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ACAP	1.2 Arctic Green Shipping - SLCP Mitigation	The project aims to reduce atmospheric emissions of SLCPs from river shipping in northern regions of the Russian Arctic. In addition, the project seeks to decrease atmospheric emissions and water discharges of local pollutants and contaminants. Best practices could be replicated in other regions of the Arctic.	On track	The completion report for Phase 1 of the Pilot Project for Reducing CO2 and Black Carbon Emissions on the Rivers of the Arctic Zone of the Russian Federation is being finalized, and on 26 January the PSC held a meeting to agree on recommendations regarding Phase 2, including possible investments.	RUS	
ACAP	1.3 Arctic Black Carbon Case Studies Platform (SLCP EG)	Through this project, EPA will work with its partners in ACAP to present a catalogue of black carbon mitigation efforts – a set of standardized case studies or “snapshots” – to capture the variety of interventions and policy tools that can reduce black carbon emissions.	On track	Currently, there are more than 70 case studies highlighted. Countries are invited to add new case studies to the Arctic Environmental Response Management Application (Arctic ERMA) site and develop new showcase studies. Increased outreach will also be undertaken by Arctic States, PPs and Arctic Council Observers to gather more case studies that demonstrate the effectiveness of projects that reduce black carbon emissions in the Arctic. The expert group encourages Arctic Council Observers to submit case studies for inclusion in the platform. Project leads are working with EGBCM contacts to introduce emissions inventories to the platform and to develop social media and outreach communication relevant to black carbon work in the Arctic.	USA	New cases studies
ACAP	1.6 Phase-out of ozone-depleting substances and fluorinated greenhouse gases (HFC) at fish and seafood processing enterprises (SLCP EG)	The project has two main objectives. The first is to phase out hydrochlorofluorocarbons and hydrofluorocarbons at one of the fish and seafood processing enterprises of the Murmansk oblast. The second is to transfer ozone and climate-safe technologies to onshore fish and seafood processing enterprises that use hydrochlorofluorocarbons and hydrofluorocarbons in refrigeration and air-conditioning equipment, enterprises engaged in repair and after-sales service of onboard refrigeration and air-conditioning equipment in the Murmansk oblast, and initiate their conversion to environmentally safe refrigerants. The project will enable phase-out of approximately 18.65 ODP t of ODS and reduction of greenhouse gas emissions by 308 t CO2-eq. within 5 years through diminishing consumption of ODS and F-gases and adopting new energy efficient low GWP technologies and substances. Additionally, the project will disseminate lessons learned from the implementation of the Project to other sectors of the Murmansk oblast, fishing industry of the Arctic zone of the Russian Federation (AZRF) and of the Russian Federation (RF).	On track	A Project Implementation Agreement was signed on 31 January 2020 between NEFCO and ICSTI (International Council for Scientific and Technical Information) as the Implementing Agency (IA). The IA's work has progressed according to plan with a visit to Murmansk before the lockdowns due to COVID-19. The Project Supervising Committee is operational. The project is waiting for the approval of one of its beneficiaries. NEFCO is in the final stages of agreeing to contractual set-up and wording. Several procurements are expected to follow in February 2021.	RUS	
ACAP	1.7 Mitigation of black carbon and methane emissions from APG flaring in the Arctic zone of the Russian Federation	The Project seeks to improve knowledge on black carbon and methane emissions in the Russian Arctic, with emphasis on the oil and gas sector, and spur enhanced actions to reduce emissions.	Completed	The project is completed. To further highlight the economic and environmental benefits of mitigating emissions of SLCPs from APG flaring, ACAP is planning to produce a video aimed at promoting best practices in the oil and gas industry with respect to the flaring of associated petroleum gas (APG). The script is currently being finalized by ACAP. Moreover, new project ideas in this area have been provided to the EG SLCP for further consideration.	RUS	1) Report on the Webinar on Black Carbon and Methane Emissions from the Oil and Gas Sector with recommendations; 2) a project video.

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ACAP	2.2 Mercury Control Technology Workshop (POPS/mercury EG)	<p>This Workshop project is intended to disseminate results and encourage replication of successful mercury emissions reduction approaches, including the results from a US-led pilot project, conducted in cooperation with various Russian institutes, UNEP and Sweden, completed in 2014, on carbon sorbent technologies* at a coal-fired power plant in Cherepetskaya, Russia. The project is designed to have a complementary function to a GEF-funded project, being implemented by the Russian Federation and UNEP, comprising a mercury emission inventory and the drafting of a Minamata Action Plan. In addition to coal combustion, the workshop would address other key sectors for emissions reductions including non-ferrous metals smelting and gold mining. The Project Steering Group on Mercury developed a proposal for a project focusing on disseminating and replicating results.</p> <p>* (Standard activated carbon and bromated carbon injection; the project also investigated the stability of sorbent-containing fly ash residues and the leaching potential of metals.)</p>	Awaiting Info		RUS, USA	
ACAP	2.6 Promotion of decrease of the Barents region pollution by introduction of BAT	The project goal is to prevent and decrease Arctic pollution based on the BAT knowledge delivery to enterprises and universities, facilitating environmental investments in the area. Includes a feasibility study, development of a continuously operating education systems for experts and authorities, workshops and seminars to distribute findings.	On track	The implementation of the P3.2 – Promotion of Decreased Pollution in the Arctic Region with the Introduction of Best Available Techniques (BAT) project is expected to start in spring 2021, after the study reservation has been lifted in December 2020.	RUS, SWE	
ACAP	2.7 ARCRISK - Mercury Risk Evaluation, Risk Management and Risk Reduction Measures in the Arctic	The aim of this project is to develop an action plan with targeted risk reduction measures for mercury releases from key sources in the Arctic. The project is comprised of 6 work packages that include the following list of activities: inception, mercury source inventory, risk evaluation of mercury and multiple stressor impacts, demonstration of sound reduction measures, stakeholder involvement, capacity building and dissemination, and project management.	On track	The ARCRISK - Mercury Risk Evaluation, Risk Management, and Risk Reduction Measures in the Arctic project received PSI funding for Work Package #2. The decision of the PSI Committee on work packages 3-6 is expected at its next meeting on 15 March 2021, after dialogue between the U.S., Norway and NEFCO. The aim of this project is to develop an action plan with targeted risk reduction measures for mercury releases from key sources in Canada, Norway and Russia.	NOR	
ACAP	2.8 P2 Inventory of uses of POPs and Mercury and their Emission Sources in Murmansk Region	There is not sufficient information on uses and sources of POPs and mercury in many regions in Russia to meet with the information requirements for effective implementation of SC and MC. In addition, more information is needed to facilitate ratification of POPs listed in 2009-2017 as well as ratification of Minamata Convention. Murmansk region has a wide range of activities that potentially use and/or release POPs and mercury, but the extent is not known. The project is proposed to collect the existing information on uses and releases, identifies gaps that could be filled in through analyses. The outcome of the inventory will support Russian implementation of SC and MC. The result will also be used to identify efficient means to reduce releases of these pollutants. In the demonstration phase the efficacy of these measures is demonstrated at sites/facilities that will be identified based on inventory information developed in stages 1-3.	On track	Implementation of the project P2 - Inventory of uses of POPs and Mercury and their Emission Sources in Murmansk Region has started after some challenges with contracting. This project is focused on promoting installation of control techniques aiming at limiting/eliminating release of POPs and Mercury.		
ACAP	3.2 Demonstration of management and destruction of 250 tons of PCB in transformers: Phase III (Hazardous Waste EG)	PCB Project addresses mitigation of the PCB problem in RF. The aim is to destroy 250 tons of PCB via two sub-projects: 1. Emptying and cleaning contaminated PCB containing transformers; 2. Destruction of PCB. The method can also be used to destroy other hazardous pollutants e.g. certain types of pesticides. This project is part of a larger GEF/UNIDO/Russian Railways Project, which is due to end in 2019.	Delayed	The project is delayed pending completion of the UNIDO-GEF-Russian Railways PCB project, which has been extended until the second quarter of 2021.	FIN, RUS	

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ACAP	3.3 Demonstration of Rapid Environmental Assessment of Pesticides Contaminated Sites (Hazardous Waste EG)	The project demonstrates a cost-effective and rapid technique to screen levels and scope of contamination at old pesticide storage sites using a methodology that the Blacksmith Institute developed for the UN Food and Agriculture Organization (FAO). The method can help to assess the environmental and health risks caused by hundreds of old pesticides storages in Northern Russia. The project closely follows on Russian implementation of Stockholm Convention on POPs.	Completed	The project is completed. As there were some cost savings during the implementation of the REA project, the EG on Waste is planning to develop a Workshop on the REA Project results and other waste management issues, which can be held in fall 2021 in Arkhangelsk, Russia.	FIN, NOR, SWE	Report demonstrating Rapid Environmental Assessment technique to evaluate human health and environmental threats of pesticides storage facilities in three Arctic Regions of Russian Federation.
ACAP	3.4 Dudinka Municipal Waste Land-fill project	Dudinka city landfill is located on permafrost about 500m from the Yenisey River in Krasnoyarsk Krai. The project aims to assess environmental impacts of the landfill and develop remediation technology. The work will include a survey of existing approaches, implementation of remediation, identification of other sites to replicate the methodologies and introduction of best available technologies for rehabilitation of MSW landfills.	On track	Moscow based consultant EIPC is working on the project proposal on a grant received from PSI. The first draft of Phase 0 report has been submitted to the EG for review and comments by the end of January 2021. The outcomes of Phase 0 were presented at the ACAP WG meeting in January.	RUS	
ACAP	3.5 Phase-out and Environmentally Sound Management of Fire-fighting Foams Containing Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) in the Arctic Region	This new ACAP project is a follow-up to the AMAP report on Chemicals of Emerging Arctic Concern. Phase 1. Background study on legislation related to PFOS, PFOA and other PFAS in the Arctic States, existing experience on phase-out of fluorinated AFFF and remediation of PFAS contaminated sites, identifying the potential stakeholders. Based on this, inventories on Arctic locations to identify sites that have, or have had, large stockpiles PFAS substances will be made. This should be followed up by a more comprehensive identification and mapping of risk areas where soil and ground water contamination may have happened and thus would serve as a sources of PFAS exposure of humans and environment in the Arctic (such as airports, refineries, fire-fighting training areas). Contaminated site inventory can be helpful in order to identify where there is a need for interim measures such as providing more safe alternatives to current drinking water.	On track	The Phase-out and Environmentally Sound Management of Fire-fighting Foams Containing Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) in the Arctic Region project received PSI funding in December 2020 and the implementation is expected to start in spring 2021. NEFCO is currently working on recruiting a consultant.	FIN	
ACAP	4.1 Circumpolar Local Environmental Observers (CLEO) Network (IPCAP)	The Arctic Council will expand the coverage of an existing Alaska-based monitoring tool, the Local Environmental Observer network (LEO) that links traditional knowledge and scientific analysis, across the Arctic. Trained traditional knowledge experts are able to record their observations in the LEO database. These observations are reviewed by the Alaska Native Tribal Health Consortium (ANTHC), which serves as a secretariat. ANTHC is able to share observations of concern with regulators, academics and others who can in turn provide technical assistance to local communities when needed. During Phase I of the project, ACAP will create a North American CLEO "Hub", including indigenous communities in the Alaskan and Canadian Arctic for delivery to the 2017 Ministerial. In addition, we will explore the development of a framework for expansion of the CLEO to the Nordic region. Phase II of the project is to establish a CLEO Hub in the Nordic region, as appropriate and explore options for linking with Russian indigenous communities. Phase III of the project will look at interoperability of the CLEO Hubs and/or related observational networks. The CLEO project is also captured in the Resilience project description.	On track	The Circumpolar Local Environment Observer Network (CLEO) project has made good progress in the Sapmi area across borders of Sweden, Finland and Norway, and establishment of a CLEO hub in Kautokeino, Norway. Continued work is undertaken in Alaska and Canada. Upcoming work under the Circumpolar LEO Initiative will focus on the youth component, which includes activities in Sápmi and in the Far East of Russia. The latter were postponed due to the COVID-19 pandemic.	CAN, USA	A Report on the progress of the CLEO Initiative with focus on Sapmi.

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ACAP	4.2 Community-based black carbon and public health assessment (IPCAP)	This project, which is a collaboration of the AIA, Arctic Alliance, Alaska Native Science Commission, University of Alaska-Anchorage, and the University of Alaska-Fairbanks, with support from the Swedish Environmental Protection Agency, will: assess, on a pilot basis, local sources of black carbon emissions from a representative sampling of Arctic Alaskan and Russian villages; provide a broad characterization of associated risks to public health; explore short and long-term mitigation options; assess and, where possible, strengthen local capacities to identify, mitigate and prevent black carbon pollution; draft a framework tool for community-based assessments of black carbon emissions and health risks; and educate local communities about black carbon emissions and risks.	On track	The Community-Based Black Carbon and Public Health Assessment (Phase 2) project was approved for PSI funding in December 2020, and the project leads are starting conversations with NEFCO on its implementation.	USA, AIA	
ACAP	4.3 Kola Waste project	This local project, initiated and lead by the Saami Council, was approved in spring 2018 and got financial and in-kind support from Norway and Sweden. The goal of the project is to identify and make an inventory of sources of pollution from illegal unauthorized waste disposal in the Saami territory of the Murmansk region, with the aim of cleaning up the territory in the future. The waste in question can include barrels used for storage of petroleum products; scrap metal from old abandoned equipment, buildings or other constructions; as well as solid waste accumulated over many decades in the Saami territory.	On track	Kola Waste Project, led by the Saami Council and funded by Sweden and Norway, has made good progress. In 2019-2020, Saami Association of the Murmansk Region (OOSMO) cleaned up several large and small unauthorized open solid waste dumpsites in Lovozero, Revda and Krasnoshchelye (Murmansk Oblast, Russia). During winter 2019/2020 the collected waste was transported to a properly managed landfill. In February 2021, OOSMO has started the backhaul of the rest of collected waste from Krasnoshchelye to Lovozero. Project activities also included meetings with municipal administration and awareness-raising events for local residents. The project report is one of the deliverables for the 2021 Ministerial meeting. The IPCAP EG is planning to organize a Kola Waste Outreach Webinar and Educational Virtual (or physical) Tour during the next half a year depending on the situation around the COVID-19 pandemic. This tour also aims at mobilizing schools and local communities in the CLEO network.	Saami Council, SWE, NOR	Kola Waste Project Report (and possibly a video)
ACAP	4.4 Solid Waste Management in Remote Arctic Communities	Building upon previous ACAP work, the project seeks to collaborate with the SDWG to share expertise and leverage resources in scaling up solid waste management activities.	On track	ACAP approved Solid Waste Management in Remote Arctic Communities project proposal at its meeting in September 2020. It was also endorsed by SDWG. An application for PSI funding has been submitted by SDWG and ACAP to the PSI Committee for consideration at its meeting in November. Norway will co-lead the project together with AIA. The project design has taken into account COVID-19 considerations. The project is waiting for clarification of positions of some PSI members. A decision of the PSI Committee is expected at its next meeting on 15 March 2021.	USA, CAN, AIA, Saami Council, SWE	
AMAP	02. Air Pollution, including SLCFs	2019/21: Integrated assessment of air pollution with focus on SLCFs (Some delays but still plan delivery in 2021)	On track		CAN, FIN, NOR, USA	Summary for Policymakers and Scientific background report
AMAP	03. Human Health and combined effects	Further develop AMAP initiative on human health, particularly biomonitoring and cohort studies and health effects of contaminants. HHAG has finalized an update assessment of POPs and Hg exposure and health effects, as well as a review of dietary transitions and their health effects; HHAG has also updated AMAP guidelines for circumpolar monitoring of contaminants. New work will include studies of zoonoses and contaminant-mediated immunosuppression.	On track		CAN, KOD	Assessment report; SPM
AMAP	04. Unmanned Aircraft Systems (UAS)	Continue work on safety guidelines and demonstrate the use of cross-jurisdictional environmental monitoring	On track		NOR, USA	
AMAP	05. Contaminant issues: Radioactivity	Continuing review of the radioactivity status of the Arctic. Assessment report by 2023.	On track		NOR, RUS	

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AMAP	06. Contaminant issues: POPs and mercury	<p>AMAP's POPs and mercury expert groups will produce updated assessment components as follows:</p> <p>(1) 2019/20: Update assessment on Climate Change - POPs Interactions for delivery in 2021 (Some delays but still plan delivery in 2021)</p> <p>(2) 2019/21: Update of 2011 Mercury assessment for delivery in 2021 (Some delays but still plan delivery in 2021)</p> <p>(3) 2019/20: Contributions to Stockholm and Minamata Convention Effectiveness Evaluations (Completed for current round of EE)</p>	On track		CAN, KOD, SWE	(1) and (2) Summary for Policymakers and Scientific background report; (3) Data products and contributions to report
AMAP	07. Sustaining Arctic Observing Networks (SAON)	<p>SAON's vision is a connected, collaborative, and comprehensive long-term pan-Arctic Observing System that serves societal needs. SAON's mission is to facilitate, coordinate, and advocate for coordinated international pan-Arctic observations and to mobilize the support needed to sustain them.</p>	On track		ICE, NOR, USA, CAN, FIN, KOD, RUS, SWE, ICC	
AMAP	08. AMAP Trends and Effects Programme	<p>AMAP is conceived as a process integrating both monitoring and assessment activities, in order to: produce integrated assessment reports on the pollution and climate status and trends of the conditions of Arctic ecosystems; identify possible causes for changing condition detect emerging problems, their possible causes, and the potential risk to Arctic ecosystems including indigenous peoples and other Arctic residents; recommend actions required to reduce risks to Arctic ecosystems.</p>	On track		CAN, FIN, ICE, KOD, NOR, RUS, SWE, USA, AAC, AIA, GCI, ICC, RAIPON, Saami Council	
AMAP	10. Climate Issues: Cryosphere, meteorology, ecosystem impacts	<p>Climate work continues to contribute to IPCC AR6 Report and preparation of a report that includes chapters on key climate indicators, extreme events, Arctic/mid-latitude weather connections and performance of global models in the Arctic, with greater contribution from the meteorology community. Scoping work initiated to evaluate impacts of climate change on Arctic marine and terrestrial ecosystems and ecosystem feedbacks to climate, with CAFF. Work initiated on societal impacts of climate change, with strong participation of PPs; this will develop into a broader assessment activity in the 2021-2023 work plan. Develop materials for outreach.</p>	On track		NOR, SWE, USA	Climate issues of concern report; SPM
AMAP	13. Arctic marine microplastics and litter	<p>AMAP is following up on PAME's Desktop Study on Marine Litter including Micro-plastics in the Arctic and the recommendation to develop a regional action plan on marine litter in the Arctic; AMAP's contribution is to develop the monitoring programme and guidelines to accompany the mentioned action plan.</p>	On track		CAN, NOR	

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CAFF	01. Circumpolar Biodiversity Monitoring Program (CBMP) - General	<p>- The CBMP is a flagship program of the CAFF working group and an ongoing monitoring program that has received international recognition</p> <p>- The CBMP is the biodiversity component of the Sustaining Arctic Observing Network (SAON) and is the official Arctic biodiversity network of the Global Earth Observation's Biodiversity Observation Network (GEOBON).</p> <p>- CBMP activities are structured around the major Arctic ecosystem: marine, freshwater, terrestrial and coastal.</p> <p>- The plans help improve ability to detect important trends, link these trends to their underlying causes, predict future trends and scenarios for Arctic biodiversity, and thereby provide more timely and credible information to support decision making.</p> <p>- The CBMP endeavours to include IK holder expertise from the inception of projects to the analysis of information gained. It also seeks to include a diverse network of experts with both science and IK expertise.</p>	On track	CBMP Strategic plan 2021-2025 approved by the CAFF board at the CAFF biennial and being submitted to the SAOs for approval	KOD, USA	CBMP Strategic Plan 2021-2025
CAFF	01.1 CBMP Marine Biodiversity Monitoring group	<p>- The Arctic Marine Biodiversity Monitoring Plan was delivered in 2011 and is the first of four pan-Arctic biodiversity monitoring plans developed by the CBMP to improve the ability to detect and understand the causes of long-term change in the composition, structure and function of Arctic ecosystems. Since the delivery of the Marine Plan further work is underway to continue to assess the state of the ecosystem and national implementation.</p> <p>• The CBMP endeavours to include TK holder expertise from the inception of projects to the analysis of information gained. It also seeks to include a diverse network of experts with both science and TK expertise.</p> <p>The State of the Arctic Marine Biodiversity Report was released in 2017. Updates completed for 2021 Sea birds and Marine Mammals</p>	On track	Updates from Marine Mammals and Sea Birds submitted for the SAO March meeting	KOD, ICE	SAMBR Update for Marine Mammals and Sea birds
CAFF	01.2 CBMP Freshwater Biodiversity Monitoring group	Contribute to the Implementation of the ARIAS Strategy and Action Plan (2017) by improving the knowledge base for work in CAFF and PAME on specific actions in ARIAS that focus on the risk for potential transfer of alien invasive species by ships via ballast water (BW) and biofouling (BF) into and within Arctic waters.	Completed	Actions for Biodiversity: Implementation of the Arctic Biodiversity Assessment (ABA) Recommendations: Progress Report submitted for the March SAO meeting	SWE, NOR, KOD	Actions for Biodiversity: Implementation of the Arctic Biodiversity Assessment (ABA) Recommendations: Progress Report

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CAFF	01.3 CBMP Terrestrial Biodiversity Monitoring group	<ul style="list-style-type: none"> The Arctic Terrestrial Biodiversity Monitoring Plan is one of four pan-Arctic biodiversity monitoring plans developed by the CBMP to improve the ability to detect and understand the causes of long-term change in the composition, structure and function of Arctic ecosystems. Since the delivery of the terrestrial plan further work is underway to continue to assess the state of the ecosystem and national implementation. The CBMP endeavours to include TK holder expertise from the inception of projects to the analysis of information gained. It also seeks to include a diverse network of experts with both science and TK expertise. <p>The Terrestrial Biodiversity Monitoring Group has finalized the State of the Arctic Terrestrial Biodiversity Report (START) and it has been approved by the CAFF board February 2021 for delivery to the SAOs.</p>	On track	START report approved by the CAFF board February 2021 and sent to the SAOs	ICE, USA	State of the Arctic Terrestrial Biodiversity Report (START) Full scientific report & START Summary for Policy Makers
CAFF	01.4 CBMP Coastal Biodiversity Monitoring Plan	<ul style="list-style-type: none"> The Arctic Coastal Biodiversity Monitoring Plan is the final of four pan-Arctic biodiversity monitoring plans being developed by the CBMP to improve the ability to detect and understand the causes of long-term change in the composition, structure and function of Arctic ecosystems. The CBMP endeavors to include TK holder expertise from the inception of projects to the analysis of information gained. It also seeks to include a diverse network of experts with both science and TK expertise. 	On track		CAN, USA	
CAFF	01.5 CBMP Indicators	<ul style="list-style-type: none"> The CBMP has chosen a suite of indices and indicators that provide a comprehensive picture of the state of Arctic biodiversity – from species to habitats to ecosystem processes to ecological services. These are being developed through expert consultation processes. The CBMP endeavors to include TK holder expertise from the inception of projects to the analysis of information gained. It also seeks to include a diverse network of experts with both science and TK expertise. 	On track			CBMP headline indicators: Protected Areas Update
CAFF	02. Nomadic herders: enhancing resilience of pastoral ecosystems and livelihoods	<p>Project at risk/delayed because release of Global Environment Fund (GEF) funding remains stalled</p> <ul style="list-style-type: none"> Purpose of this project is to strengthen the sustainability of the pastoralist livelihoods; and to increase the resilience and capacity of the nomadic communities to adapt to change. The project engages TK holders and their information. 	Awaiting Info		RUS, Saami Council	
CAFF	04. Second Arctic Biodiversity Congress	Contribute to the Implementation of the ARIAS Strategy and Action Plan (2017) by improving the knowledge base for work in CAFF and PAME on specific actions in ARIAS that focus on the risk for potential transfer of alien invasive species by ships via ballast water (BW) and biofouling (BF) into and within Arctic waters.	Completed	Actions for Biodiversity: Implementation of the Arctic Biodiversity Assessment (ABA) Recommendations: Progress Report submitted for the March SAO meeting	SWE, NOR, KOD	Actions for Biodiversity: Implementation of the Arctic Biodiversity Assessment (ABA) Recommendations: Progress Report

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CAFF	06. Actions for Arctic Biodiversity 2013-2021: Implementing the recommendations of the Arctic Biodiversity Assessment	<p>Actions for Biodiversity 2013-2021: implementing the recommendations of the Arctic Biodiversity Assessment, is the implementation plan for the Arctic Biodiversity Assessment's 17 recommendations. It is a living document that will be reviewed and updated every two years. The plan is not meant to be exhaustive or to replace working group work plans; rather it is complementary, emphasizing specific actions that address the ABA recommendation.</p> <p>Due to COVID Swedens plan to develop a new Actions for Arctic Biodiversity plan where delayed and the existing plan extend until 2023. In the mean time CAFF will continue to develop the plan under the incoming Finish chairmanship.</p> <p>Actions for Biodiversity 2013-2021: implementing the recommendations of the Arctic Biodiversity Assessment, is the implementation plan for the Arctic Biodiversity Assessment's 17 recommendations. The Arctic Council Ministers agreed to implement the 17 recommendations articulated in the Arctic Biodiversity Assessment: Report for Policy Makers. Implementing the Arctic Biodiversity Assessment (ABA) recommendations requires a combination of building on existing efforts and embarking in new directions.</p>	On track		SWE	Final report and new action plan
CAFF	06.1 Invasive species	<p>Project aims to 1) prevent the introduction of invasive species in Arctic marine, coastal, freshwater, and terrestrial ecosystems, and through establishing a baseline, improve management of on-going invasions using risk-based assessment and management approaches; and 2) develop an invasive species strategy delivered to the 2017 Arctic Council Ministerial, including recommendations for management actions, which might be addressed in subsequent phases of this initiative. Proposed actions/recommendations will be submitted to the CAFF Board for negotiation and approval. CAFF is working with PAME on the marine and coastal components of the strategy.</p>	Awaiting Info		SWE, KOD, NOR	Progress report with specific deliverables to be determined
CAFF	08. Seabird program	<p>CAFF Chair will lead a process to determine ways forward in consultation with the PAME Chair and the Implementation Coordination Group (ICG)</p> <ul style="list-style-type: none"> • The Seabird program promotes, facilitates, and coordinates conservation, management and research activities among circumpolar countries and improves communication between seabird scientists and managers inside and outside the Arctic. • Key activities include work to monitor and assess seabirds (e.g., survival, diets, phenology, and productivity) to explain observed changes in populations as well as provide circumpolar information on the status of seabirds to management agencies in Arctic States. 	On track		FIN	

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CAFF	09. Arctic Flora program	<ul style="list-style-type: none"> •The CAFF Flora Group (CFG) promotes, encourages and coordinates the international conservation of Arctic flora, vegetation, and habitats as well as research activities. It works to enhance the exchange of information on Arctic flora and vegetation and factors affecting the status and trends in Arctic flora species. • A key activity led by the US is the Circumboreal Vegetation Map (CBVM) will develop a global map of the circumboreal forest biome with a common legend. By recognizing the boreal region as a single geo-ecosystem with a common set of cultural, political and economic issues, the CBVM project will be the first detailed vegetation map of the entire global biome. 	Awaiting Info			To be determined
CAFF	10. Conservation of biodiversity in a changing Russian Arctic	<p>Assessment activity</p> <p>*awaiting Global Environment Facility Decision</p>	Delayed		RUS	To be determined
CAFF	11. Arctic Biodiversity Data Service (CAFF)	<ul style="list-style-type: none"> • Develop an online mechanism to house, collect, display and search for Arctic biodiversity related data, maps and graphics for decision making. 	On track			Progress report
CAFF	12. Capacity Building	CAFF has developed “educational tool kits” that communicate information to school children in the Arctic (10- 11 years old) about key Arctic ecosystems and processes.	On track			Progress report with specific deliverables to be determined
CAFF	12.1 Inspiring Arctic Voices	CAFF is supporting two youth initiatives: 1) Arctic Youth Exchange, and 2) Arctic Youth Summit (to be held in association with the Arctic Biodiversity Congress)	On track		USA	CAFF youth engagement strategy for 2021-2025
CAFF	13. Mainstreaming	<p>The purpose of this project is to implement the following recommendation from the Arctic Biodiversity Assessment: “Mainstreaming biodiversity 4. Require the incorporation of biodiversity objectives and provisions into all Arctic Council work and encourage the same for on-going and future international standards, agreements, plans, operations and/ or other tools specific to development in the Arctic.”</p> <p>Implementation of this recommendation requires establishing a clear framework that defines and develops:</p> <ul style="list-style-type: none"> • biodiversity objectives and provisions (also referred to here as biodiversity principles) in the Arctic context; • Practical approaches and tools for incorporating biodiversity principles into Arctic Council work and for broader application as outlined in ABA Recommendation #4. • A mainstreaming case study to consider the incorporation of biodiversity provisions into mining • TEEB Study (Completed): A scoping study on ecosystem services and the application of a TEEB approach and methodology in the Arctic. 	On track		SWE	Mainstreaming Biodiversity in Arctic Mining: Challenges and Proposed Solutions Report

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CAFF	14. Salmon People of the Arctic	<p>Project start delayed due to challenges in securing funding required. The Salmon Peoples of Arctic Rivers (SPAR) will bring together TK holders, scientists and resource agencies to design an assessment of freshwater river systems based on TK. The design of this holistic assessment will focus on "Salmon peoples" as a measure of ecosystem health, and outline future data needs that could contribute to the resilience and adaptation of these peoples and the salmon populations upon which they depend.</p> <p>Awaiting info- longer time required to incorporate feedback review from TK holders</p> <p>Decided at the CAFF meeting February 2020 to change the name of the project to Salmon People of the Arctic instead of Salmon peoples of Arctic rivers as it was more representative of the objectives of the project and more inclusive considering salmon spending large parts of their life in the ocean.</p>	Awaiting Info		AAC, AIA, GCI, ICC, RAIPON, Saami Council	
CAFF	15. Traditional Knowledge and CAFF	This progress report provides a brief progress report on how TK is being approached within CAFF.	On track		USA	Progress report
CAFF	Resilience & Management of Arctic Wetlands	<p>CAFF is undertaking an initiative on enhancing engagement in relation to the roles and functions of Arctic wetlands as a resource to support sustainable development and resilience in Arctic biodiversity, ecosystem services, and the livelihood of indigenous and local peoples. The effects of climate change on Arctic wetlands, their biodiversity and functioning are still little understood but can be expected to be considerable.</p> <p>This project aims to strengthen engagement on the roles and functions of wetlands as a resource to support sustainable development and resilience in the Arctic. The overall project goal is to use insights from scientific analysis to produce recommendations to support policy development and further develop management strategies to conserve biodiversity and ecosystem services that wetlands provide.</p>	On track		SWE	Scoping for Sustainable Management and Resilience of Arctic wetlands: Phase 1 report
EPPR	01. Arctic Rescue	The focus of this project is to elaborate best practices, recommendations and key elements of the emergency risk assessment system and the system for improving safety of potentially hazardous facilities.	On track	EPPR attended the International Prevention and Response Conference in St. Petersburg in October 2019, organized by the RF as an event within this project. Next conference planned to be held in October 2020 in Kaliningrad was postponed, and the current plan is to hold the event in conjunction with EPPR-II meeting in December 2021 hosted by Russian Federation, circumstances allowing.	RUS	
EPPR	02. Development of Safety Systems in Implementation of Economic and Infrastructure Projects	Improvement of industrial and environmental safety related to economic and infrastructural projects (primarily development of hydrocarbons on the Arctic continental shelf and hydrocarbons transportation)	On track	In support of this project, SAR and Oil Spill Response exercises are undertaken annually. Latest exercise was organized in September 2020 by EMERCOM.	RUS	

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
EPPR	08. Maintain and update the operational guidelines attached to the Agreement on Cooperation on Marine Oil Pollution Preparedness and Response	Maintain and update the operational guidelines as required	On track	EPPR and MER EG are working in cooperation with the ACGF to plan and execute the Arctic Guardian/MOSPA 2021 Exercise in April 2021 in an online format. MER EG has finalized an administrative update of the Operational Guidelines and a new version has been approved and uploaded to OAA. The After Action Report of the Joint EPPR-ACGF MOSPA Tabletop Exercise from October 2020 will be submitted as a Ministerial deliverable.	CAN, USA	Joint EPPR-ACGF Arctic Guardian/MOSPA 2020 TTX After Action Report
EPPR	09. Coordination and practical implementation of the SAR agreement (SAR Expert Group)	In March 2015, SAOs expanded EPPR's mandate to include search and rescue (SAR) including followup to the SAR Agreement. In June 2017, EPPR approved the mandate of the SAR Expert Group.	On track	At EPPR-I 2020 meeting, the need to update the SAR Agreement for administrative purposes in accordance with Article 10, and the procedures regarding the update were discussed. SAR EG is looking closer into the details.	FIN, NOR, USA	
EPPR	12. Prevention, Preparedness and Response for Small Communities	Three deliverables were approved by Ministers in May 2017, an interactive map displaying the data from the survey tool, a database of survey responses, and a resource guide in the form of a short brochure to share with small communities. Phase II of the project produced a 10 minutes awareness video on response principles. The video can be viewed as a whole, or in shorter segments. The video was approved by Ministers in May of 2019. In Phase III a second outreach video has been developed.	On track	Project partners US, Canada, AIA and Norway, in cooperation with a production company, have finalized a second outreach video on oil pollution risk and impact to communities, which was launched in December 2020. The video will be a Ministerial deliverable in 2021, and the project will continue with Phase IV and a third video.	CAN, KOD, NOR, USA, AIA	A second outreach movie on oil pollution risk and impact to communities will be submitted as a deliverable.
EPPR	14. Development of a Database of Arctic Response Assets	The project created a stand-alone, searchable database of major response assets in the Arctic. In June 2017, EPPR discussed next steps and agreed: to assess the database for use in country contingency planning and emergency response purposes, to use the database during future MOSPA exercises to test viability in requests for assistance, that the MER EG and SAR EG work together to explore options towards updating the database, including the possibility of migrating it to a agreed upon live platform. At the EPPR II meeting in 2018 in NOLA, the WG decided to remove the topic from future EPPR agendas, but that the MER EG will review the subject every two years, in this case December 2020 or as appropriate.	On track		USA	
EPPR	15. ARCSAFE	(Full title: EPPR Cross Country Cooperation Network to Improve Emergency Prevention, Response and the Safety of Rescue Workers in Case of a Maritime Accident Involving a Potential Release of Radioactive Substances in the Arctic) ARCSAFE is a radiological project promoting cross-border prevention, preparedness and handling of maritime incidents or accidents which may involve a potential release of radioactive substances. Beneficiaries of project	Completed	Project has been working in a similar manner as an EG, and the decision has been made to finish the project and to continue activities under the RAD EG in cooperation with the other EPPR Expert Groups.	KOD, NOR, RUS, SWE, USA	
EPPR	16. Circumpolar Oil Spill Circumpolar Response Viability Analysis Phase I	The COSRVA was approved by Ministers in 2017 and has the goal of providing more science-based decision-making in Arctic oil spill response contingency planning. An additional benefit of the study is the identification of components or methods used in response countermeasures that could be optimized through additional research and development.	Completed		KOD, NOR, USA	

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
EPPR	17. Follow-up on the Framework Plan on Oil Pollution Prevention	At the SAO meeting in Anchorage (October 2015), it was agreed that EPPR has the lead on prevention, with PAME as co-lead. The report and matrix are regularly circulated to States, PPs, Working Groups, and other relevant bodies.	On track		CAN, NOR	
EPPR	20. Compendium of Arctic Ship Accidents (CASA)	This is a PAME-EPPR collaboration to update incident information contained in the AMSA Report, with input from Arctic States, to develop a new database call the Compendium for Arctic Shipping Accidents (CASA). CASA will support and aid other EPPR projects by providing data to support risk analysis discussions and decision making.	Completed		USA	
EPPR	22. Creating an EPPR Image Library	Develop a unique library of Arctic related oil spill response, SAR, and emergency management graphics and photos accessible by EPPR members for use internally or for outreach materials. The desired outcome is to have images that are free from copyright issues, represent a broad array of subjects and are managed under a set of agreed upon usage guidelines by EPPR.	Completed	The guidelines for submission to the EPPR Image Library were approved by EPPR through a silence procedure intersessionally in October 2019. The guidelines include instructions on the quality of the images (including photographs, illustrations animations, and video) and a template to capture the necessary metadata for proper archiving in the image library. The library is hosted in EPPR SharePoint and was finalized during December 2019.	USA	EPPR Image Library
EPPR	24. Risk Assessment methods and metadata development of guideline and tool	In moving towards a circumpolar marine environmental risk assessment (responding to Objective 3.1.2 in the FPOPP) it was agreed after a workshop in Ålesund (November 2017) that a step-wise approach was the best was forward. To that end, this project will develop a guideline and toolbox. Full participation by Arctic States, PPs, and relevant stakeholder is encouraged.	On track	The Arctic Marine Risk Assessment Guideline was approved by EPPR in March 2020. A press release was sent out on AC and EPPR mailing lists, that generated some international interest in the guideline. In April 2020 a webinar with around 70 participants was held introducing and demoing the guideline. A factsheet has been developed to showcase the guideline. The guideline will be submitted as a Ministerial deliverable in 2021. A new project phase is planned.	NOR	Web-based risk assessment guideline tool will be submitted as a deliverable.
EPPR	25. Circumpolar Oil Spill Response Viability Analysis - Phase II (COSRVA 2)	Since the approval of the COSRVA (Fairbanks 2017) new and improved metocean data has been made available, and these should be implemented to eliminate the reported shortcomings in the previous data. The results of the analysis will be implemented in a web-based GIS tool, which will include several additional features. Phase II of this project was approved at EPPR I in Helsinki in 2018 and is part of the follow-up to the AC Framework Plan for Oil Pollution Prevention (FPOPP). In a study completed by the Norwegian Coastal Administration a web-based tool was implemented. This enables user to work with the results online and directly via computer, tablet or smart phone. EPPR/MER EG supported the Norwegian proposal to develop a similar web-based tool for the circumpolar study.	On track	On behalf of EPPR and in partnership with the co-leads from Iceland and Norway, DNV GL has finished phase II of the project and a web-based tool. The tool was presented at the EPPR-II 2019. Web-based tool is linked to the new EPPR website. In April two webinars were organized to introduce and demo the tool, gathering around 80 participants. EPPR presented COSRVA in Arctic oil spill themed Twitter conference organized by APP4SEA in April. The project leads are planning a possible new phase of the project in cooperation with Danish Centre for Environment and Energy at Aarhus University. The web-based tool will be submitted as a Ministerial deliverable in 2021.	NOR	COSRVA web-based tool will be submitted as a deliverable.
EPPR	26. RADSAR - Sharing of competence with SAR in a maritime radiological/nuclear (RN) scenario	A sub-project of ARCSAFE. The project will seek to enhance the focus on maritime SAR operation in a possible radio-nuclear scenario. The project will gather information from Rescue Coordination Centers (RCCs) including training, equipment and information flow between SAR organization and RN specialists needed to sustain the specific level of operational capacity.	On track	RADSAR project leads have finalized the RADSAR report, it has been approved by EPPR and will be submitted as a Ministerial deliverable in 2021.	FIN, NOR	RADSAR Report will be submitted as a deliverable.

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EPPR	27. Circumpolar Fire	This project aims to improve the coordinated response by Arctic States and Permanent Participants in response to catastrophic wildland fires in the Arctic region, and to promote the possibility of international cooperation and contracting of wildland fire resources across State boundaries, as well as coordinate trainings between relevant agencies so that emergency prevention, preparedness and response to wildland fire is effective and contemporary.	On track	The project was approved intersessionally in January 2020 and the call for co-leads and nominations for national experts was circulated during early 2020. The project gathered a lot of interest both from Arctic States and Observers. First teleconference of the project steering committee was held in June and the second has been scheduled for February 2021. Project resources have been secured in early 2021. Joint workshop with CAFF has been planned for 2021 or 2022.	GCI	
EPPR	28. New Low Sulphur Fuels, Fate and Behavior in Cold Water Conditions	A series of initiatives and regulatory developments over the past several years have given rise to the importance of studying low-sulphur fuel oil in cold sea temperatures, which led to a project proposal that was formally approved by EPPR and PAME in 2020. The project is led jointly by representatives from EPPR and PAME promoting collaboration on a subject that intersects the mandates of these two Working Groups.	On track	The project is led jointly by representatives from EPPR and PAME promoting collaboration on a subject that intersects the mandates of these two Working Groups. The project has gathered a lot of interest both from EPPR and PAME sides, including the Observers. The project has five work packages focusing on sections of the project which will be developed further with the participants. The project is so far on track and has had two meetings with work ongoing, but Covid-19 pandemic can cause delay on some parts.	NOR	
EPPR	29. Risks Project (RAD EG)	The objective of the project is to define the risk potential for emergencies due to nuclear/radiological material and activities that pose a threat in the Arctic. The project will develop a consensus report on identified objects and activities which may involve a potential risk for acute radiological/nuclear incidents (emergency situation) in the Arctic.	On track	The RAD EG decided to produce a summary consensus report that has been finalized and will be submitted as a Ministerial deliverable. A full technical report of the project will serve as a background information and inform future RAD EG work.	NOR, CAN	Project report is planned to be submitted as a deliverable.
EPPR	30. NEPTUNE	The NEPTUNE project was approved intersessionally in June 2020, aiming at investigating if expedition cruise vessels can be utilized as a resource in Arctic oil spill preparedness and response. The project is co-led by Arctic Expedition Cruise Operators, AECO.	On track	The project has concluded its activities and the co-leads Norway and the U.S. are developing a final report. The activities carried out during 2020 included a survey to gather data and a tabletop exercise.	NOR, USA	
EPPR	31. Arctic Lessons Learned Arena	Arctic Lessons Learned Arena project was approved intersessionally in June 2020 aiming to build an easy to use database of best practices and experiences for emergency preparedness and response entities, relevant stakeholder groups in EPPR, and academia, by sharing after action reports, identifying key capability gaps and best practices, assisting in evaluation and planning of exercises and providing a tool for analysis.	On track	An agency to develop the technical solution has been hired after mapping out the key features and possible platforms and the demo version of the platform is ready and was showcased in EPPR January meeting. The development of the platform continues.	NOR	
Expert Group	Expert Group in support of implementation of the Framework for Action on Black Carbon and Methane (EGBCM)	The Expert Group was established at the Arctic Council Ministerial Meeting in Iqaluit 24 April 2015. The objective of the group is to periodically assess progress of the implementation of the Arctic Council's Framework for Action on Black Carbon and Methane, and to inform policy makers from Arctic States and from participating Arctic Council Observer states. This includes preparing, on a once every two-year cycle to the Arctic Council Ministerial meeting, a high-level "Summary of Progress and Recommendations" report, with appropriate conclusions and recommendations.	On track	The Expert Group held its first meeting during the IS Chairmanship in October 2019. The group held two online working meetings in the fall of 2020, and an online meeting in January 2021 to work on the 3rd Summary Report. In addition, the Chair has convened teleconferences with the sector leads and the Chair's writing group. An additional meeting is planned for 3 March 2021 to finalize remaining questions and approve the 3rd Summary Report. Finland, Kingdom of Denmark, Iceland, Norway, Sweden and Canada have submitted their national reports, in addition to nine Observer States and the EU.	ICE	The EGBCM will submit its 3rd Summary Report to the Arctic Council Ministerial meeting in 2021.

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
PAME	7th EA Workshop	PAME is planning the 7th EA workshop in 2020 on element No. 5 of the EA framework, 'Value the cultural, social, and economic goods and services produced by the ecosystems', and notes the objectives and scope as outlined in the workshop prospectus (Annex I). Venue will be the University of Alaska campus in Nome, Alaska. The date will be 29 September – 1 October, following the PAME II-2020 meeting. A planning committee has been formed comprised of members from the EA Expert Group (EA-EG), Permanent Participants and other Indigenous organizations (Saami Council, ICC and the Bering Sea Elders Group), and Observers .	Delayed		NOR, USA	
PAME	A framework for more systematically engaging with Observers on shipping related matters	Develop an approach for more systematically engaging with Observers on PAME's shipping-related work and identify opportunities for Observers to contribute to and/or support such work. PAME will convene one or more workshops during the two-year biennium to advance this project.	On track		USA	
PAME	AMSP Implementation Status Report 2019-2021	To track progress on implementation of the AMSP forty strategic actions and develop the 3rd AMSP Implementation Status Report in collaboration with other Arctic Council working groups for the period 2019-2021 for submission to the Arctic Council Ministerial meeting in 2021.	On track		CAN, FIN, ICE, KOD, NOR, RUS, SWE, USA	
PAME	Arctic Marine Tourism: Development in the Arctic and enabling real change	<p>This project will follow up on recommendations contained in the Arctic Marine Tourism Project: Best Practice Guidelines (AMTP 2015). Main activities include:</p> <ul style="list-style-type: none"> • compilation of data on tourism vessels in the Arctic using PAME's ASTD database to better understand recent developments, identify gaps in data, and explore the feasibility to map the use and carriage of Automatic Identification System (AIS) by vessels not obligated to do so by IMO regulations; • summarizing existing site-specific guidelines for near-shore and coastal areas of the Arctic visited by passengers of marine tourism vessels and pleasure crafts. <p>A project workshop was held on February 3rd 2020.</p>	On track		ICE, CAN	Summary report with recommendations.
PAME	Arctic Protected and Important Areas	CAFF and PAME will work jointly to update the 2017 Arctic Protected Areas Indicator Report (APAI) to incorporate protected areas established since 2017. The APAI data will be compared to the data for the Arctic in the ProtectedPlanet database, managed by the United Nations Environment World Conservation Monitoring Centre. The purpose of this comparison is to determine differences between the two databases and update each	On track			

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PAME	Arctic Ship Traffic Data	The objective is to further refinement of information contained in the ASTD. To further augment and refine the information contained in the ASTD as well as enhance its analytical and report generating capabilities. The ASTD was publicly launched on 7 February 2019 and the project will continue to strengthen and debug the database in response to empirical experience and user feedback. The ASTD website is www.astd.is.	On track	ASTD has given the Arctic Council a unique opportunity to analyse Arctic shipping trends - ASTD provides high-quality data for the whole of the Arctic Council and is one of PAME flagship projects.	USA, NOR	
PAME	Arctic Shipping Best Practice Information Forum	The objective is to foster increased used of the Arctic Shipping Best Practices Information Forum web portal and convene annual meetings of participants and continue the development and expansion of the Forum's web portal (arcticshippingforum.is).	On track	The 4th Arctic Shipping Best Practice Information Forum annual meeting will take place online 24-25 November 2020.	CAN, ICE, USA	
PAME	Arctic Shipping Status Reports	The Arctic Shipping Status Report (ASSR) project's main objective is to utilize the ASTD System to develop a user-friendly, illustrative informational factsheets online to highlight important developments in Arctic shipping activities.	On track	PAME released the The first ASSR report (ASSR #1) on March 31 2020. This report provides information on general Arctic shipping trends between 2013 and 2019 and shows how much Arctic ship traffic has increased. PAME conditionally approved the 2nd Arctic Shipping Status Report (ASSR #2) on "Heavy Fuel Oil in the Arctic" which will be released in October 2020.	USA	Many short reports on Arctic shipping activities will be produced.
PAME	Black Carbon emissions from shipping activity in the Arctic and technology developments for their reduction	The objective of this project is to strengthen harmonization and foster dialogue and cooperation between the Arctic Council member states, Permanent Participants and Arctic Council Observers on research on various fuel and exhaust gas treatment methods as possible means by which to reduce the amount of harmful gases emitted by vessel engines.	On track		FIN, ICE	Summary report.
PAME	Capacity building, information outreach and collaboration	1)Strengthen information outreach and cooperation and collaboration with international and regional organizations and to build the capacity and engagement of indigenous communities and other Arctic inhabitants. 2)Liaise and exchange information with relevant organizations and programs (e.g. UNEP Regional Seas Programme), and other regional programs. 3)Encourage activities and proposals from Permanent Participants. Strive for the development of outreach and communication efforts and plans for PAME's activities (e.g. through updates on the PAME homepage, brochures, roll-up stands, other communication material)	On track			
PAME	Collect and summarize information on Arctic State safe and low-impact marine corridor initiatives	The objective is to Collect information on best practices for safe and low-impact shipping corridors in the Arctic and contribute to enhanced marine navigation safety	On track		CAN, ICE, AIA	
PAME	Collect, report and/or review information about on-shore use by indigenous peoples and local communities of HFO	The objective is to develop a report summarizing the information collected in a field survey in 2018 and 2019 about on-shore use of heavy fuel oil (HFO) by Indigenous peoples and local communities, as well as the extent to which such peoples and communities rely on ships that burn HFO to deliver supplies and provisions.	On track		USA, AIA	

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
PAME	Compendium of Shipping Accidents in the Arctic (CASA): Follow-up	The objective is to develop a compendium of shipping accidents in the Arctic for the period 2005-2017 and an overview report to update the corresponding information contained in the 2009 Arctic Marine Shipping Assessment (AMSA) Report. This work will incorporate the CASA information using GIS mapping tools into PAME's ASTD database and conduct a further analysis and report to identify accident causes and potential options for reducing the risk of such accidents.	On track			
PAME	Develop a non-binding PAME-ARHC MoU	The objective is to formalize the relationship between PAME and the Arctic Regional Hydrographic Commission. PAME has approved of the draft PAME-Arctic Regional Hydrographic Commission (ARHC) MoU by the SAOs in November 2019 as well as by the ARHC in December 2019. PAME has approved signing of the final MOU by the PAME Chair or Vice-Chair in coordination with the ARHC.	On track		CAN, USA	Signed MoU.
PAME	Develop an overview of Arctic States' and Observer States' interpretation of the Polar Code	<p>The adoption of the Polar Code was a first step towards ensuring safe and sustainable shipping in the Arctic. In order to ensure the success of the Polar Code there is a need to work towards facilitating, where applicable, consistent implementation and enforcement of the Code.</p> <p>Based on input from the Arctic States as well as Observer states, a comprehensive overview of Maritime administrations' interpretations of the Code will be developed. This exercise will contribute to the establishment of a 'common ground' for interpretation and give an overview of remaining challenges.</p>	On track		NOR	
PAME	Develop two factsheets on Marine Protected Areas (MPAs) under change	Develop two factsheets on MPAs under change with the aim to leverage and synthesize factual information from the Arctic Council's work on this topic and communicate to decision makers and the public; and contribute to cross-working groups cooperation on common topics.	On track		FIN, USA	
PAME	Environmental toxicity and fate of light and intermediate fuel when spilled in cold waters	<p>The objective is to gather knowledge and explain the large variation in environmental toxicity of light and intermediate fuel oil. This is a joint project proposal by PAME and EPPR.</p> <p>PAME anticipates finalizing and approving this project proposal intersessionally in coordination and consultation with EPPR.</p>	On track		NOR	Summary report.
PAME	Expansion and Refinement of the MPA Network Toolbox	<p>Continue enhancing PAME's work on a Pan-Arctic Network of Marine Protected Areas and contribute to some of the near-term actions listed in the Framework for a Pan-Arctic Network of MPAs and the AMSP strategic action 7.2.10.</p> <p>Expand the MPA Network Toolbox based on the outcomes of the 4th MPA Workshop held on 19-21 March 2019 in Cambridge Bay, Nunavut, Canada, on Exploring ways to support Indigenous/Local involvement in, and Indigenous/Local led, marine protection in the circumpolar Arctic Ocean.</p>	On track			

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
PAME	Follow-up on the Framework Plan on Oil Pollution Prevention (FP-OPP)	EPPR, in cooperation with PAME, will continue to report on the status of implementation of the FP-OPP. The Status Report on implementation identifies follow-up activities that support the objectives in the Framework Plan. The report will include input from other Arctic Council working groups and relevant stakeholders capturing activities that are already taking place.	On track		CAN, USA	
PAME	Implementation Plan for the ARIAS Strategy and Action Plan	PAME Chair, will engage with the CAFF Chair and existing Implementation Coordinating Group (ICG) members to propose a new approach for ARIAS implementation. Implementation actions will be led by different Arctic States, PPs, WGs and other Arctic Council subsidiary bodies.	On track			
PAME	Integrated Ecosystem Assessment (IEA) of the Central Arctic Ocean	The objective is to provide scientific advice on issues such as the prospect for future fisheries in the central Arctic Ocean and sensitivity and vulnerability to shipping activities. Contribute to the implementation of the EA in the Central Arctic Ocean.	On track		NOR, USA	
PAME	MEMA Information handbook for engagement with indigenous peoples and local communities	To develop an Information handbook or a reference guide as a practical tool for engagement with indigenous peoples and local communities as a follow-up to the Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities (MEMA) project. Outreach material is being produced for this project, including a brochure. The MEMA Reference Guide will be translated into various languages including Indigenous languages, Greenlandic, Russian, etc.	On track		CAN, USA, AIA, ICC, Saami Council	
PAME	Modelling Arctic oceanographic connectivity to further develop PAME's MPA toolbox	Ongoing climate change may facilitate increased access to the Arctic region, and potential new economic opportunities, but may also bring potential threats to the Arctic marine and coastal environments. These changes could benefit from more integrated approaches to Arctic marine management, including the consideration of MPA networks designed to aid in the conservation and sustainable use of the Arctic environment. Activities will include the development of models as a tool to help decision makers in designing MPA networks and identifying possible optimal networks of (multiple) MPAs; calculation of optimal network and barriers; coordination meetings and collaboration with other Arctic Council working groups as relevant, in particular with CAFF and its Circumpolar Biodiversity Monitoring Program (CBMP).	On track		SWE	

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
PAME	Regional Action Plan on Marine Litter	<p>To develop a Regional Action Plan on Marine Litter in the Arctic (RAP-ML) addressing both sea and land-based activities, focusing on Arctic-specific marine litter sources and pathways that will play an important role in demonstrating Arctic States' stewardship efforts towards reducing the negative impacts of marine litter, including microplastics, to the Arctic marine environment. The RAP-ML may be updated in subsequent bienniums to address new and emerging information and priorities; therefore, the structure needs to be realistic and adaptable.</p> <p>PAME has welcomed the 1st draft of the Regional Action Plan on Marine Litter in the Arctic (ML-RAP) and held a workshop on 3 February on the development of the ML-RAP with contributions from marine litter experts and the AMAP representative in this regard.</p> <p>Outreach and communication is an important part of this work, including the Plastic in a bottle component.</p>	On track		CAN, KOD, FIN, ICE, NOR, SWE, USA, AIA	Regional Action Plan on Marine Litter.
PAME	Report on development in defining or setting Ecological objectives	<p>PAME is planning the 'Report on development in defining or setting Ecological Objectives' with two main parts: concepts related to ecological objectives, and experiences gained from practical application of ecological objectives. An extended outline has been prepared by the EA co-leads, and a first draft will be prepared with input from PAME members and the EA-EG to PAME II-2020. EA co-leads plan to prepare a final draft for approval by PAME II-2021 as a potential deliverable for the 2021 Ministerial. PAME requests that names of those who would contribute to the report be sent to the Secretariat by February 28, 2020. In addition, PAME requests that information on relevant international conferences on this topic also be submitted to the Secretariat by February 28, 2020.</p>	On track		NOR, USA	Report for approval.
PAME	The 2nd International Science and Policy Conference on Implementation of the Ecosystem Approach to Management in the Arctic	<p>Continue to integrate the ecosystem approach into assessments and management recommendations through follow-up to the 2013 EBM marine-related recommendations, taking into account previous work on Large Marine Ecosystems (LMEs), and new and ongoing EA activities of cross-cutting nature.</p>	On track		NOR, USA	
PAME	Underwater Noise in the Arctic – Phase I	<p>The aim is to obtain a better understanding of, and estimate the current underwater noise emissions incidentally generated by commercial shipping in the Arctic, while using information from PAME's ASTD database, and collaborating with CAFF as appropriate to advance implementation of AMSA Report Recommendation III(G).</p> <p>PAME invites its members as well as other Arctic Council working groups to submit comments on the draft report titled "Vessel Traffic Trends in the Arctic and Overlap with Important Marine Mammal Areas".</p>	On track		CAN	
PAME	Update of PAME's shipping priorities and recommendations	<p>The objective is to finalize updates of the Ministerial-approved 2009 AMSA Report Recommendations for consideration and adoption by the Arctic Council and prepare a report that explains and provides a rationale for the proposed changes.</p>	On track		CAN, USA	Updated recommendations for SAO approval.

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
PAME	Update/status report on current offshore oil and gas activities by Arctic States	The objective is to describe current oil and gas activities of the Arctic States based on States' submissions of information including on relevant legislation, regulations and practices. prepare an update/status report on current offshore oil and gas activities by Arctic States. To this end, REDEG will develop a template to facilitate States' submissions. All inputs have been requested by June 2020.	On track		USA	
SDWG	15. Operationalizing a One Health approach in the Arctic (One Health)	One Health is an approach to assess health issues at the interface between humans, animals, and ecosystems. This project seeks to forge co-equal, all-inclusive collaborations across multiple scientific disciplines and Arctic communities in order to enhance resiliency of the Arctic inhabitants through an enhanced understanding of climatic change impacts on health risks to people, animals, and the environment. The project includes TLK holders in the leadership team to develop strategy for implementing an Arctic One Health framework and in Table Top Exercises, as well as "on-the-ground" activities. The project moved to a second phase in period 2017-2019 and will continue in 2019-2021. A project plan for the Icelandic Chairmanship is under development	Completed	See the project report: One Arctic – One Health Final Report (submitted 19 Feb 2019)	CAN, FIN, USA	Report: One Arctic – One Health Final Report
SDWG	16. Circumpolar Resilience, Engagement and Action Through Story (CREATes)	This is a follow-on to the RISING SUN project (2015-2017) and other important work that SDWG has undertaken since 2009 in relation to suicide prevention. This work will continue under a new phase of work during the Icelandic chairmanship. A project plan is under development.	Completed	See the project report: Project CREATes: Circumpolar Resilience, Engagement and Action Through Story	CAN, FIN, KOD, ICC	Final Report: Project CREATes: Circumpolar Resilience, Engagement and Action Through Story
SDWG	20. Gender Equality in the Arctic II (see Gender project above for update details)	The project promotes and expands the dialogue on Gender Equality in the Arctic region. Building on previous projects, initiatives and conferences, in particular the outcome and recommendations from the Conference – Gender Equality in the Arctic- Current Realities and Future Challenges, that was held in Akureyri in October 2014. The project aims to continue that work by establishing a formal network of experts in this field that will over the course of the next two years advance the work of the Arctic Council and the SDWG in this area.	Completed	See: Information Sheet: Gender Equality in the Arctic II Website: https://arcticgenderequality.network/	FIN, ICE, SWE, AIA, Saami Council	Information Sheet: Gender Equality in the Arctic II; Website: https://arcticgenderequality.network/
SDWG	Arctic Children: Preschool and School Education	The nomadic school project is aimed at the analysis and evaluation of educational practices without interrupting the traditional way of life of Indigenous peoples – children of nomads, providing them with the knowledge and skills necessary to function fully as effective members of both their own community and mainstream society. The main objective of the project is collection of data related to best international practices and their implementation: optimal curriculum and education process organization, creation of arctic nomadic tutoring system.	Delayed	The project leads are currently developing a proposal for the next phase of the project to be discussed with co-leads and project partners. Due to Covid-19, the development of this proposal has been postponed and is now expected to be part of SDWG 2021-2023 work plan.	FIN, RUS, RAIPON, CAN	None
SDWG	Arctic Demography Index	The project "Arctic Demography Index" focuses on 2 natural and mechanical demography parameters (natural decrease, natural increase, migration flows of 4 types) within 19 arctic territories of 5 Arctic Council member states (9 regions of the Russian Federation, 3 regions of Lapland, Kainuu, North Ostrobothnia in Finland, 2 counties of Norway - Nordland and Troms, 2 counties of Sweden - Norrbotten and Västerbotten, and the Canadian Arctic and North.	On track	This project was endorsed intersessionally by the SDWG in August 2020. It is included in the SDWG 2021-2023 work plan.	RUS, CAN, NOR	

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
SDWG	Arctic Food Innovation Cluster (AFIC)	The AFIC will pull together relevant people in the Arctic foods value chain for a cluster-based approach to food production and regional economic development. We understand food production to encompass traditional, artisanal, and industry-scale production of natural resources into food for own, national, and international consumption. A cluster-based approach to food innovation will draw together Arctic food producers with governments, Arctic Indigenous communities, universities, research centers, vocational training providers, and industry associations and young people (the next generation). Overall it will respond to global challenges of food production while seeking to define the Arctic's role and contribution to the changing climate and issues of food security locally and around the world.	Delayed	This project was endorsed at the SDWG meeting in February 2019. Adjustments have been made to the project as a result of the pandemic. The final report will not be ready for 2021 Arctic Council Ministerial Meeting.	CAN, FIN, ICE, AIA, GCI, RUS	Final project report and framework/model for establishing an AFIC
SDWG	Arctic Hydrogen Energy Applications and Demonstrations (AHEAD)	Design, construction and development of the year-round Snowflake International Arctic Station (IAS) based on fully-autonomous hydrogen energy for finalizing, testing and popularizing solutions in the future environmental life-support technologies, as well as other technologies that improve living conditions in remote areas in the Arctic, such as medicine, biotechnology, clean agricultural technology, telecommunications, robotics, 'the Internet of Things' and 'smart home/village', new materials and construction technologies and others. The station is also a vehicle for supporting joint research on climate change, ecology and environmental pollution, including that of the oceans. Functioning as a "living laboratory" IAS will provide a technological and economic foundation to scale up the newly developed solutions for widespread use.	On track	This project was endorsed by SDWG at the 8-9 June 2020 SDWG plenary meeting. It is identified as a project in the SDWG 2021-2023 work plan.	RUS, NOR	none
SDWG	Arctic Indigenous Youth, Climate Change and Food Culture (EALLU) II	This project seeks to maintain and further develop a sustainable and resilient reindeer husbandry in the Arctic in face of climate change and globalization, while working towards a vision of creating a better life for circumpolar reindeer herders. The 2019-2021 project focuses will focus on youth involvement and engagement, seminars and place-based workshops, local capacity building, summer/ winter schools, networking, as well as co-production of project outputs by youth themselves.	Delayed	This project was endorsed at the Sept. 2019 SDWG meeting. Due to Covid-19, the first Arctic Indigenous Peoples' Food Congress planned for March 9-13, 2020 was cancelled. Organizers are now considered reschedule for 2022. The cancellation of this event and other delays in activities as a result of the pandemic mean that project leads will need more time to fully deliver (est. full delivery by 2023). This project is included in the SDWG 2021-2023 work plan.	CAN, NOR, AIA, Saami Council, RUS	Project Update
SDWG	Arctic Remote Energy Networks Academy (ARENA) II	ARENA I took place from 2017-2019. ARENA II (a follow-on project) was endorsed by the SDWG in September 2019. It seeks to increase human capacity, promote leadership, and deploy traditional and local knowledge through the creation of a knowledge exchange program emphasizing the development, operation, and management of remote energy networks (microgrids) incorporating renewable resources. ARENA combines online webinars, classroom, laboratory, and field study learning environments, drawing from best practices established through experiences of the people living and the organizations operating in the Arctic. Participants will bring back to their home areas knowledge, skills, and tools that facilitate integrating clean energy technologies in their communities and promote energy security and diversification, including completed feasibility studies. Thirty-three (33) applications were received and sixteen (16) were invited into	Delayed	ARENA II was endorsed for two years with the possibility to extend for another 2 years at the September 2019 SDWG meeting. Due to Covid-19, on-site sessions in Canada, the United States and Iceland have been postponed until 2021. Participants to connect virtually until further notice. This project is included in the SDWG 2021-2023 work plan.	CAN, ICE, USA, GCI, RUS	

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
SDWG	Arctic Renewable Energy Atlas (AREA)	The online Arctic Renewable Energy Atlas (AREA) is a central location to access information, case studies, and best practices in the Arctic region to facilitate implementation of renewable energy and energy efficiency projects. Information presented within the Atlas falls into four categories: resource supply, demand, investment and capacity, and traditional and local knowledge. Taken together, AREA will foster knowledge exchange between Arctic residents and promote clean energy prospecting by internal and external investors. It can be accessed at: https://arcticrenewableenergy.org	Completed	The AREA website was launched in May 2020.	CAN, USA, ICE	•Online tools for Arctic communities interested in renewable energy.
SDWG	Blue Bioeconomy in the Arctic Region	This new project forms part of the Icelandic Chairmanship Program and the SDWG 2019-2021 work plan. It was endorsed by the SDWG in September 2019. This project maps key opportunities for enhancing and further developing the Arctic blue bioeconomy with a focus on balancing economic growth, social inclusion and environmental protection. The project is collecting success stories and describing best practices, as well as identifying obstacles that could hamper progress. The PAME working group is involved with the project and linkages with the AEC's Blue Economy Working Group have also been made.	On track	This project was endorsed at the September 2019 SDWG meeting. Due to Covid-19, the draft report was released slightly later than expected. A workshop was hosted online in October 2020. The final report was endorsed by the SDWG in February 2021.	CAN, ICE, KOD, NOR, USA, AIA	Final report
SDWG	Digitalization of Linguistic and Cultural Heritage of Indigenous Peoples of the Arctic	This project was endorsed at the October 2020 meeting. It is focused on preserving and developing Indigenous languages, traditional knowledge and cultures of the Arctic Indigenous peoples. The project will use modern digital technologies, creation of a GIS map and Arctic Indigenous peoples' knowledge database on a multilingual portal, www.arctic-megapedia.com . The Project will provide access to information, promote better understanding and facilitate adaptation to Arctic changes based on the knowledge and resources of affected communities and peoples.	On track	This project was endorsed at the October 2020 SDWG plenary meeting. This project is included in the SDWG 2021-2023 work plan.	RUS, NOR, RAIPON	
SDWG	Gender and Equity in the Arctic (GEA) III	Builds on the 2002 Taking Wing conference on gender equality and women in the Arctic. The Akureyri, Iceland conference held in October 2014 focused on the living conditions of men and women throughout the circumpolar North; addressed key issues including access to and control over resources; representation in decision-making; political participation; regional development; human security; and material and cultural well-being. A follow-on project was completed during 2017-2019 and a new phase III project has been endorsed for 2019-2021. This phase of the project will produce a pan-Arctic report on gender and diversity in the Arctic and publish a digital quarterly newsletter about the status of GEA III and highlight gender-related topics in the Arctic. The Editorial Committee for the GEA report has been established and a youth advisory council has been created. Most authors have been confirmed. The GEA team has also launched a website, newsletter and is planning gender-related sessions at several conferences.	Delayed	Because of the Covid-19 pandemic there have been some delays to funding agreements, all in-person meetings have been put on hold and GEA-related conference sessions have been delayed or canceled. Consultations on the report are now be managed through online webinars. The GEA Report is now with SDWG for endorsement and is expected to be ready as deliverable for the Arctic Council Ministerial Meeting 2021.	ICE, SWE, FIN, CAN, Saami Council, AIA, USA	Pan-Arctic report on gender and diversity in the Arctic; a digital quarterly newsletter about the status of GEA III and highlight gender-related topics in the Arctic
SDWG	Local 2 Global: Circumpolar collaboration for suicide prevention and mental wellness	Stemming from Project CREATeS under the Finnish chairmanship (2017-2019) which built on the Sharing Hope project from the Canadian chairmanship (2013-2015) and the RISING SUN initiative under the U.S. chairmanship (2015-2017), Local 2 Global aims to facilitate international collaboration and connections between circumpolar communities working to prevent suicide and support the mental wellbeing of all Arctic youth and communities, including Arctic Indigenous Peoples who have the highest rates of suicide in the Arctic. The project takes a holistic approach founded on the SDWG guiding principles of collaboration, concrete achievements, and inclusive engagement and activity.	Delayed	This project was endorsed for 4 years (2019-2023) at the September 2019 SDWG meeting. Due to Covid-19, project leads are exploring options to transition certain activities online. Further modification to the project plan and the timeline to complete the project plan will depend on further developments with the pandemic.	CAN, FIN, KOD, SWE, ICC, Saami Council	Adverse childhood experiences virtual workshop held in March-April of 2021; and Knowledge sharing virtual activity held in March of 2021.

WG	Initiative Title	Short Summary	Status	SAO Notes	AC Leads	Deliverables 2021
SDWG	One Arctic, One Health	This project focuses on exchanging information, assessments and innovations that can support public health systems and health service delivery (including clean energy sources/systems) - with particular emphasis on projects that reduce death and disability from environmental risk factors, suicide, and high-burden infectious and chronic diseases. One Health was initially introduced in the 2015-2017 work plan.	Delayed	This follow-on project was endorsed at the June 8-9 2020 Virtual SDWG Plenary meeting. The Kingdom of Denmark and Norway expressed interest in joining as potential co-leads. Due to Covid-19, the related March 2020 conference One Health, One Future was postponed to 2021 (TBC) and efforts to sponsor a One Arctic, One Health tabletop exercise in Canada were postponed. Project leads are now planning a virtual knowledge sharing activity in Nov. 2020 on the Association between Mental Health, National Identity, and Preservation of Native Culture. A virtual One Arctic, One Health conference in April 2021. This project is included in the SDWG 2021-2023 work plan.	USA, CAN, FIN, KOD	Global Health Security Risks from Microbial Threats in the Arctic Workshop; Association between Mental Health, National Identity, and Preservation of Native Culture - virtual knowledge sharing activity; and One Health, One Future virtual conference
SDWG	Solid Waste Management in Small Arctic Communities	This project is a collaborative effort between the SDWG and ACAP. It was endorsed intersessionally by the SDWG in August 2020 and will be considered for PSI approval in November 2020. A projects coping workshop took place in Alaska in February 2020. The SDWG component of the project will involve the development and launch of a web-based community solid waste assessment tool.	On track	This project was endorsed intersessionally by the SDWG in August 2020. It is included in the SDWG 2021-2023 work plan.	AIA, CAN, FIN, USA, Saami Council	community solid waste online assessment tool
SDWG	Sustainable Development Goals in the Arctic: The Nexus Between Water, Energy, and Food (WEF)	This project was endorsed by the SDWG in October 2020. This project will examine the nexus between Sustainable Development Goal (SDG) 2 - Ending hunger and achieving Food security for all; SDG 6 - Ensuring the availability and sustainable management of Water and sanitation for all; and SDG 7 - Ensuring access to affordable, reliable, sustainable and modern Energy for all. It is the first WEF nexus study to be conducted in the Arctic.	On track	This project was endorsed at the SDWG plenary meeting in October 2020. It is included in the SDWG 2021-2023 work plan.	CAN, ICE, FIN	
SDWG	The Economy of the North 2020 (ECONOR IV)	The ECONOR projects draw together and harmonize socio-economic statistical data across national and regional borders. Previous reports were released in 2006, 2008 and 2015. A final report will be released in January 2021.	Delayed	ECONOR IV was endorsed intersessionally by the SDWG in April 2020. Adjustments have been made to the project due to COVID-19. The final report is delayed, but it is still expected to be completed for the Arctic Council Ministerial Meeting 2021.	NOR, CAN, USA, Saami Council	Final report
SDWG	Zero Arctic: Concepts for carbon neutral Arctic construction based on tradition	The focus of the Zero Arctic project is to develop regional concepts for Arctic building construction that would be carbon neutral over their full life cycle. The aim is to utilise both scientific life cycle assessment and energy simulation methods as well as to learn from and apply traditional knowledge of sustainable construction. A draft report was distributed to SDWG members for feedback on 29 May 2020. Comments are appreciated from Permanent Participants, Member states and Observers until 31 July 2020. The final report will be presented to SDWG in October. The project is expected to finish by the end of 2020. Planning future projects in other Arctic areas is warmly encouraged.	On track	Due to Covid-19, there were some delays in the release of the draft report and opportunities to present the report at exhibitions and events has now been postponed indefinitely. There are no delays expected. The final report was endorsed by SDWG in Oct. 2020.	CAN, FIN	Zero Arctic report