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## ACAP

Status: **On Track**

### 1.1 Reduction of Black Carbon from Diesel Sources in the Russian Arctic Project (SLCFC PSG)

Contact

#### Description of this initiative

Assess primary sources of black carbon in the Russian Arctic; develop a baseline emissions inventory for black carbon from diesel in key areas; implement targeted demonstration projects; establish policy recommendations and financing options.

#### 2017 Deliverables

Report: Circumpolar best practices: Policy and financing options for black carbon emission reductions from diesel sources

## ACAP

Status: **On Track**

### 1.3 Arctic Black Carbon Case Studies Platform (SLCFC PSG)

Contact

#### Description of this initiative

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.

#### 2017 Deliverables

Black carbon case studies portal will be showcased as part of ACAP's project work during the U.S. Chairmanship.

## ACAP

Status: **On Track**

### 1.4 Valday Cluster Upgrade for Black Carbon Reduction in the Republic of Karelia, Russian Federation (SLCFC PSG)

Contact

#### Description of this initiative

This project aims to implement a range of alternatives for providing energy to off-grid settlements in this region with the objectives to; 1) contribute to mitigation of pollutants, including SLCs such as BC and other GHGs; 2) decrease the dependence of the Cluster settlements on transported fossil fuels, 3) reduce the electricity/district heating costs for the municipality; 4) increase the reliability and quality of electricity/district heating supply and 5) strengthen the expertise of the local institutions in the energy supply and project management.

#### 2017 Deliverables

[Blank]

ACAP

Status: On Track

## 2.1 Non-ferrous/Zinc Smelter Mercury Reduction in the Russian Federation (Mercury PSG)

Contact

### Description of this initiative

The project will seek to identify, develop and apply pollution reduction approaches and technologies to a selected pilot smelter, and monitor the approaches for baseline and progress determinations. The project awaits a signed letter of commitment to participate in the project from the smelter facility owners. A Workshop on "Technical Information Exchange on Mercury Abatement in the Metallurgical Industry", was held in Yekaterinburg in April 2015. Currently, changes to the Workshop Report are under discussion that may make it acceptable to the Russian Federation.

### 2017 Deliverables

None

ACAP

Status:

## 2.2 Mercury Control Technology Workshop

Contact

### Description of this initiative

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.

\* (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.)

### 2017 Deliverables

None

ACAP

Status: **On Track**

### 3. Phase III: Demonstration of environmentally sound destruction of obsolete pesticides (Obsolete Pesticides PSG)

Contact

#### Description of this initiative

The project currently under preparation will demonstrate whether super-critical water oxidation facility (SCWO) based on the SCHO-10-EET technology located in Krasnoyarsk, Russian Federation, will provide a domestic capability for cost effective, environmentally sound destruction of obsolete pesticides and specifically POPs pesticides. The technology demonstration also has a broader national and global objective of contributing to Russia's ability to achieve compliance under Article 6 of the Stockholm Convention. This is also consistent with the global objectives of the Arctic Council and ACAP in respect to reduction in Arctic contamination. Project will seek funding from PSI.

#### 2017 Deliverables

International performance review of suitability of the only Russian technology currently approved for environmentally sound destruction of obsolete pesticides and specifically POPs pesticides.

ACAP

Status: **On Track**

### 4. Phase III (Dioxin/Furan PSG) Reduction/Elimination of Emissions of Dioxins and Furans in Russia with a focus on Northern regions

Contact

#### Description of this initiative

Project to reduce dioxins and dust emission and training program for the Vorkutinskiy cement plant

#### 2017 Deliverables

[Blank]

ACAP

Status: **On Track**

## 4.1 Pilot emission reduction actions at Vorkutinskiy Cement Plant (Dioxin/Furan PSG)

Contact

### Description of this initiative

Based on the results from inventory activities in Phase I (2002-2005) and Phase II (2006-2008), the Vorkutinskiy Cement Plant (VCP) was selected for a Phase III Pilot Action Project for reduction of dioxins and furans emissions. In close cooperation with NEFCO, the EG so far conducted the following activities at the facility:

1: Prefeasibility study bt NEFCO (2011-2013), 2: Seminar on environmental requirements on using waste as fuel (2014); 3: Sample and Analysis of Emissions (2014-2016), 4: Fesibility Study and Drafting of an Action Plan for Reduction Actions at VCP (2014-2016),

If deemed feasible and fundable, the following activities are supposed to follow from 2016:

5: Implementation of Reduction Actions, 6: Assessment of Reduction, 7: Dissemination of experiences.

### 2017 Deliverables

[Blank]

ACAP

Status:

## 4.2 P2345 - Inventory programs, control technologies and other support to Russia's compliance with international convention requirements (dioxin/furan PSG)

Contact

### Description of this initiative

A draft project proposal, aiming at eliminated or reduced dioxin and furan pollution from sources in Russia affecting the Arctic Environment, was elaborated by the PSG on Dioxins and Furans in 2014-2015 and submitted to the PSI Committee from which it received an EoI approval in March 2015. Based on this, a more detailed project application is now under development, where possible also incorporating Mercury issues.

### 2017 Deliverables

None

ACAP

Status: On Track

## 5. Demonstration of management and destruction of 250 tons of PCB in transformers: Phase III (PCB PSG)

Contact

### Description of this initiative

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.

### 2017 Deliverables

Feasibility and inventory studies.

ACAP

Status: On Track

## Circumpolar Local Environmental Observers (CLEO) Network

Contact

### Description of this initiative

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.

### 2017 Deliverables

Framework for expansion of LEO.

## ACAP

Status: **On Track**

### Community-based black carbon and public health assessment

Contact

#### Description of this initiative

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.

#### 2017 Deliverables

[Blank]

## ACAP

Status:

### Demonstration of Rapid Environmental Assessment of Pesticides Contaminated Sites

Contact

#### Description of this initiative

The project will demonstrate 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.

#### 2017 Deliverables

None

## AMAP

Status: **On Track**

### 01. Adaptation Actions for a Changing Arctic

Contact

#### Description of this initiative

Pilot project on adaptation to Arctic change. TLK is used throughout the project.

#### 2017 Deliverables

Three regional science reports and three regional summary for policy makers, one pan-Arctic report.

## AMAP

Status: **On Track**

### 02. Air Pollution, including SLCFs

Contact

#### Description of this initiative

Develop future AMAP initiative on air pollution and SLCFs

#### 2017 Deliverables

AMAP work-plan component on Air pollution/SLCFs follow-up work

## AMAP

Status: **On Track**

### 03. Human Health and combined effects

Contact

#### Description of this initiative

Further develop AMAP initiative on human health and combined effects

#### 2017 Deliverables

AMAP work-plan component on human health follow-up work

## AMAP

Status: **On Track**

### 04. Unmanned Aircraft Systems (UAS)

Contact

#### Description of this initiative

Continue work on safety guidelines and demonstrate the use of cross-jurisdictional environmental monitoring

#### 2017 Deliverables

[Blank]

## AMAP

Status: **On Track**

### 05. Contaminant issues: Radioactivity

Contact

#### Description of this initiative

Prepare future AMAP initiative on radioactivity

#### 2017 Deliverables

AMAP work-plan component on Radioactivity follow-up work

## AMAP

Status: On Track

### 06. Contaminant issues: POPs and mercury

Contact

#### Description of this initiative

AMAP's POPs and mercury expert groups will produce an update assessment components as follows:

2016: Update assessments on Chemicals of Emerging Arctic Concern;

2016/17: Update assessment on Biological Effects of POPs and Mercury

2017/18: Update assessment on Climate Change Impacts on POP

#### 2017 Deliverables

Scientific and policy-makers summary reports on chemicals of emerging Arctic concern  
AMAP work-plan component on POPs and mercury follow-up work

## AMAP

Status: On Track

### 07. Sustaining Arctic Observing Networks (SAON) Project: Coordination of metadatabases

Contact

#### Description of this initiative

Coordinate databases on Arctic observational assets metadata

#### 2017 Deliverables

[Blank]

## AMAP

Status: On Track

### 08. AMAP Trends and Effects Programme

Contact

#### Description of this initiative

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.

#### 2017 Deliverables

The programme provides input to AMAP assessments

AMAP

Status: **On Track**

## 09. Arctic Ocean Acidification

Contact

### Description of this initiative

Prepare a report with a focus on the socioeconomic impacts of Arctic Ocean acidification, like fisheries. Follow up to the AMAP 2013 AOA report.

### 2017 Deliverables

Interim report

AMAP

Status: **On Track**

## 10. Climate Issues: Snow, Water, Ice and Permafrost in the Arctic (SWIPA)

Contact

### Description of this initiative

The work is addressing cross-cutting topics as a follow up to the 2011 assessment on Snow, Water, Ice and Permafrost in the Arctic (SWIPA). The work will also synthesize new information and address teleconnections.

### 2017 Deliverables

Scientific and policy-makers summary reports on SWIPA findings

AMAP

Status: **On Track**

## 11. International Conference on Arctic Science: Bringing Knowledge to Action - April 24-27, 2017 Reston, Virginia, USA

Contact

### Description of this initiative

Arrangement of an international conference to showcase results of recent AMAP (and other WGs) scientific assessment work

### 2017 Deliverables

Report on conference outcome

CAFF

Status: **On Track**

## 01. Circumpolar Biodiversity Monitoring Program (CBMP) - General

Contact

### Description of this initiative

- The CBMP is a flagship program of the CAFF working group and an ongoing monitoring program that has received international recognition
- 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).
- CBMP activities are structured around the major Arctic ecosystem: marine, freshwater, terrestrial and coastal.
- 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.
- 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.

### 2017 Deliverables

Protected indicators report (Marine & Terrestrial); A global audit of status and trends of Arctic & northern hemisphere goose populations;

CAFF

Status: **On Track**

## 01.1 CBMP Marine Biodiversity Monitoring group

Contact

### Description of this initiative

- 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.
- The CBMP supports the inclusion of 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.

### 2017 Deliverables

State of the Arctic Marine Biodiversity Report; Annual implementation reports

CAFF

Status: On Track

## 01.2 CBMP Freshwater Biodiversity Monitoring group

Contact

### Description of this initiative

- The Arctic Freshwater 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 freshwater plan further work is underway to continue to assess the state of the ecosystem and national implementation.
- 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.

### 2017 Deliverables

Annual implementation reports

CAFF

Status: On Track

## 01.3 CBMP Terrestrial Biodiversity Monitoring group

Contact

### Description of this initiative

- 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 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.

### 2017 Deliverables

Annual implementation reports

CAFF

Status: On Track

## 01.4 CBMP Coastal Biodiversity Monitoring Plan

Contact

### Description of this initiative

- 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.

### 2017 Deliverables

Coastal biodiversity monitoring plan: background paper; Coastal workshop report;

CAFF

Status: On Track

## 01.5 CBMP Indicators

Contact

### Description of this initiative

- 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 indices and indicators are developed in a hierarchical manner, allowing users to drill down into the data from the higher-order indices to more detailed indicators. These are being developed through an expert consultation process.
- 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.

### 2017 Deliverables

Arctic Species Trend Index: Migratory Birds Index; Arctic Protected Areas indicator report (Marine & Terrestrial); Arctic Land Cover Change Initiative MODIS Satellite data

CAFF

Status: Delayed

## 02. Nomadic herders: enhancing resilience of pastoral ecosystems and livelihoods

Contact

### Description of this initiative

Project at risk/delayed because release of Global Environment Fund (GEF) funding remains stalled • 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.

### 2017 Deliverables

[Blank]

CAFF

Status: On Track

## 04. Second Arctic Biodiversity Congress

Contact

### Description of this initiative

To follow-up on the first congress and organise a second event in advance of the Aichi target year of 2020

### 2017 Deliverables

[Blank]

CAFF

Status: On Track

## 06. Actions for Arctic Biodiversity 2013-2021: Implementing the recommendations of the Arctic Biodiversity Assessment

Contact

### Description of this initiative

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 recommendations. The Arctic Council Ministers agreed to implement 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.

### 2017 Deliverables

A progress report implementation of the recommendations from the Arctic Biodiversity Assessment

CAFF

Status: On Track

## 06.1 Invasive species

Contact

### Description of this initiative

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 for delivery to the 2017 Arctic Council Ministerial. This will include 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.

### 2017 Deliverables

Arctic Invasive Alien Species Strategy and Action Plan

CAFF

Status: On Track

## 06.2 Ice associated marine mammals

Contact

### Description of this initiative

Project aims to increase comparative understanding of ice-associated Arctic marine mammals and their responses to large-scale environmental changes; enhancing forward-looking capacity will improve potential opportunities for mitigation and conservation.

### 2017 Deliverables

[Blank]

CAFF

Status: **On Track**

## 06.3 Traditional Knowledge and Wisdom: Changes in the North American Arctic

Contact

### Description of this initiative

This report is a compendium of Arctic Indigenous perspectives and understandings from Indigenous authors, and others, on biodiversity change in the Arctic and examples of the use of TK&W in managing fish, wildlife, and habitat.

### 2017 Deliverables

Traditional Knowledge and Wisdom: Changes in the North American Arctic

CAFF

Status: **On Track**

## 07. The Arctic Migratory Bird Initiative

Contact

### Description of this initiative

- The Arctic Migratory Bird Initiative is a Chairmanshp priority.
- The project's objective is to improve conservation outcomes for arctic-breeding migratory birds by addressing conservation issues throughout their migratory range.
- Focus is on three conservation issues: 1. Habitat destruction/degradation; 2. Unsustainable harvest; 3. Bycatch
- Actual work will be undertaken on a flyway basis, with priority issues identified on each flyway.

### 2017 Deliverables

A progress report on implementation of the AMBI

CAFF

Status: **On Track**

## 08. Seabird program

Contact

### Description of this initiative

- 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 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.

### 2017 Deliverables

Seabird monitoring plan; various reports on seabird harvest and status and trends of Arctic seabirds

CAFF

Status: **On Track**

## 09. Arctic Flora program

Contact

### Description of this initiative

- 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.

### 2017 Deliverables

The Alaska-Yukon Region of the Circumboreal Vegetation Map (CFG)

CAFF

Status: **Delayed**

## 10. Conservation of biodiversity in a changing Russian Arctic

Contact

### Description of this initiative

Assessment activity

\*awaiting Global Environment Facility Decision

### 2017 Deliverables

[Blank]

CAFF

Status: **On Track**

## 11. Arctic Biodiversity Data Service (CAFF)

Contact

### Description of this initiative

- Develop the online mechanism to house, collect, display and search for Arctic biodiversity related data, maps and graphics for decision making.
- The Arctic Spatial Data Infrastructure (Arctic SDI) is an initiative from the national mapping organisations of all eight Arctic Council countries to collect and exchange spatially referenced data on the Arctic to create a harmonized map of the entire Arctic region.

### 2017 Deliverables

Digital Elevation Model ; Arctic SDI user case studies report; CAFF Data holdings on ABDS; ABDA Progress report

CAFF

Status: **On Track**

## 12. Education

Contact

### Description of this initiative

CAFF has developed “educational kits” that communicate information to schoolchildren in the Arctic (10- 11 years old) about key Arctic ecosystems and processes. This is the first step in a process to expand CAFF activities to these audiences. CAFF’s Communications Strategy identifies four priority target audiences, one of which is Arctic residents. A gap exists in CAFF’s communication to this audience, in particular younger audiences (as identified by the Arctic Biodiversity Congress and ABA recommendation #17).

### 2017 Deliverables

A set of educational toolkits (life linked to spring, tundra and ponds)

CAFF

Status: **On Track**

## 13. Mainstreaming

Contact

### Description of this initiative

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.” Implementation of this recommendation requires establishing a clear framework that defines and develops: 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. TEEB Study (Completed): A scoping study on ecosystem services and the application of a TEEB approach and methodology in the Arctic.

### 2017 Deliverables

Biodiversity Principles: Background paper; The Economics of Ecosystems and Biodiversity (TEEB) for the Arctic: A Scoping Study and Executive Summary

CAFF

Status: **Delayed**

## 14. Salmon peoples of Arctic rivers

Contact

### Description of this initiative

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.

### 2017 Deliverables

EPPR

Status: **On Track**

## 01. Arctic Rescue - 2014

Contact

### Description of this initiative

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.

### 2017 Deliverables

[Blank]

EPPR

Status: **On Track**

## 02. Development of Safety Systems in Implementation of Economic and Infrastructure Projects

Contact

### Description of this initiative

Improvement of industrial and environmental safety related to economic and infrastructural projects (primarily development of hydrocarbons on the Arctic continental shelf and hydrocarbons transportation)

### 2017 Deliverables

[Blank]

EPPR

Status: **On Track**

## 08. Maintain and update the operational guidelines attached to the Agreement on Cooperation on Marine Oil Pollution Preparedness and Response

Contact

### Description of this initiative

Maintain and update the operational guidelines as required

### 2017 Deliverables

After-action report from TTX

EPPR

Status: On Track

## 09. Coordination and practical implementation of the SAR agreement

Contact

### Description of this initiative

In March 2015, SAOs expanded EPPR's mandate to include search and rescue (SAR) including followup to the SAR Agreement. EPPR is currently in the process of identifying short, medium and long term issues relevant to the SAR Agreement.

### 2017 Deliverables

[Blank]

EPPR

Status: On Track

## 12. Prevention, Preparedness and Response for small communities

Contact

### Description of this initiative

At the EPPR I 2015 and at the October 2015 scoping workshop, it was agreed that the project would focus on oil spill PPR in small communities.

### 2017 Deliverables

The possible deliverables are a self-evaluation matrix for communities, handbook to assist small communities in developing response plans and a video.

EPPR

Status:

## 13. Remotely Piloted Aircraft for Emergency Response

Contact

### Description of this initiative

[Blank]

### 2017 Deliverables

[Blank]

EPPR

Status: **On Track**

## 14. Development of a Database of Arctic Response Assets

Contact

### Description of this initiative

The objective for the project is to develop a stand-alone, spatially searchable database using off-the-shelf software that would contain all Arctic specific oil spill response equipment, vessels, and resources located in each Arctic nation. The database should be easily uploaded to GIS-enabled applications.

### 2017 Deliverables

Database and user manual

EPPR

Status: **On Track**

## ARCSAFE

Contact

### Description of this initiative

(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))

The main goal is to promote cooperation and network-activities among the Arctic Council countries in order to strengthen cross-border prevention, preparedness and handling of maritime incidents or accidents which may involve a potential release of radioactive substances. The proposed project will serve as an arena/umbrella, bringing together different national and international authorities and stakeholders to promote cross border networking, experience exchange, and participation in joint exercises, with the aim of preventing accidents and incidents and improving the preparedness and handling of potential accidents in a best possible way from risk assessment to the elimination of consequences.

### 2017 Deliverables

To be discussed at EPPR II 2016.

EPPR

Status: **On Track**

## Conditions on Oil Spill Circumpolar Response Viability Analysis

Contact

### Description of this initiative

(Formerly Circumpolar Oil Spill Response Gap Analysis) The purpose of the RVA is to address the specific subset of challenges (climatic and oceanographic properties) present in the Arctic and to undertake a comprehensive overview of oil spill response limitations and the effectiveness of the range of response strategies under Arctic conditions. The RVA would estimate how often different types of response systems could be deployed in different areas of the Arctic.

### 2017 Deliverables

The final report, to be prepared by the consultants DNV GL and Nuka, with input from EPPR, will be submitted to for approval at the 2017 Ministerial meeting.

EPPR

Status: **On Track**

## Follow-up on the Framework Plan on Oil Pollution Prevention

Contact

### Description of this initiative

At the SAO meeting in Anchorage (October 2015), it was agreed that EPPR has the lead on prevention, with PAME as co-lead.

### 2017 Deliverables

Report and matrix Arctic Council status on implementation of the "Framework Plan for Cooperation on Prevention of Oil Pollution from Petroleum and Maritime Activities in the Marine Areas of the Arctic"

EPPR

Status: **On Track**

## International Standards for Petroleum, Offshore Oil and Maritime Industries

Contact

### Description of this initiative

The purpose of the work is to describe how necessary engineering and technical standards are identified, developed, established and maintained. Further to describe the work done by various international trade groups and standards organizations who participate in the various phases of the work. The final report will be a useful knowledge base for improved understanding on the development and maintenance of standards in the Arctic to prevent potential accidents with subsequent oil pollution from offshore petroleum and maritime activities.

### 2017 Deliverables

The report "Standards for the Prevention of Oil Spills from Offshore Oil and Maritime Activities in the Arctic"

EPPR

Status: **On Track**

## Update of Field Guide for Oil Spill Response in Arctic Waters

Contact

### Description of this initiative

At EPPR I in Svalbard, the idea of updating the 1998 version of the Field Guide for Oil Spill Response in Arctic Waters was briefly discussed. The U.S. is prepared to lead the update and requested assistance from other EPPR delegations.

Linkages to the work being undertaken in the PPR in Small Communities Project was noted, and it was agreed that a community perspective should be included in the update.

### 2017 Deliverables

The updated guide will be a deliverable for the 2017 Ministerial meeting.

PAME

Status: On Track

## 01. Arctic Marine Shipping Assessment I (A) (AMSA) – Linking with International Organizations

Contact

### Description of this initiative

Continue to monitor and identify opportunities to engage with international organizations (IMO, ISO, IALA, WMO etc) to advance implementation of AMSA recommendations.

Input from other Arctic Council Working Groups will be sought on the paper titled “Closer Cooperation and Collaboration between PAME and the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA)” Taking into account any input received, the USA will submit to PAME II-2016 a proposed draft project plan that sets forth issues of common interest on which IALA, PAME and, if requested, other Arctic Council working groups, can collaborate to advance safe and environmentally sound Arctic shipping. Michael Kingston of the Marine, Trade & Energy Group, DWF LLP gave a presentation on the role of marine insurance in support of the Polar Code, and will work with the Shipping Expert Group to submit a paper to PAME II-2016 elaborating upon his proposal for an “Arctic Shipping Best Practices Information Forum.”

A representative of the Arctic Coast Guard Forum will make a presentation at PAME II-2016 on its mandate and mission as well as on issues of common interest between the two groups.

A representative of the Arctic Economic Council’s Working Group on Maritime Transportation will make a presentation at PAME II-2016 on its mandate, projects and activities as well as on issues of common interest between the two groups.

The Arctic Regional Hydrographic Commission (ARHC) submitted a report to PAME II-2016 on its recent work, including any further developments on Arctic Voyage Planning Guides and ARHC plans to develop a marine spatial data infrastructure for the Arctic.

A representative from UNEP will give a presentation at PAME-II on its global initiative on marine litter within its Regional Seas Programme.

A representative from France will make a presentation on their Arctic interests.

### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

PAME

Status: On Track

## 02. Arctic Marine Shipping Assessment I (A) (AMSA) - Linking with International Organizations

Contact

### Description of this initiative

PAME in cooperation with the IMO and World Maritime University (WMU) convened an International Conference on Safe and Sustainable Shipping in a Changing Arctic Environment (ShipArc 2015) 25-28 August 2015 in Malmö, Sweden.

Additions to be made following PAME II-2016.

### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

PAME

Status: **On Track**

### 03. AMSA I(B) – IMO Measures for Arctic Shipping

Contact

#### Description of this initiative

HFO Phase III. Compendium of case study information on maritime incidents in the Arctic that resulted in a spill or release of HFO and the environmental impact thereof (USA led)  
HFO Phase III(b): project that describes the technical challenges and risks that arise from using HFO as fuel for ships especially in cold climates (Norway Led)  
Final version of the HFO Phase III(a) paper titled "Heavy Fuel Oil releases from Shipping in the Arctic" (USA lead) and final HFO Phase III(b) project report on "Possible Hazards for Engines and Fuel Systems Using Heavy Fuel Oil in Cold Climates" (Norway lead) will be submitted to PAME II-2016  
Member States, Permanent Participants and Observers invited to submit to the Shipping Expert Group by 1 June 2016 proposals for mitigating the risks associated with the use and carriage of HFO by vessels in the Arctic. PAME instructs the Shipping Expert Group, based on its previous work as well as additional information received, to submit to PAME II-2016 a paper that proposes recommendations to mitigate these risks.

Expected ministerial deliverables 2017:

Included in the progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period and as the following two reports:

- (1) HFO Phase III(a): Heavy Fuel Oil releases from Shipping in the Arctic.
- (2) HFO Phase III(b): Possible Hazards for Engines and Fuels Systems Using Heavy Fuel Oil in Cold Climates.

#### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" for 2015-7. / Two reports on heavy fuel oil in the Arctic, one related to shipping and one related to engines and fuel systems using HFO.

PAME

Status: **On Track**

### 04. AMSA I(D) – Strengthen Passenger Ship Safety in Arctic Waters

Contact

#### Description of this initiative

Follow-up to the Arctic Marine Tourism Project released a best Practice Guidelines document in April 2015.

Canada, the USA and Norway will submit a paper identifying potential specific Arctic Marine Tourism Project (AMTP) follow-up activities for consideration at PAME II-2016.

#### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Additional report for the 2015-2017 period.

## PAME

Status: On Track

### 05. AMSA II(A) – Survey of Arctic Indigenous Marine Use

Contact

#### Description of this initiative

In 2013 the AIA began work on the first phase of a three phase project on building an Arctic marine subsistence use mapping tool which will allow communities to produce scientifically justifiable maps of their subsistence use in the marine environment. The project has since evolved and now includes the Korean Maritime Institute as its partners. AIA had noted interest in additional partners to allow the project to move forward in additional communities.

#### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

## PAME

Status: On Track

### 06. AMSA II(D) – Specially Designated Arctic Marine Areas

Contact

#### Description of this initiative

Taking into account the AMSA II(C) Report and the two Arctic high seas EBSAs identified by the Convention on Biodiversity, invited AMAP and CAFF to denote areas within the high seas area of the Central Arctic Ocean that are particularly vulnerable to shipping. Once that information is received from AMAP and CAFF, PAME will further explore possible international protection measures that could be pursued by Arctic States, individually or collectively, at the IMO.

Development of Arctic Regional Reception Facilities Plan (RRFP) as a long-term solution to help meet the challenges posed by the expected increases in Arctic shipping activities. The aim is to allow for the environmentally sound management of ship waste and ensure that ships can comply with MARPOL requirements for the proper disposal of ship generated waste. This project does not attempt to circumvent or supplant any work by the IMO or other international body with recognized competence, and is in keeping with established principles and existing IMO/MARPOL guidance. It will complement work being undertaken by IMO.

Continued work of the Regional Reception Facilities (RRF) Expert Group (EG) in consideration and input into the ongoing work of the RRF-EG is encouraged from all Arctic States, Permanent Participants and Observers. The ICES/PAME Working Group on Integrated Ecosystem Assessment for the Central Arctic Ocean (WGICA) will have as one of the items of work to consider vulnerability of the ecosystem of the Central Arctic Ocean in relation to climate change and Arctic shipping, and welcomes progress report on that work at future meetings. Norway will provide an update on the status of current ship traffic in the high seas areas of the Central Arctic Ocean to PAME II-2016.

#### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

A final Arctic RRFP report.

## PAME

Status: **On Track**

### 07. AMSA II(E) - Protection from Invasive Species

Contact

#### Description of this initiative

PAME has partnered with CAFF in its project to develop a strategy to prevent the introduction of alien and aquatic invasive species into Arctic ecosystems (Invasive Species Project). PAME's contributions to this project, scheduled for delivery to the 2017 Arctic Ministerial Meeting, will include the following: (1) provide all PAME information papers related to aquatic invasive species; (2) participate in the project steering committee; (3) and review any documents as needed and contribute to the development of the project report and its policy recommendations.

The USA will make a presentation at PAME II-2016 to the Shipping Expert Group on Hazard Analysis Critical Control Point (HACCP) planning, including its potential application to Arctic marine transportation activities. PAME also invites the USA to submit a proposal for a pilot project that would apply HACCP to Arctic marine transportation activities.

#### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

## PAME

Status: **On Track**

### 08. AMSA II(F) - Oil Spill Prevention

Contact

#### Description of this initiative

Contribute to the TFOPP implementation matrix as it relates to PAME's work.

#### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

## PAME

Status: **On Track**

### 09. AMSA II(G) – Address impacts on Marine Mammals

Contact

#### Description of this initiative

Collaborate with other AC working groups to monitor and provide support for work related to the impact of shipping on marine mammals.

#### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

PAME

Status: **On Track**

## 10. AMSA II(H) – Reduce Air Emissions

Contact

### Description of this initiative

PAME will continue to explore how best it could use information it compiles on emissions (especially black carbon) from ships in the Arctic and their effects on the marine environment, including in cooperation with other working groups, in particular AMAP, to support reductions in ship air emissions.

PAME continues to invite Arctic stakeholders to augment the consolidated bibliography of ship air emission publications posted to the PAME website.

Norway to submit a brief update on IMO's work with respect to black carbon to the Shipping Expert Group at PAME II-2016.

### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

PAME

Status: **On Track**

## 11. AMSA III(A) – Address the infrastructure Deficit

Contact

### Description of this initiative

Regular updates and status provided on infrastructure aspects such as the IMO's GISIS Port Reception Facility database.

### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

PAME

Status: **On Track**

## 12. AMSA III(B) – Arctic Marine Traffic Systems

Contact

### Description of this initiative

PAME approved the Arctic Shipping Traffic project plan as developed by the Arctic shipping Traffic Data (ASTD) expert group subject to circulation and inputs from other Arctic Council working groups and subsidiary bodies. The project will build on work related to vessel traffic monitoring and tracking and build on the AMSA 2005 shipping database and develop an Arctic shipping database.

The ASTD expert group has started Phase II, including the development of a draft systems design document taking into account any intercessional input obtained from PAME's Shipping Expert Group and other Arctic Council working groups and subsidiary bodies and the Memorandum of understanding on data sharing.

### 2017 Deliverables

Progress/status provided in the "Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

ASTD project plan and launching of an agreed ship traffic database and the first set of related products.

PAME

Status: **On Track**

## 12. AMSA III(D) – Investing in Hydrographic, Meteorological and Oceanographic Data

Contact

### Description of this initiative

The USA will undertake an informal review of the 1st World Ocean Assessment, giving particular consideration to those chapters relating to shipping in the Arctic and current and proposed PAME work on shipping-related issues, and provide a report to the Shipping Expert Group at PAME II-2016.

### 2017 Deliverables

[Blank]

PAME

Status: **On Track**

## 14. AMSA implementation progress report

Contact

### Description of this initiative

PAME provides biennial AMSA shipping progress implementation reports for submission to AC Ministerial meetings. This report addresses work pursuant to other Arctic Council shipping mandates and recommendations.

### 2017 Deliverables

Status of the Implementation of the AMSA 2009 Recommendations" Report for the 2015-2017 period.

PAME

Status: On Track

## 16. Meaningful Engagement of Arctic Indigenous Peoples and Local Communities in Marine Activities (MEMA)

Contact

### Description of this initiative

Progress reporting made at PAME I-2016 and the next steps include:

- 1) Analyze the information in the database and prepare a narrative summary of the analysis.
- 2) Plan a workshop on Best Practices for engagement to be held on the 17th of September in conjunction with PAME II-2016, and draft a workshop summary.
- 3) Draft main findings and conclusions.

The Project Team will continue exploring collaboration with SDWG.

[Project description follows]

The MEMA is a "stock-taking" exercise for the existing and available recommendations, guidance, requirements and declarations on engagement of indigenous people and local communities for marine activities. The project is not intended to make any new recommendations or assess their effectiveness or implementation. The MEMA project team includes members of the Oil and Gas Contact Group, Shipping Expert Group and MPA Expert Group in collaboration with the co-leads.

The Meaningful Engagement of Arctic Indigenous Peoples and Local Communities in Marine Activities project (MEMA) is progressing according to plan and the project team continues to explore collaboration with SDWG. Next steps include analyzes of the information in the database and prepare a narrative summary of the analysis and planning of a workshop on Best Practices for engagement to be held on the 17th of September in conjunction with PAME II-2016, and draft a workshop summary.

Full account has been taken with respect to the EPPR Small Community PPR project to ensure no overlap. The MEMA project is an inventory of existing information whereas the SCPPR project is working toward identifying gaps and problems making recommendations and solutions.

### 2017 Deliverables

A Final Report summarizing the database analysis with an Executive Summary, Findings and Conclusions.

## PAME

Status: **On Track**

### 17. Updates of the AOOGG 2009 and Response to AMSP Strategic Actions and TFOPP Framework

Contact

#### Description of this initiative

The MEMA project compiles and analyzes existing documents and summarize their main aspects, principles, and processes for engagement of indigenous peoples and local communities. The project covers all Arctic marine and coastal activities, including shipping, offshore oil and gas activities, coastal infrastructure development, and research and management activities. The information to be compiled will come from Arctic Council documents and reports, national legal regimes and guidance of Arctic states, guidelines and declarations from communities and indigenous organizations, international instruments, and guidance from industry, NGO's and other stakeholders.

The Oil and Gas Contact Group will consider the development of project proposals for the following activities: Possible updates to the sections of the AOOGG 2009 for environmental monitoring of operations, waste management, discharge of chemicals, and emissions for possible inclusion in the PAME Work Plan 2017-2019. Respond as appropriate to AMSP Strategic actions and Themes and Projects of the 2015-2017 United States Arctic Council Chairmanship.

The Oil and Gas Contact Group will develop a concept paper on updating non-emergency operating practices and environmental monitoring sections of the AOOGG (2009) for consideration at PAME II-2016.

EPPR and relevant external bodies, such as the Arctic Offshore Oil and Gas Regulators Forum, OSPAR and Oil and Gas Producers will be invited to make presentations at future PAME meetings on International on non-emergency operating practices and environmental monitoring.

The Oil and Gas Contact Group will develop an implementation Tracking Matrix for the recommendations of the 2014 "Arctic Offshore Oil and Gas Guidelines Systems Safety Management and Safety Culture Report: Avoiding Major Disasters in Arctic Offshore Oil and Gas Operations", to be considered for adoption at the PAME II 2016 meeting

#### 2017 Deliverables

Details to be determined

## PAME

Status: **On Track**

### 18. Arctic Offshore Oil and Gas Regulatory Resource (AOOGRR)

Contact

#### Description of this initiative

Ongoing / Website (was launched in May 2013 and provides indexed access to information and data on national entities and agencies websites related to management, regulation, and enforcement of Arctic offshore oil and gas activities. (online May 2013) / Annual spring updates

#### 2017 Deliverables

Website has been opened up for access and will be updated once per year. Next overview is due in January 2016.

PAME

Status: **On Track**

## 19. Arctic Ocean Review follow-up

Contact

### Description of this initiative

Follow up to the AOR Final Report recommendations has been incorporated into the AMSP 2015-2025 and other PAME activities, as relevant.

### 2017 Deliverables

Contributions to AOR follow-up is identified in all PAME activities as relevant, including the AMSP implementation reporting for the period 2015-2017.

PAME

Status: **On Track**

## 20. Implementation of the Arctic Council Marine Strategic Plan (AMSP 2015-2025)

Contact

### Description of this initiative

The aim is to systematically track status of the AMSP's 40 strategic actions.

PAME has agreed to the final version of the AMSP Communication Plan and the AMSP Implementation Plan, including the AMSP implementation tracking table, and encourages close involvement of other Arctic Council working groups and subsidiary bodies in reporting progress on its strategic actions and note the usefulness of using this in developing respective work plan items and contributing to collaboration on cross-cutting issues, as relevant.

The tracking table is a living document to be modified as needed to best serve its purpose.

The Arctic Marine Strategic Plan (AMSP) 2015-2025 was approved by the Arctic Council ministers at their meeting in Iqaluit, Canada on 24th of April 2015. With reference to AMSP, Section 8.0 on Implementation, 1st draft proposal and roadmap to prepare AMSP implementation plan has been prepared and was discussed at the PAME II-2015 meeting and distributed to other Arctic Council working groups. The aim of an Implementation Plan for the AMSP 2015-2025 forty strategic actions is to provide a structured approach that tracks follow-up activities (new and ongoing) in close coordination and cooperation with other Arctic Council working groups with overall guidance from the SAOs.

### 2017 Deliverables

1st status report on the AMSP Implementation Plan.

PAME

Status: On Track

## 22. Ecosystem Approach to Management

Contact

### Description of this initiative

The work of the Ecosystem Approach expert group (EA-EG) is proceeding according to its Terms of Reference (ToRs) for the period 2015-2017 which was developed for the joint EA-EG in consultations with AMAP, CAFF and SDWG. These ToRs were developed in response to the following recommendation of the EBM Expert Group (Kiruna 2013): "Identify a lead to assure coordination of a common approach to the work of the Arctic Council on EBM in the Arctic and ensure appropriate reporting of progress to the Senior Arctic Officials" in addition to other marine-specific EBM recommendations in the Kiruna Declaration. Six elements are recognized for the implementation of the EA to management and form the basis of the work of this expert group.

PAME produces progress reports on the work of the Ecosystem Approach expert group (EA-EG) describing work. The year 2016 included the planning of the international conference on status of implementation of the Ecosystem Approach to management in the Arctic, held in Fairbanks, Alaska, 23-25 August 2016. Over 70 participants from Arctic Member States, Permanent Participants and others took part in the conference. PAME has participated in the work of the new ICES/PAME Working Group on Integrated Ecosystem Assessment for the Central Arctic Ocean (WGICA) and its terms of reference as approved by ICES. The WGICA met at the ICES headquarters in Copenhagen, 24-26 May 2016. It is expected that AMAP and CAFF will join as co-sponsors of WGICA from 2017. The PAME Secretariat will circulate the terms of reference to its members. There have been some delays in production of the report "Status of Setting Ecological Objectives in the Arctic" based on the background document on ecological objectives, included as Annex III of the 5th EA workshop report from Bergen last May. Arctic States, PPs and observers are again invited to contribute more information to be used in this report, according to the recommendations from the 5th workshop by May 15.

### 2017 Deliverables

Progress Report on the Ecosystem Approach work as per the EA-EG 2015-2017 work plan items. / Conference report from the International Conference "EA in the Arctic: Status of Implementation"

## PAME

Status: **On Track**

### 23. Enhance PAME's work on a Pan-Arctic Network of Marine Protected Areas (MPA)

Contact

#### Description of this initiative

[Full notes to SAOs, September 2016]

Status on progress:

- Each country provided updated protected areas datasets which were harmonized and processed into a database on protected areas for the Arctic.
- 1st draft of the "Arctic Protected Areas Indicator" report was circulated to CAFF and PAME national representatives on 31st of May 2016 with deadline for comments by 29th of June 2016.
- Report timeline has been extended to allow for incorporation of additional data received into the protected areas database.
- Based on additional data received the 2nd draft of the "Arctic Protected Areas Indicator" report is under revision and is scheduled to be circulated for review in October 2016. This report measures the extent of protected areas across the Arctic (marine and terrestrial) and PAMEs input and relevance is with respect to the marine portion of the report. Coordinate with your respective CAFF counterpart would be beneficial as relevant.
- Release of harmonized dataset and the "Arctic Protected Areas Indicator" report has thus been rescheduled in Nov/Dec 2016 (original timeline was: Jun-Aug 2016).
- Next steps will be informed by the outcomes of the connectivity workshop scheduled for September 22-23

[Project description]

The Framework for a Pan-Arctic Network of MPAs was approved by the Arctic Council ministers at their meeting in Iqaluit, Canada on 24th of April 2015. Follow-up on this framework is one of the U.S. Chairmanship priorities. PAME is contributing to this work through three activities that include contributions to: 1) the MEMA project; 2) inventory and mapping of existing Arctic MPAs, and 3) desktop study on area-based conservation measures and its linkages to categories of Arctic marine biodiversity.

PAME agreed to a revised timeline to finalize the inventory mapping of existing Arctic MPAs project (joint effort by the PAME and CAFF and Secretariat) with release harmonized dataset and status/trends (indicator) report in August 2016.

The USA is the lead on the "Desktop study on area-based conservation measures and its linkages to categories of Arctic marine biodiversity "Toolbox" project and is in the process of updating the project description including more detailed information on the following two proposed connectivity workshops:

- The 1st connectivity workshop to identify and vet models for migratory species and larval dispersal, be held 22-23 September 2016 on the east coast of the USA.
- The 2nd connectivity workshop integrating 1st workshop models with climate change and reviewing management tools for protecting connectivity, be held in the October/November 2016 timeframe.

PAME is in cooperation with CAFF, in the MPA activities and workshops.

A joint PAME/CAFF proposal is under revision by the USA for the IUCN World Conservation Congress which will take place in Hawaii 1-10 September 2016.

#### 2017 Deliverables

Release of harmonized dataset and the "Arctic Protected Areas Indicator" report.

PAME

Status: **On Track**

## 25. Follow-up of the Arctic Biodiversity Assessment

Contact

### Description of this initiative

Follow up on ABA recommendations as appropriate to PAME mandate has been incorporated into the AMSP 2015-2025.

### 2017 Deliverables

As a part of the AMSP implementation reporting for the period 2015-2017.

PAME

Status:

## 26. Adaptation Actions for a Changing Arctic (AACA) part c

Contact

### Description of this initiative

Provide input for AACA part C to AMAP as required and Incorporated into a implementation plan/follow-up matrix that is being developed for the Arctic Ocean Review recommendations as it relates to PAME's

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 01. Arctic Human Development Report II (AHDR-II)

Contact

### Description of this initiative

The Arctic Human Development Report II (AHDR-II) provides a decadal update and synthesis report on the state of human development in the Arctic.

### 2017 Deliverables

[Blank]

SDWG

Status:

## 02. Assessing, Monitoring and Promoting Arctic Indigenous Languages

Contact

### Description of this initiative

Building on the Inuit Circumpolar Council's 2008 SDWG work in the same area, a follow-up Arctic Indigenous Languages Assessment Symposium was held February 10-12, 2015 in Ottawa, with strong youth participation, to present the Project's findings and facilitate knowledge transmission. Other deliverables under the Canadian Chairmanship include a Symposium Report, for information only, as well as a Project status report on the activities for 2013-15. The Arctic languages website (<http://www.arcticlanguages.com>) was launched in 2013 as an early project deliverable and features a large collection of electronic language learning tools as well as a repository of academic articles related to Arctic indigenous languages. Follow-on activities under consideration.

### 2017 Deliverables

[Blank]

SDWG

Status:

## 03. A Circumpolar-wide Inuit Response to the AMSA

Contact

### Description of this initiative

Communicate findings of the AMSA to Inuit and seek guidance on moving AMSA forward / Expand earlier survey on Inuit use of sea and sea ice to assess how current Inuit use of sea and sea-ice is impacted by Arctic shipping.

### 2017 Deliverables

[Blank]

SDWG

Status:

## 04. Electronic Memory of the Arctic

Contact

### Description of this initiative

Electronic information resources from libraries museums, Arctic Council archives, expert blog of EMA portal will allow experts to discuss issues on history of geographical discoveries and exploration, industry, geology, nature, folklore and literature of the circumpolar world, artistic heritage, ethnography (Russian driven).

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 05. Reindeer Herding and Youth (EALLIN)

Contact

### Description of this initiative

Building on the work of the SDWG's 2009 EALAT Reindeer Herders' Voice project, efforts are ongoing to maintain and further develop sustainable reindeer husbandry in the Arctic / Work towards a vision of creating a better life for circumpolar reindeer herders / Continue to promote knowledge building. See follow-on project EALLU.

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 06. Gender and Equity in the Arctic

Contact

### Description of this initiative

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 possible follow-on project proposal will be under consideration at SDWG Orono meeting, 01-02 October 2016.

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 07. Integrating Traditional and Local Knowledge

Contact

### Description of this initiative

Develop recommendations to integrate traditional and local knowledge into the work of the Arctic Council. Possible follow-on activities are under consideration by the SDWG.

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 08. Promoting Mental Wellness in Northern Circumpolar Communities

Contact

### Description of this initiative

Builds on the outcomes and recommendations of the Nuuk Hope and Resilience seminar (2009) and enhances the evidence base to promote mental wellness in circumpolar communities. Two research teams assessed circumpolar approaches to mental wellness and the potential for adapting interventions into other regions.

A symposium was held in Iqaluit, Canada in March 2015 in order to provide a forum to present findings, transfer knowledge, foster collaboration, and showcase best practices. See follow-on project RISING SUN.

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 09. Arctic Adaptation Exchange: Facilitating Adaptation to Climate Change

Contact

### Description of this initiative

The Arctic Adaptation Exchange online portal builds on the ongoing adaptation work of the Arctic Council, notably the Adaptation Actions for a Changing Arctic project (AACCA). The portal will serve as a central information hub for communities, researchers, and decision-makers across a variety of sectors by bringing the Arctic Council's work on adaptation, along with other relevant resources, together in one place in support of information exchange and decision-making. Follow-on activities are under consideration.

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 10. Review of Cancer Among Circumpolar Indigenous Peoples

Contact

### Description of this initiative

The project addresses cancer as an emerging health concern among circumpolar Indigenous Peoples, and recognizes the need for effective prevention and control measures through reliable surveillance data. Drawing on regional data specific to Indigenous populations, this project reviewed the patterns and trends of cancer among Arctic Indigenous Peoples.

### 2017 Deliverables

[Blank]

SDWG

Status: **Completed**

## 11. Arctic Energy Summit

Contact

### Description of this initiative

The Arctic Energy Summit (AES), convened a multi-disciplinary event in Fairbanks, Alaska in September 2015 that drew together industry executives, government agency officials and policy makers, researchers, energy professionals and community leaders to collaborate on and share innovative approaches to Arctic energy issues. The 2015 Summit addressed renewable energy, oil and gas exploration and production, remote and rural heat and power, and energy transportation and transmission. Follow-on activities during the Finnish Chairmanship (2017-2019) are under consideration.

### 2017 Deliverables

N/A - designated project. A Final Executive Summary and Report are available.

SDWG

Status: **On Track**

## 12. Arctic Remote Energy Networks Academy (ARENA)

Contact

### Description of this initiative

ARENA 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.

### 2017 Deliverables

Curriculum, cohort determination, webinar series. (Note: The project will complete its in-person workshops in mid-2017 and deliver a final report during the Finnish Chairmanship.)

SDWG

Status: **On Track**

### 13. Arctic Indigenous Youth, Climate Change and Food Culture (EALLU)

Contact

#### Description of this initiative

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. Sub-goals of the project include:

- To build awareness of Arctic climate change in northern indigenous youth societies, through enhanced resilience;
- To document, systematize, make use of and respect the Traditional Knowledge of food cultures of Arctic indigenous/reindeer herding peoples;
- To work towards knowledge building and experience exchange in and between local indigenous/reindeer herding societies in the Arctic, focusing on food culture and youth;
- To increase focus on and understanding of Arctic indigenous food cultures and value added, by disseminating and giving a voice to the Traditional Knowledge and food cultures of Arctic indigenous peoples, including by use of ReindeerPortal.org and ArcticPortal.org;
- To stimulate knowledge development for innovation, business development and local value added in Arctic indigenous peoples' societies and areas, in appropriate ways, working in the intersection between academia and business, between science and traditional knowledge, and between "modernity" and traditions.

To these ends, the project 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. This project also has an additional goal to be a sustainable project, ie. to contribute directly to capacity building in Arctic indigenous societies by virtue of the project contents and process. This project is initiated and led by Arctic indigenous peoples themselves. It shall contribute to enhancing local capacity by competence and confidence building, project experience generation and international exposure for indigenous youth.

The project will voice the Traditional Knowledge on food culture of Arctic indigenous peoples, carried by elders and disseminated by youth, thereby also bridging gaps between generations for preservation of unique Arctic knowledge. The project will ensure gender equality among participants, also in accordance with the Aoluguya Declaration on the occasion of the 5th World Reindeer Herders Congress in 2013.

Actually, the main focus on food culture will in itself naturally balance gender in the project: Given indigenous reindeer herding women's traditionally strong roles and knowledge in terms of food culture, food preparation and so on, women would have to take an important part in the work. The project will follow the ethical guidelines for handling of Traditional Knowledge developed by ICR (Sundset et al. 2007), as well as the drafted principles for inclusion of Traditional Knowledge into the work of the Arctic Council (cf. the Ottawa workshop).

#### 2017 Deliverables

(1) Arctic Council cookbook on indigenous food (2) Short documentary/outreach movies focused on indigenous food culture (3) Course development on Traditional Knowledge and CBD (4) Community-based workshops and seminars with Arctic indigenous youth.

SDWG

Status: On Track

## 14. Improving Health through Safe and Affordable Access to Household Running Water and Sewer (WASH)

Contact

### Description of this initiative

This project focuses on water-related health challenges in Arctic and Sub-Arctic communities. The core scientific activity of this project is a survey by the Arctic Health Human Experts Group (AHHEG) of WASH infrastructure and the diseases related to insufficient household water quality or quantity. Key project activities include: an international WASH conference in April 2016 in Sisimiut, Greenland (complete); a WASH conference September 18-21, 2016 in Anchorage (forthcoming); an online survey that assesses the current state of WASH in the Arctic (on-going). There will also be written summaries of both conferences made available. TLK collaboration is integral to the project design. TLK holders' perspectives will be sought on the workability of technologies in their communities.

### 2017 Deliverables

2017 deliverable: final report

SDWG

Status: On Track

## 15. Operationalizing a One Health approach in the Arctic (One Health)

Contact

### Description of this initiative

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. TLK holders are to be represented in the leadership team to develop strategy for implementing an Arctic One Health framework and are to be actively involved in forthcoming Table Top Exercises, as well as future "on-the-ground" activities.

### 2017 Deliverables

2017 deliverable: final report

SDWG

Status: On Track

## 16. Reducing the Incidence of Suicide in Indigenous Groups - Strengths United through Networks (RISING-SUN)

Contact

### Description of this initiative

RISING SUN is designed to create a common, science-based set of metrics to evaluate the key correlates and outcomes associated with suicide prevention interventions, across Arctic states. Common metrics, developed through an on-going engagement with Permanent Participants and community leaders, as well as mental health experts, will facilitate data sharing and pooling, evaluation, and interpretation of interventions across service systems. These metrics will aid health workers to better serve the needs of their communities while helping policymakers measure progress, evaluate the scale-up of interventions, and identify impediments to implementation and cultural adaptability challenges. The core of RISING SUN will be a series of three meetings. Two of these meetings have already taken place (Sept 2015 in Anchorage; May 2016 in Tromsø). Community members, many of whom may be TLK holders, have been/will be invited and strongly encouraged to participate in all three meetings.

### 2017 Deliverables

A final report synthesizing results from the described activities; toolkit of best practices for practitioners

SDWG

Status: On Track

## 17. The Economy of the North 2015 (ECONOR III)

Contact

### Description of this initiative

ECONOR III will provide an updated overview of the economy, socio-economic living conditions and environmental issues in the circumpolar Arctic, as impacted by the global economy and climate change. This report follows upon ECONOR I, (2006) and ECONOR II (2008). The ECONOR projects seek to harmonize socio-economic statistical data across national and regional borders. The ECONOR III project expresses the importance of TLK for understanding the characteristics of the economy of the north. Traditional and Local Knowledge is integrated in a chapter that describes traditional living, the subsistence activities and their relationship to the market economy.

### 2017 Deliverables

Final Report: ECONOR III: "The Economy of the North 2015".

## SDWG

Status: **On Track**

### 18. The Arctic as a Food Producing Region

Contact

#### Description of this initiative

The project takes a multi-disciplinary approach in assessing the potential for increased production and added value of food from the Arctic, with the overarching aim of improving food security, and enhancing the social and economic conditions of Arctic communities. By focusing on biological (climate change), commercial (commercial resources, infrastructure and resource and industry policy), cultural (food traditions and organization of food chains) and market conditions (local, national and international), this project will identify potential pathways for Arctic food production and distribution. The aim is twofold: 1) to enhance commercial food production 'in the North and for the North' and 2) to develop North to South food production linkages.

#### 2017 Deliverables

Status report for 2017 U.S. Ministerial; Final report for 2019 Finnish Ministerial

## SDWG

Status: **On Track**

### 19. Arctic Renewable Energy Atlas (AREA)

Contact

#### Description of this initiative

The online Arctic Renewable Energy Atlas (AREA) will be 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 will fall 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.

#### 2017 Deliverables

2017 deliverables: project website and online renewable energy resource maps

## Task Force

Status: **On Track**

### Task Force for Enhancing Scientific Cooperation in the Arctic

Contact

#### Description of this initiative

The Kiruna Declaration calls on the Task Force to "...work towards an arrangement on improved scientific research cooperation among the eight Arctic States."

#### 2017 Deliverables

If all goes as planned, the "Agreement on Enhancing Arctic Scientific Cooperation" will be presented for Ministerial signature.

## Task Force

Status: On Track

### Task Force on Arctic Marine Cooperation

Contact

#### Description of this initiative

A report identifying future needs for strengthened cooperation for Arctic marine areas will be presented to SAOs before the 2017 Ministerial for review and approval before submission to Arctic Council Ministers.

#### 2017 Deliverables

A report identifying future needs for strengthened cooperation for Arctic marine areas, as well as whether the Council should begin negotiations on cooperation mechanism for Arctic marine areas.

## Task Force

Status: On Track

### Task Force on Telecommunications Infrastructure in the Arctic (TFTIA)

Contact

#### Description of this initiative

The existing telecommunications infrastructure in the Arctic is not sufficient to meet current demands for modern community needs, regional connectivity, human services, scientific observations, navigation, and support for potential emergency SAR or oil spill response. To adequately meet increased needs of maritime and human activity and to improve the quality of life for Arctic residents, there is a strong need to assess, and ultimately expand telecommunications infrastructure.

#### 2017 Deliverables

The Task Force should deliver a completed assessment to include, among other things, recommendations for public-private partnerships to enhance telecommunications access and service in the Arctic.

## X - Expert Group

Status: On Track

### Expert Group in support of implementation of the Framework for Action on Black Carbon and Methane

Contact

#### Description of this initiative

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 for participating Arctic Council Observer States. This includes preparing, on a once every two-year cycle to the Arctic Council chairmanship, a high level "Summary of Progress and Recommendations" report, with appropriate conclusions and recommendations.

#### 2017 Deliverables

A "Summary of Progress and Recommendations" report, including appropriate conclusions and recommendations, will be presented to Ministers.



## X - Other Projects

Status:

### Arctic Resilience Report

Contact

#### Description of this initiative

Identify the potential for shocks and large shifts in ecosystem services that affect human well-being in the Arctic / Analyze how different drivers of change interact in ways that affect the ability to withstand shocks / Evaluate strategies for adaptation and transformation in the face of rapid change

#### 2017 Deliverables

[Blank]