</i>	Lisa Ryll	https://magazin.tu-braunschweig.de/m-	

						post/messkampagne-auf-eis/?mtm_campaign=week	
2021	KolymaSed	Scientific journal	North to South Variations in the Suspended Sediment Transport Budget within Large Siberian River Deltas Revealed by Remote Sensing Data	<i>Remote Sensing</i> 13(22): 4549 (2021).	Sergey Chalov, Kristina Prokopeva, Michal Habel	https://www.mdpi.com/2072-4292/13/22/4549	https://doi.org/10.3390/rs13224549
2021	NATALPHEN	Abstract in scientific meeting	Does who you know explain what you know? The role of social information in juvenile Black-tailed Godwits' pre-migratory foraging success	<i>International Wader Study Group Conference, 2021</i>	J. Nightingale, T.G. Gunnarsson, J.A. Gill, J.A. Alves	https://www.waderstudygroup.org/conferences/2021-virtual-conference/#3	
2021	REINS	Proceedings	Reconstructing past environmental impact on northern Rangifer populations using lacustrine lipid biomarkers	<i>British Organic Geochemical Society Conference, 2021, July, online</i>	H. Mackay, D. Rush, K.L. Davies, and M. van Hardenbroek		
2021	T-MOSAIC	Scientific journal	Standardized monitoring of permafrost thaw: a user-friendly, multiparameter protocol	<i>Arctic Science</i> , 8(1): 153-182	J. Boike, S. Chadburn, J. Martin, S. Zwieback, I.H.J. Althuizen, N. Anselm, L. Cai, S. Coulombe, H. Lee, A.K. Liljedahl, M. Schneebeli, Y. Sjöberg, Noah Smith, Sharon L. Smith, Dmitry A. Streletskiy, Simone M. Stuenzi, Sebastian Westermann, Evan J. Wilcox	https://cdnsiencepub.com/doi/10.1139/as-2021-0007	https://doi.org/10.1139/as-2021-0007
2020	EnResClim	Scientific journal	Shallow depositional basins as potential archives of palaeoenvironmental changes in southwestern Greenland over the last 800 years	<i>Boreas</i> 50(1): i-iv, 1–329 (2021).	M. Roman, B. Chattova, J. Lehejcek, V. Tejnecky, D. Vondrak, P. Lulakova, K. Nemecek, J. Houska, O. Drabek, D. Nyvlt	https://onlinelibrary.wiley.com/doi/full/10.1111/bor.12483	https://doi.org/10.1111/bor.12483

Annex 3. List of scientific publications resulting from INTERACT II Transnational Access (2017-2024) not reported in INTERACT II final reporting

year	Project acronym	Publication type	title	references	authors	web_address	doi
2025	ARNOLD 2.0	Scientific journal	Common juniper, the oldest nonclonal woody species across the tundra biome and the European continent	<i>Ecology</i> 106(1): e4514.	Marco Carrer, Raffaella Dibona, Davide Frigo, Ludmila Gorlanova, Rashit Hantemirov, Lucrezia Unterholzner, Signe Normand, Urs Albert Treier, Angela Luisa Prendin		https://doi.org/10.1002/ecy.4514
2024	ARNOLD 2.0	Image	High resolution microsection images for: Common juniper, the oldest living organism across the tundra biome and the European continent.	Zenodo	Angela Luisa Prendin, Marco Carrer, Davide Frigo, Genny Fanchin	https://zenodo.org/records/11307027	https://doi.org/10.5281/zenodo.10654162
2024	ARNOLD 2.0	Abstract in scientific meeting	A ring-width based approach for disturbance detection and reconstruction	XIV Congresso Nazionale SISEF "Foreste per il futuro: Nuove sfide per la gestione multifunzionale e la ricerca" (a cura di Lingua E, Bolzon P, Marangon D, Baggio T, Bucci G). Padova (Italy) 9 - 12 Set 2024. Abstract-book, Paper #c14.8.3.	Davide Frigo, Angela Luisa Prendin, Emanuele Ziaco, Raffaella Dibona, Marco Carrer	https://congressi.sisef.org/xiv-congresso/?id=programma	
2024	BYOSOIL	Scientific journal	Soil microbial community responses to long-term experimental warming in an alpine Dryas octopetala heath in Norway	<i>Applied Soil Ecology</i> , 200, 105430.	Federica D'Alò, Gabriele Tosadori, Laura Zucconi, Silvano Onofri, Fabiana Canini, Ruben E. Roos, Kari Klanderud, Jana Voříšková		https://doi.org/10.1016/j.apsoil.2024.105430
2024	GLACIGREEN	Scientific journal	Lateglacial and Holocene chronology of climate-driven postglacial landscape evolution in northeast Greenland	<i>Boreas</i> , 54: 105-124.	Julia Garcia-Oteyza, Marc Oliva, David Palacios, Jose Maria Fernández-Fernández, Irene Schimmelpfennig, Marcelo Fernandes, Santiago Giralt, Dermot Antoniades, N. Andrés, Vincent Jomelli	https://onlinelibrary.wiley.com/doi/full/10.1111/bor.12683	https://doi.org/10.1111/bor.12683
2024	GLACIGREEN	Scientific journal	A ~5000 year multiproxy record of summer climate in NE Greenland	<i>Science of the Total Environment</i> , 906: 167713.	Julia García-Oteyza, Santiago Giralt, Sergi Pla-Rabes, Dermot Antoniades, Marc Oliva, H. Ghanbari, R. Osorio-Serrano, David Palacios	https://www.sciencedirect.com/science/article/abs/pii/S0926641023012683	https://doi.org/10.1016/j.scitotenv.2023.167713

						ce/article/pii/S0048969723063404	
2024	GLACIGREEN	Book	Glacial oscillations and climate variability in NE Greenland	<i>TDX (Theses and Dissertations Online)</i>	Julia García-Oteyza	http://hdl.handle.net/10803/692551	
2024	INFARI-DOM	Scientific journal	Clusters of composition: elemental content of aquatic organic matter in UK and Faroe peatlands	<i>Water Research 260: 121935</i>	Catherine S. Moody		https://doi.org/10.1016/j.watres.2024.121935
2024	SoilTemp	Scientific journal	Historic disturbance events overruled climatic factors as drivers of ruderal species distributions in the Scandinavian mountains	<i>Nordic Journal of Botany, e04382</i>	Dymphna Wiegmans, Keith Larson, Jan Clavel, Lore Hostens, Jasmine Spreeuwiers, Amber Pirée, Ivan Nijs, Jonas J. Lembrechts		https://doi.org/10.1111/njb.04382
2024	SoilTemp	Scientific journal	Roadside disturbance promotes plant communities with arbuscular mycorrhizal associations in mountain regions worldwide	<i>Ecography, e07051</i>	Jan Clavel, Jonas J. Lembrechts, Jonathan Lenoir, Sylvia Haider, Keith McDougall, Martin A. Nuñez, Jake Alexander, Agustina Barros, Ann Milbau, ..., Erik Verbruggen, Ivan Nijs		https://doi.org/10.1111/ecog.07051
2023	ARNOLD 2.0	Scientific journal	Growth form and leaf habit drive contrasting effects of Arctic amplification in long-lived woody species	<i>Global Change Biology, Volume29, Issue20, October 2023, Pages 5896-5907</i>	Davide Frigo, Ólafur Eggertsson, Angela Luisa Prendin, Raffaella Dibona, Lucrezia Unterholzner, Marco Carrer	https://onlinelibrary.wiley.com/doi/full/10.1111/gcb.16895	https://doi.org/10.1111/gcb.16895
2023	BIP	Abstract in scientific meeting	Porifera of the Pasvik River (Northern Fennoscandia): microbiological and chemical observations in <i>Spongilla lacustris</i> (Linnaeus, 1759) and <i>Ephydatia muelleri</i> (Lieberkühn, 1856)	<i>13th Symposium for European Freshwater Sciences (SEFS13), 18th - 23rd June 2023 in Newcastle Upon Tyne, England.</i>	C. Rizzo, G. Caruso, G. Maimone, L. Patrolecco, M. Termine, M. Bertolino, S. Giannarelli, M. Papale, T. Pescatore, A.C. Rappazzo, J. Rauseo, R. Soldano, F. Spataro, P.E. Aspholm, M. Azzaro, A. Lo Giudice	https://www.sefs13.com/files/ugd/705d57_d495c43d8d3b4df788a9a00f3f07c72e.pdf	
2023	BIP	Abstract in scientific meeting	Diversity of bacterial communities associated with <i>Spongilla lacustris</i> (Linnaeus, 1759) specimens inhabiting the Pasvik River and Kevo Lake.	<i>13th Symposium for European Freshwater Sciences (SEFS13), 18th - 23rd June 2023 in Newcastle Upon Tyne, England.</i>	C. Rizzo, G. Caruso, G. Maimone, M. Bertolino, M. Papale, A.C. Rappazzo, R. Soldano, S. Giannarelli, P.E. Aspholm, M. Azzaro, A. Lo Giudice	https://www.sefs13.com/files/ugd/705d57_d495c43d8d3b4df788a9a00f3f07c72e.pdf	
2023	BYOSOIL	Abstract in scientific meeting	Soil microbial response to long-term warming experiments in alpine <i>Dryas octopetala</i> heath	<i>ASSW2023 - Arctic Science Summit Week 2023, 17th-24th Feb 2023, Vienna, Austria.</i>	F. D'Alò, S. Onofri, R.E. Roos, G. Tosadori, K. Klanderud, J. Voriskova		
2023	CRYPTOSOIL	Scientific journal	Vascular plant and cryptogam abundance as well as soil chemical properties shape microbial communities in the successional gradient of glacier foreland soils	<i>Science of the Total Environment, 2023, 860: 160550.</i>	K. Rola, K. Rožek, K. Chowanec, J. Błaszowski, I. Gielas, M. Stanek, P. Wietrzyk-Pełka, M. Węgrzyn, P. Fałowska, P. Dziurawicz, P. Nicia, B. Bejger, P. Zadrozny, A. Pliszko, J. Zalewska-Gałosz, S. Zubek	https://www.sciencedirect.com/science/article/pii/S0048969722076537	https://doi.org/10.1016/j.scitotenv.2022.160550

2023	DPSAW	Scientific journal	Incubation behaviour of the Common Ringed Plover <i>Charadrius hiaticula</i> at different latitudes	<i>Journal of Ornithology</i> 164: 825–833 (2023)	Kees Wanders, Mohammed Almalki, Oddvar Heggøy, Terje Lislevand, Chris McGuigan, Götz Eichhorn, Geir Wing Gabrielsen, Viktoria Azarov, Leylya Khasyanova, Tamás Székely	https://link.springer.com/article/10.1007/s10336-023-02077-5	https://doi.org/10.1007/s10336-023-02077-5
2023	GLACIGREEN	Scientific journal	Holocene glacial oscillations in the Tyrolean Valley (NE Greenland)	<i>Land Degradation & Development</i> , 34(9): 2589-2606.	J. García-Oteyza, M. Oliva, D. Palacios, J.M. Fernández-Fernández, I. Schimmelpfennig, M. Fernandes, A. Medialdea, S. Giralt, V. Jomelli, D. Antoniades, ASTER Team	https://onlinelibrary.wiley.com/doi/full/10.1002/ldr.4633	https://doi.org/10.1002/ldr.4633
2023	GLIN	Scientific journal	The vertical atmospheric structure of the partially glacierised Mittivakkat valley, southeast Greenland	<i>Journal of Glaciology</i> . 2023;69(277):1097-1108.	I. Hansche, S. Shahi, J. Abermann, W. Schöner	https://www.cambridge.org/core/journals/journal-of-glaciology/article/vertical-atmospheric-structure-of-the-partially-glacierised-mittivakkat-valley-southeast-greenland/F47255DD27CFAE332D23FD61FBEB448	https://doi.org/10.1017/jog.2022.120
2023	SoilTemp	Book chapter	The Role of Roads and Trails for Facilitating Mountain Plant Invasions	<i>The Role of Roads and Trails for Facilitating Mountain Plant Invasions. In: Dr Agustina Barros, CONICET, Argentina, Dr Ross Shackleton, Dr Lisa Rew, Montana State University, USA, Dr Cristóbal Pizarro, University of Concepción, Chile, and Dr Anibal Pauchard (eds A. Barros et al.). Tourism, Recreation and Biological Invasions. CAB International 2022. p. 14-26.</i>	A. Barros, S. Haider, J. Müllerová, J.M. Alexander, M.A. Alvarez, V. Aschero, ..., J.J. Lembrechts		https://doi.org/10.1079/9781800620544.0003
2023	SoilTemp	Scientific journal	The drivers of dark diversity in the Scandinavian mountains are metric-dependent	<i>Journal of Vegetation Science</i> , e13212	Lore Hostens, Koenraad Van Meerbeek, Dymphna Wiegmans, Keith Larson, Jonathan		https://doi.org/10.1111/jvs.13212

					Lenoir, Jan Clavel, Ronja Wedegärtner, Amber Pirée, Ivan Nijs, Jonas J. Lembrechts		
2023	SoilTemp	Preprint	Litter quality outweighs climate as a driver of decomposition across the tundra biome	<i>EcoEvoRxiv</i>	Haydn J.D. Thomas, Isla H. Myers-Smith, Toke T. Høye, Matteo Petit Bon, Jonas J. Lembrechts, ..., Judith M. Sarneel		https://doi.org/10.32942/X28W2T
2023	SoilTemp	Scientific journal	Rapid upwards spread of non-native plants in mountains across continents	<i>Nature Ecology & Evolution</i> , 7(3) 405-413	Evelin Iseli, Chelsea Chisholm, Jonathan Lenoir, Sylvia Haider, Tim Seipel, Agustina Barros, Anna L. Hargreaves, Paul Kardol, Jonas J. Lembrechts, Keith McDougall, Irfan Rashid, Sabine B. Rumpf, ..., Jake M. Alexander		https://doi.org/10.1038/s41559-022-01979-6
2023	TSENS	Scientific journal	Maximum summer temperatures predict the temperature adaptation of Arctic soil bacterial communities	<i>Biogeosciences</i> , 20(4), 767-780.	Ruud Rijkers, Mark Dekker, Rien Aerts, James T. Weedon	https://bg.copernicus.org/articles/20/767/2023/	https://doi.org/10.5194/bg-20-767-2023
2023	WIN2	Scientific journal	Rewilding Risks for Peatland Permafrost	<i>Ecosystems</i> 26: 1806–1818 (2023).	Milena Holmgren, Finn Groten, Manuel Rodríguez Carracedo, Sverre Vink, Juul Limpens		https://doi.org/10.1007/s10021-023-00865-x
2023	WoodForCE	Scientific journal	A temporal segmentation approach for dendrometers signal-to-noise discrimination	<i>Computers and Electronics in Agriculture</i> 210: 107925 (2023).	S. Francini, C. Cocozza, T. Hölttä, A. Lintunen, T. Paljakka, G. Chirici, M.L. Traversi, A. Giovannelli	https://www.sciencedirect.com/science/article/pii/S0168169923003137	https://doi.org/10.1016/j.compag.2023.107925
2022	a	Scientific journal	From intra-plant to regional scale: June temperatures and regional climates directly and indirectly control <i>Betula nana</i> growth in Arctic Alaska	<i>Ecosystems</i> 26: 491–509 (2023).	A. Buchwal, M.S. Bret-Harte, H. Bailey, J.M. Welker		https://doi.org/10.1007/s10021-022-00771-8
2022	ACT-RG	Abstract in scientific meeting	Rock glaciers in the low Arctic of Greenland: surface and subsurface structure, permafrost conditions, long-term evolution, and present kinematics of a large rock glacier system at Bjørneø Island, SW Greenland	<i>EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-3663.</i>	A. Kellerer-Pirklbauer, J. Abermann, F. Bernsteiner, K. Langley, T. Strozzzi, M. Mergili	https://meetingorganizer.copernicus.org/EGU22/EGU22-3663.html	https://doi.org/10.5194/egusphere-egu22-3663
2022	ACT-RG	Scientific journal	Challenging the southern boundary of active rock glaciers in West Greenland	<i>Permafrost and Periglacial Processes</i> 33, 2, p.129–133.	J. Abermann, K. Langley	https://onlinelibrary.wiley.com/doi/full/10.1002/ppp.2139	https://doi.org/10.1002/ppp.2139
2022	ACT-RG	Book	Surface and subsurface structure and ice content of an active rock glacier in southwest Greenland	<i>Master Thesis, University of Graz, 142 pages.</i>	F. Bernsteiner	https://unipub.uni-graz.at/obvugrhc/content/titleinfo/8285697	

2022	AirMiMic	Scientific journal	Pigment signatures of algal communities and their implications for glacier surface darkening	<i>Scientific Reports</i> 12: 17643 (2022).	Laura Halbach, Lou-Anne Chevrollier, Eva L. Doting, Joseph M. Cook, Marie B. Jensen, Liane G. Benning, James A. Bradley, Martin Hansen, Lars C. Lund-Hansen, Stieg Markager, Brian K. Sorrell, Martyn Tranter, Christopher B. Trivedi, Matthias Winkel, Alexandre M. Anesio		https://doi.org/10.1038/s41598-022-22271-4
2022	AMIMA	Scientific journal	Mercury isotope evidence for Arctic summertime re-emission of mercury from the cryosphere	<i>Nature Communications</i> 13: 4956 (2022).	Ferreira Araujo et al.	https://www.nature.com/articles/s41467-022-32440-8	https://doi.org/10.1038/s41467-022-32440-8
2022	ARCTIC-GBR	Proceedings	A novel approach for calculating the internal layers of snowpacks using a S-band radar	<i>52th European Microwave Conference (EuMC2022)</i>	P.F. Espín-López, M. Pasion	https://ieeexplore.ieee.org/document/9924336	https://doi.org/10.23919/EuMC54642.2022.9924336
2022	BITCue	Scientific journal	Automatic flower detection and phenology monitoring using time-lapse cameras and deep learning	<i>Remote Sens Ecol Conserv</i> , 8: 765-777.	Hjalte M.R. Mann, Alexandros Iosifidis, Jane U. Jepsen, Jeffrey M. Welker, Maarten J.J.E. Loonen, Toke T. Høy	https://zslpublications.onlinelibrary.wiley.com/doi/full/10.1002/rse2.275	https://doi.org/10.1002/rse2.275
2022	BLACK	Scientific journal	Newly identified climatically and environmentally significant high-latitude dust sources	<i>Atmos. Chem. Phys.</i> , 22, 11889–11930.	O. Meinander et al.		https://doi.org/10.5194/acp-22-11889-2022
2022	BOREALFIRE	Scientific journal	Changes in tree growth synchrony and resilience in Siberian <i>Pinus sylvestris</i> forests are modulated by fire dynamics and ecohydrological conditions	<i>Agricultural and Forest Meteorology</i> 312, 108712	Ester González de Andrés, Tatiana A. Shestakova, Rebecca C. Scholten, Clement J.F. Delcourt, Natalia V. Gorina, J. Julio Camarero		https://doi.org/10.1016/j.agrformet.2021.108712
2022	BOREALFIRE	Scientific journal	Threshold responses of canopy cover and tree growth to drought and Siberian silk moth outbreak in southern taiga <i>Picea obovata</i> forests	<i>Forests</i> 13(5), 768	J. Julio Camarero, Tatiana A. Shestakova, Manuel Pizarro		https://doi.org/10.3390/f13050768
2022	BYOSOIL	Abstract in scientific meeting	Soil microbial responses to long-term warming experiments in alpine <i>Dryas octopetala</i> heath	<i>FEMS Conference on Microbiology, 30 June-2 July 2022, Belgrade, Serbia</i>	F. D'Alò, S. Onofri, R.E. Roos, G. Tosadori, K. Klanderud, J. Voriskova		
2022	CHECOMSCHA	Scientific journal	Headwater chemistry in subarctic areas with different plant communities (Finnish Lapland)	<i>Episodes</i> 2023; 46(2): 239-257	Eliza Płaczkowska, Katarzyna Wasak-Sęk, Mirosław Żelazny, Łukasz Jelonkiewicz, Ilkka Syvänperä, Riku Paavola, Katja Sippola, Rauni Partanen, Michael Leuchner		https://doi.org/10.18814/epiugs/2022/022026

2022	CRYPTOSOIL	Scientific journal	Current radioactive fallout contamination along a trans-European gradient assessed using terricolous lichens	<i>Chemosphere</i> , 304: 135281	M. Saniewskia, P. Wietrzyk-Pełka, T. Zalewska, M.H. Węgrzyn	https://www.sciencedirect.com/science/article/pii/S004565352201774X	https://doi.org/10.1016/j.chemosphere.2022.135281
2022	Deep Sense	Scientific journal	Topology and spatial-pressure-distribution reconstruction of an englacial channel	<i>The Cryosphere</i> , 16, 3669–3683, 2022	Laura Piho, Andreas Alexander, Maarja Kruusmaa	https://tc.copernicus.org/articles/16/3669/2022/tc-16-3669-2022.html	https://doi.org/10.5194/tc-16-3669-2022
2022	Deep Sense	Scientific journal	Subsurface Flow Path Modeling From Inertial Measurement Unit Sensor Data Using Infinite Hidden Markov Models	<i>IEEE Sensors Journal</i> 22.1 (2021): 621-630.	Laura Piho, Maarja Kruusmaa	https://ieeexplore.ieee.org/abstract/document/9618871	https://doi.org/10.1109/JSEN.2021.3128838
2022	FESTUCA	Scientific journal	Epichloë endophyte-promoted seed pathogen increases host grass resistance against insect herbivory.	<i>Frontiers in Microbiology</i> 12: 786619	M. Laihonon, K. Saikkonen, M. Helander, B.R. Vázquez de Aldana, I. Zabalgogezcoa, B. Fuchs		https://doi.org/10.3389/fmicb.2021.786619
2022	GLACIGREEN	Scientific journal	Late Glacial deglaciation of the Zackenberg area, NE Greenland	<i>Geomorphology</i> 401: 108125 (2022).	J. García-Oteyza, M. Oliva, D. Palacios, J.M. Fernández-Fernández, N. Andrés, I. Schimmelpfennig, D. Antoniadis, H. Christiansen, O. Humlum, J. Ruiz-Fernández, ASTER Team	https://www.sciencedirect.com/science/article/pii/S0169555X22000186	https://doi.org/10.1016/j.geomorph.2022.108125
2022	LABSOCS	Scientific journal	Whole-crown 13C-pulse labelling in a sub-arctic woodland to target canopy-specific carbon fluxes	<i>Trees</i> 36: 1437–1445 (2022).	Nina L. Friggens, Iain P. Hartley, Helen K. Grant, Thomas C. Parker, Jens-Arne Subke, Philip A. Wookey	https://link.springer.com/article/10.1007%2Fs00468-022-02267-3	https://doi.org/10.1007/s00468-022-02267-3
2022	REACT	Scientific journal	Anatomical changes in dwarf shrub roots provide insight into aeolian erosion rates in northeastern Iceland	<i>Geoderma</i> 428, 116173	P. Owczarek, P. Dagsson-Waldhauserova, M. Opała-Owczarek, K. Migala, Ó. Arnalds, R.J. Schaetzl		https://doi.org/10.1016/j.geoderma.2022.116173
2022	REACT	Scientific journal	Climatic Signals on Growth Ring Variation in <i>Salix herbacea</i> : Comparing Two Contrasting Sites in Iceland	<i>Atmosphere</i> 13, Issue 5	M. Phulara, M. Opała-Owczarek, P. Owczarek		https://doi.org/10.3390/atmos13050718
2022	SnowVeg	Scientific journal	Winters are changing: snow effects on Arctic and alpine tundra ecosystems	<i>Arctic Science</i> . 8(3): 572-608.	C. Rixen et al.		https://doi.org/10.1139/as-2020-0058
2022	SoilTemp	Scientific journal	Hiking trails shift plant species' realized climatic niches and locally increase species richness	<i>Diversity and Distributions</i> , 28(7), 1416-1429.	R.E. Wedegärtner, J.J. Lembrechts, R. Van Der Wal, A. Barros, A. Chauvin, I. Janssens, B.J. Graae		https://doi.org/10.1111/ddi.13552

2022	SoilTemp	Scientific journal	Think globally, measure locally: The MIREN standardized protocol for monitoring plant species distributions along elevation gradients	<i>Ecology and evolution</i> , 12(2), e8590.	S. Haider, J.J. Lembrechts, K. McDougall, A. Pauchard, J.M. Alexander, A. Barros, ..., T. Seipel	https://doi.org/10.1002/ece3.8590
2022	SoilTemp	Scientific journal	Soil chemistry, temperature and bacterial community composition drive brGDGT distributions along a subarctic elevation gradient	<i>Organic Geochemistry</i> , 163, 104346.	R. Halfman, J. Lembrechts, D. Radujković, J. De Gruyter, I. Nijs, C. De Jonge	https://doi.org/10.1016/j.orggeochem.2021.104346
2022	TRANSGREEN	Scientific journal	Permafrost Thermal Dynamics and Cryostratigraphy at Villum Research Station, Station Nord, Eastern North Greenland (81° N).	<i>Journal of Geophysical Research, Earth Surface</i> , 127, e2021JF006502.	Sarah M. Strand, Hanne H. Christiansen, Graham L. Gilbert	https://doi.org/10.1029/2021JF006502
2022	VegClim	Scientific journal	High resolution species distribution and abundance models cannot predict separate shrub datasets in adjacent Arctic fjords	<i>Diversity and Distributions</i> 28(5): 956–975 (2022).	Nathalie Isabelle Chardon, Jacob Nabe-Nielsen, Jakob Johan Assmann, Ida Bomholt Dyrholm Jacobsen, Maya Guéguen, Signe Normand, Sonja Wipf	https://onlinelibrary.wiley.com/doi/10.1111/ddi.13498
2022	VPthaw	Scientific journal	Tundra vegetation change and impacts on permafrost	<i>Nature Reviews Earth & Environment</i> volume 3, pages 68–84 (2022)	M.M.P.D. Heijmans, R.I. Magnusson, M.J. Lara, ..., J. Limpens	https://doi.org/10.1038/s43017-021-00233-0
2022	VPthaw	Scientific journal	Extremely wet summer events enhance permafrost thaw for multiple years in Siberian tundra	<i>Nature Communications</i> 13: 1556 (2022).	R.I. Magnusson, A. Hamm, S.V. Karsanaev, ..., M.M.P.D. Heijmans	https://doi.org/10.1038/s41467-022-29248-x
2022	VPthaw	Scientific journal	Circum-Arctic distribution of chemical anti-herbivore compounds suggests biome-wide trade-off in defence strategies in Arctic shrubs	<i>Ecography</i> 2022(11): e06166 (2022).	E. Linden, M. te Beest, I. Aubreu, R.I. Magnusson, M.M.P.D. Heijmans, J. Limpens, J. Olofsson	https://doi.org/10.1111/ecog.06166
2021	a	Proceedings	Dendrochronological records from tundra shrubs in the vicinity of Samoylov Island	<i>Focus Siberian Permafrost – Terrestrial Cryosphere and Climate Change International Online Symposium Institute of Soil Science, Universität Hamburg, 24 – 25 March 2021</i>	A. Buchwal, G. Rachlewicz, B. Heim	https://doi.org/10.48433/BzPM_0750_2021
2021	AquaFun	Scientific journal	Declining fungal diversity in Arctic freshwaters along a permafrost thaw gradient	<i>Global Change Biology</i> , 27(22), 5889–5906.	Mariana Kluge, Maxime Wauthy, Karina Engelbrecht Clemmensen, Christian Wurzbacher, Jeffrey A. Hawkes, Karolina Einarsdottir, Milla Rautio, Jan Stenlid, Sari Peura	https://doi.org/10.1111/gcb.15852
2021	AquaFun	Scientific journal	Community composition of aquatic fungi across the thawing Arctic	<i>Scientific Data</i> 8: 221 (2021).	Mariana Kluge, Christian Wurzbacher, Maxime Wauthy, Karina Engelbrecht Clemmensen,	https://doi.org/10.1038/s41597-021-01005-7

					Jeffrey Alistair Hawkes, Karolina Einarsdottir, Jan Stenlid, Sari Peura		
2021	ArcticFan	Scientific journal	Baseline data for monitoring geomorphological effects of glacier lake outburst flood: a very-high-resolution image and GIS datasets of the distal part of the Zackenberg River, northeast Greenland	<i>Earth System Science Data</i> , 13(11), 5293–5309.	Aleksandra M. Tomczyk, Marek W. Ewertowski	https://essd.copernicus.org/articles/13/5293/2021/	https://doi.org/10.5194/essd-13-5293-2021
2021	FESTUCA	Scientific journal	Genetic Diversity of the Symbiotic Fungus <i>Epichloë festucae</i> in Naturally Occurring Host Grass Populations	<i>Frontiers in Microbiology</i> 12: 756991 (2021).	M. von Cräutlein, M. Helander, H. Korpelainen, P. Leinonen, B.R. Vázquez de Aldana, C. Young, I. Zabalgogezcoa, K. Saikkonen		https://doi.org/10.3389/fmicb.2021.756991
2021	GRASP	Scientific journal	Accumulation of legacy fallout radionuclides in cryoconite on Isfallsgläciären (Arctic Sweden) and their downstream spatial distribution	<i>The Cryosphere</i> , 15, 5151-5168	Caroline C. Clason, Will H. Blake, Nick Selmes, Alex Taylor, Pascal Boeckx, Jessica Kitch, Stephanie C. Mills, Giovanni Baccolo, Geoffrey E. Millward		https://doi.org/10.5194/tc-15-5151-2021
2021	IME4Rad	Scientific journal	Effect of Forest Canopy Structure on Wintertime Land Surface Albedo: Evaluating CLM5 Simulations With In-Situ Measurements	<i>Journal of Geophysical Research: Atmospheres</i> 126(9): (2021).	Johanna Malle, Nick Rutter, Clare Webster, Giulia Mazzotti, Leanne Wake, Tobias Jonas	https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2020JD034118	https://doi.org/10.1029/2020JD034118
2021	IME4Rad	Scientific journal	Increasing the Physical Representation of Forest-Snow Processes in Coarse-Resolution Models: Lessons Learned From Upscaling Hyper-Resolution Simulations	<i>Water Resources Research</i> 57(5): (2021).	Giulia Mazzotti, Clare Webster, Richard Essery, Tobias Jonas	https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2020WR029064	https://doi.org/10.1029/2020WR029064
2020	a	Scientific journal	Divergence of Arctic shrub growth associated with sea ice decline	<i>Proceedings of the National Academy of Sciences of the United States of America</i> , 117(52), 33334–33344.	A. Buchwal, P.F. Sullivan, M. Macias-Fauria, E. Post, I. Myers-Smith, J.C. Stroeve, ..., J.M. Welker		https://doi.org/10.1073/pnas.2013311117
2020	ASAP GL	Scientific journal	Hop-on, hop-off: the first record of the alien species crescent-marked lily aphid (<i>Neomyzus circumflexus</i>) (Insecta, Hemiptera, Aphididae) in Greenland	<i>Polar Research</i> , 39(0).	Karina Wiczorek, Dominik Chłond		https://doi.org/10.33265/polar.v39.3710
2020	BLACK	Book	Atmosphere – Cryosphere Interaction in the Arctic, at High Latitudes and Mountains With Focus on Transport, Deposition and Effects of Dust, Black Carbon, and Other Aerosols.	<i>Frontiers Media SA. ISSN 1664-8714, ISBN 978-2-88963-504-7, e-book.</i>	P. Dagsson-Waldhauserova, O. Meinander		https://doi.org/10.3389/978-2-88963-504-7

2020	Deep Sense	Scientific journal	Pressure and inertia sensing drifters for glacial hydrology flow path measurements	<i>The Cryosphere</i> , 14, 1009–1023, 2020	Andreas Alexander, Maarja Kruusmaa, Jeffrey A. Tuhtan, Andrew J. Hodson, Thomas V. Schuler, Andreas Kääh	https://tc.copernicus.org/articles/14/1009/2020/	https://doi.org/10.5194/tc-14-1009-2020
2020	FESTUCA	Scientific journal	Variation and plasticity in Epichloë alkaloid content of Festuca rubra across Europe	<i>Fungal Ecology</i> 47: 100942	B.R. Vázquez de Aldana, P. Leinonen, I. Zabalgoatzea, M. Helander, K. Saikkonen		https://doi.org/10.1016/j.funeco.2020.100942
2020	IME4Rad	Scientific journal	Process-Level Evaluation of a Hyper-Resolution Forest Snow Model Using Distributed Multisensor Observations	<i>Water Resources Research</i> 56(9): (2020).	Giulia Mazzotti, Richard Essery, Clare Webster, Johanna Malle, Tobias Jonas	https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2020WR027572	https://doi.org/10.1029/2020WR027572
2020	REACT	Scientific journal	Re-activation of landslide in sub-Arctic areas due to extreme rainfall and discharge events (the mouth of the Great Whale River, Nunavik, Canada)	<i>Science of the Total Environment</i> , 744	P. Owczarek, M. Opała-Owczarek, S. Boudreau, P. Lajeunesse, Ł. Stachnik		https://doi.org/10.1016/j.scitotenv.2020.140991
2020	REACT	Scientific journal	Influence of climatic conditions on growth rings of Salix uva-ursi Pursh from the southeastern shore of Hudson Bay, Subarctic Canada	<i>Arctic, Antarctic, and Alpine Research</i> , 52, 1, 87 - 102	M. Opała-Owczarek, P. Owczarek, E. Łupikasza, S. Boudreau, K. Migala		https://doi.org/10.1080/015230430.2020.1722397
2019	AirMiMic	Scientific journal	Active and dormant microorganisms on glacier surfaces	<i>Geobiology</i> 21(2): (2023).	James A. Bradley, Christopher B. Trivedi, Matthias Winkel, Rey Mourot, Stefanie Lutz, Catherine Larose, Christoph Keuschnig, Eva Doting, Laura Halbach, Athanasios Zervas, Alexandre M. Anesio, Liane G. Benning		https://doi.org/10.1111/gbi.12535
2018	a	Proceedings	Dendrochronological potential of tundra shrubs in the vicinity of Samoylov Island	<i>International Symposium 20 Years of Lena Expeditions; 17-19.10.2018, Saint Petersburg, Russia.</i>	A. Buchwal, G. Rachlewicz, B. Heim	https://www.awi.de/en/science/geosciences/permafrost-research/conferences/international-symposium-20-years-of-lena-expeditions.html	
2017	TRANSGREEN	Annual report	Transgreen activities at Villum Research Station in 2017	Villum Research Station, Station Nord, Annual report 2017, p 14-17	Ole Humlum, Wesley Randall Farnsworth, Sarah Marie Strand		https://villumresearchstation.dk/fileadmin/villumresearchstation/AnnualReports/VRS2017



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