



## **RECORD OF DECISIONS AND FOLLOW-UP ACTIONS**

**PAME I-2019 (4-7 February 2019)**

**Malmö, Sweden**

### **Opening of the Meeting**

*PAME thanks Sweden for hosting PAME-I 2019 and notes with appreciation the welcoming remarks from Ambassador. Björn Lyrvall, Senior Arctic Official for Sweden and Jessica Nilsson, PAME Head of Delegation for Sweden.*

### **Information and various updates (Agenda Item 3)**

*PAME takes note of:*

- ✓ *Outcomes from the SAO Meeting in November 2018 and preparations for the upcoming SAO Meeting (12-14 March 2019);*
- ✓ *Summary of PAME's sessions on MPA and EA work at the Arctic Biodiversity Congress (9-12 Oct 2018);*
- ✓ *PAME's contributions to the Arctic Council's Environment Ministerial meeting (11-12 Oct 2018);*
- ✓ *The summary of Iceland's 2019-2021 Chairmanship Program including its three main themes: oceans, climate change and the wellbeing of Arctic communities.*

*PAME thanks the representative of the People's Republic of China, Professor Lu Zhibo, for his presentation on China's Arctic interests and contributions to PAME's work.*

*PAME thanks the representative from the World Maritime University, Dr. Lawrence P. Hildebrand for his presentation and hosting a reception.*

### **Framework for a Pan-Arctic Network of Marine Protected Areas (MPAs) (Agenda item 4)**

*PAME thanks Canada for its update on the planning of the 4th MPA workshop on "Exploring ways to support Indigenous/Local involvement in, and Indigenous/Local led, marine protection in the circumpolar Arctic Ocean" to be held 19-21 March 2019 in Cambridge Bay, Nunavut, Canada and invites members to nominate additional participants and speakers as soon as possible.*

*PAME approves Sweden's project proposal on "Modelling Arctic oceanographic connectivity to further develop PAME's MPA-network Toolbox" for inclusion in the 2019-2021 Work Plan. The Project lead will deliver a report from the study to PAME-II 2020, and make freely available the data involved for others to use. PAME welcomes the expression of interest from CAFF to collaborate on this study.*

*PAME approves Finland's project proposal on Factsheets related to MPAs and Indigenous People's Lives in a changing climate for inclusion in PAME's 2019-2021 Work Plan and welcomes collaboration from other interested Arctic Council working groups.*

*PAME welcomes an update, by the PAME and CAFF Secretariats in cooperation with UN Environment Programme WCMC, of the 2017 Arctic Protected Areas Indicator Report in the PAME 2019-2021 Work Plan.*

*PAME welcomes the continued expansion and refinement of the MPA-network Toolbox throughout the 2019-2021 biennium based on the outcomes of the 4<sup>th</sup> MPA workshop and other projects as appropriate.*

*PAME takes note of WWF's presentation on its Pan-Arctic Marine Protected Area Network (PAMPAN) project and potential for collaboration with PAME's ongoing work.*

### ***Protection from Invasive Species (Agenda item 5)***

*PAME thanks Canada for the update on the status of the PAME/CAFF Joint ARIAS Implementation Coordinating Group (ICG) and for its leadership as the PAME co-chair of the ICG.*

*PAME notes the decision by the CAFF to take the lead in a new governance process to coordinate moving forward on the ARIAS action plan items. PAME supports CAFF in that decision, requests the PAME Secretariat to continue liaising with the CAFF Secretariat on the developments of the ICG, and encourages its members to continue to communicate on developments within the ICG through their national delegations and representatives to the ICG.*

### ***Arctic Marine Shipping Assessment (Agenda Item 6)***

#### ***Theme I – Enhanced Arctic Maritime Safety***

##### ***AMSA I (A) - Linking with International Organizations***

*PAME notes that the 3<sup>rd</sup> annual Arctic Shipping Best Practice Information Forum meeting will take place in London, UK on 3-4 June 2019, and invites the Forum Coordinating Committee to finalize planning and preparation for the meeting.*

- ✓ *PAME welcomes the Forum's progress and its collaborative approach to increasing awareness and availability of authoritative information critical to effective implementation of the Polar Code.*
- ✓ *To further strengthen the Forum's web portal, PAME encourages all its members and other Forum participants to provide feedback on the web portal's content as well as to submit additional information for posting via the [hyperlinked submission form](#).*
- ✓ *PAME invites the Forum Coordinating Committee to prepare a draft Information (INF) Paper about the Forum for possible submission by one or more Arctic States to the 101<sup>st</sup> Session of the IMO's Maritime Safety Committee (5-12 June 2019)*
- ✓ *PAME instructs the Forum Coordinating Committee to provide a status report at PAME II-2019 on the outcome of the 3<sup>rd</sup> Forum meeting.*

*PAME invites its members to submit comments to the USA on the draft PAME-ARHC MOU (PAME (1)/19/6.1/b) by 1 June 2019.*

*PAME thanks the WMO for its paper on "Participation in the Voluntary Observing Ships Scheme" (PAME (1)/19/6.1/c) and invites the SEG Co-Chairs to propose steps that PAME could take to raise awareness of the VOS Scheme. PAME encourages Arctic States and*

Observer States to further publicize the VOS Scheme for the purposes of increased membership by ships flying their respective flags.

PAME welcomes the submission of a paper by the Nordic Council of Ministers (NCM) on “Mapping on how the Nordic Countries Enhance their Cooperation in Reducing Risks and Increasing Environmental Security in Arctic Shipping”.

PAME will continue its efforts to strengthen cooperation with international organizations.

### **AMSA I (B) - IMO Measures for Arctic Shipping**

HFO Phase IV (b) – Collect, Report and/or Review Information about On-Shore use by Indigenous Peoples and Local Communities of HFO – PAME invites the project co-leads (USA/AIA/CCU) in cooperation with SDWG to prepare a draft report for PAME II-2019 summarizing the results of the information collected by the field survey. PAME invites one or more Arctic State to consider submitting the report to the 7<sup>th</sup> Session of IMO’s Pollution Prevention and Response (PPR) Sub-Committee in 2020.

HFO Phase IV (d) – Explore the Environmental, Economic, Technical and Practical Aspects of the use by Ships in the Arctic of Alternative Fuels – PAME thanks Kjetil Martinsen of DNV-GL for his presentation on the environmental, economic, technical and practical aspects of the use by ships in the Arctic of alternative fuels. Final report to be distributed to PAME Members.

PAME invites each Arctic State and each Observer State to submit to Norway by end of June 2019 information on how it understands and applies in practice IMO’s Polar Code, using the template created by Norway. Norway is invited to provide a status update at PAME II-2019.

PAME invites each Arctic State and Observer State to submit to PAME II-2019 information on Polar Ship Certificates that have been issued by or on behalf of their maritime administrations. Such information is to include if possible the type of ship, gross registered tonnage and ice class.

PAME encourages Arctic States and Observer States that have not done so to ratify the Cape Town Agreement related to the safety of fishing vessels as soon as possible and contribute to its timely entry into force, and notes the convening of the IMO’s “International Conference on the Safety of Fishing Vessels and IUU Fishing” to be held at Torremolinos, Spain, 21-23 October 2019.

PAME notes the “Special Training Seminar on the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW)” to be hosted by the MOU on Port State Control in the Asia-Pacific Region (Tokyo MOU) in Vladivostok, Russia, on 24-26 September 2019. Among other issues, this seminar will focus on the training of seafarers under the Polar Code.

PAME notes the deferred deadline for the “Safe and Low Impact Shipping Corridors” project (Canada/Iceland/AIA) and invites the submission of comments by 1 June 2019 with the aim to submit a final report to PAME II-2019.

### **Theme II: Protecting Arctic People and the Environment**

#### **AMSA II (c) – Areas of Heightened Ecological and Cultural Significance**

PAME invites its members to submit to PAME II-2019 research reports and related information on grey water discharges from vessels in the Arctic.

#### **AMSA II (g) – Addressing Impacts on Marine Mammals**

PAME invites final comments on the draft State of Knowledge Report on Underwater Noise (Canada/WWF/OSPAR) (PAME (1)/19/6.5/(a)) no later than 11 February 2019.

### **Theme III: Building the Arctic Marine Infrastructure**

#### ***AMSA III (a) – Addressing the Infrastructure Deficit***

*PAME welcomes the decision by all Arctic States to co-sponsor the draft paper related to Regional Reception Facilities project titled “Proposal for a new output to amend MARPOL to allow the establishment of regional arrangements in the Arctic” for submission by the Russian Federation to the 74<sup>th</sup> Session of IMO’s Marine Environment Protection Committee (MEPC) (13-17 May 2019). PAME invites Observer States to support the paper at MEPC 74.*

#### ***AMSA III (b) – Arctic Marine Traffic Systems***

*PAME welcomes the public launch of the Arctic Ship Traffic Data (ASTD) website on 7 February 2019 and notes with appreciation continued progress on the development and expansion of the data repository. PAME invites use of the database in accordance with the ASTD Cooperative Agreement.*

*PAME notes with appreciation the submission by Arctic States of Arctic ship accident information to the joint PAME-EPPR Compendium of Arctic Ship Accidents (CASA) Project. PAME invites the USA to consolidate all data received and submit in advance of PAME II-2019 a revised draft compendium for review. PAME also invites the USA to submit a paper providing a high-level overview of the data to PAME II-2019.*

*PAME welcomes the preliminary plan to hold a workshop in London, UK on 4 June 2019 regarding the engagement of Observers in PAME’s shipping-related activities. PAME invites the co-leads (USA/Italy/Poland/Republic of Korea) to finalize plans for the workshop and inform PAME as soon as feasible.*

#### **Other**

- ✓ *PAME requests the Secretariat to invite a representative from the Icelandic Shipowners’ Association to make a presentation at the SEG pre-meeting at the PAME II-2019 on Arctic shipping.*
- ✓ *PAME requests the Secretariat to invite a representative of an Arctic Council Observer State to submit a paper to PAME II-2019 and make a presentation at that meeting on its Arctic shipping interests and activities.*
- ✓ *PAME welcomes ongoing attendance at its semi-annual meetings by an EPPR representative, including participating in PAME’s Shipping Expert Group.*
- ✓ *PAME approves the Arctic Marine Shipping work plan items for inclusion into the PAME 2017-2019 Work Plan (Annex I).*

### ***Arctic Offshore Resource Exploration and Development (Agenda item 7)***

#### **MEMA:**

- ✓ *PAME notes the update of the Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities project (MEMA) Part II, including recent activities and proposed next steps.*
- ✓ *Project Co-leads requested any final comments as soon as possible. These will be incorporated into the revised draft from the editor. Co-leads will aim to distribute a new track changes version by February 15 for final review, with comments due by February 22, 2019. This will allow the Final MEMA Part II Report to be submitted to SAO’s by February 26, 2019. PAME notes that the Secretariat will seek guidance from the Arctic Council Secretariat on the agreed use and capitalization of Indigenous Peoples and Indigenous/traditional knowledge and local knowledge.*

- ✓ *PAME agrees to include the preparation of a MEMA handbook for engagement with Indigenous peoples and local communities in the 2019-2021 Work Plan. Confirmed co-leads include: Canada, United States and three Permanent Participants – AIA, ICC and Saami Council. An invitation was extended to SDWG to participate. Scoping of the handbook project to be initiated intersessionally and will be submitted to PAME II-2019 for approval.*
- ✓ *Project Co-leads note that the MEMA database will be available online (at [memadatabase.is](http://memadatabase.is)) and be open to accepting new documents, via a standard template to be developed by the project team. The project co-leads will also develop a promotional flyer for distribution and outreach.*

#### **Arctic Offshore Oil and Gas Guidelines (AOOGG):**

- ✓ *PAME takes note of the results of the survey on possible updates to the AOOGG (2009) and requests the Resource Exploration and Development expert group (REDEG) to prepare a project proposal calling for an update/status report on Arctic state activities related to offshore oil and gas for intersessional endorsement in the PAME 2019-2021 Work Plan.*
- ✓ *The aim of the update/status report is to describe current offshore oil and gas activities of the Arctic states based on states' submissions of information describing, for example, the current state of offshore oil and gas activities, relevant legislation, regulations and practices. To this end, REDEG will develop a template to facilitate states' submissions.*

#### ***Ecosystem Approach to Management (Agenda item 8)***

*PAME welcomes the 2017 – 2019 Progress Report of the Joint Ecosystem Approach Expert Group (EA-EG) and acknowledges the accomplishments documented in the report.*

*PAME welcomes the announcement of the Second International Science and Policy Conference on Implementation of the Ecosystem Approach to Management in the Arctic, to be held in Bergen, Norway, 25-27 June 2019. PAME notes that a planning group to prepare the program of the conference has been formed, including representatives of PAME, AMAP, CAFF, SDWG, Permanent Participants, ICES, PICES and WWF.*

*PAME welcomes the Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems and notes the process of their preparation, including consultations and review by members of the EA-EG as well as AMAP, CAFF, and SDWG. PAME approves the guidelines, subject to final edits and comments received by February 12.*

*PAME appreciates the progress made by the EA-EG in advancing understanding of Integrated Ecosystem Assessment, IEA, by holding the 6<sup>th</sup> EA workshop in Seattle, USA, 9-11 January 2018, and through its participation in the joint ICES/PICES/PAME Working Group on Integrated Ecosystem Assessment in the Central Arctic Ocean (WGICA).*

*PAME notes the next meeting of WGICA, which will be held in Sapporo, Japan, 8-10 May 2019, and supports PAME's ongoing participation in the joint Working Group.*

*PAME approves the EA-EG work plan items for inclusion into the PAME 2019-2021 Work Plan (Annex I).*

*PAME welcomes efforts to strengthen the communication between the EA-EG co-chairs and the relevant working groups by attending their respective working group meetings to conduct outreach, to inform about progress/status, and to seek inputs, as relevant.*

## ***Desktop Study on Marine Litter, including Microplastics, in the Arctic (Agenda item 9)***

*PAME welcomes the desktop study on marine litter in the Arctic. The five co-leads (Iceland, Norway, Sweden, AIA and OSPAR) will adjust the desktop study taking into account the comments received at PAME I-2019 for submission to SAOs by 12th of February.*

*PAME approves the proposal for a phase II of the project, which includes the development of a regional action plan on marine litter in the Arctic, to be included in the 2019-2021 work plan. PAME confirms the continuation of the five existing co-leads of the project and welcomes Canada, Finland, Kingdom of Denmark and the United States as additional co-leads.*

*The project co-leads will continue the collaboration with other Arctic Council working groups such as AMAP's work on monitoring, CAFF's work on impacts on marine litter on wildlife and ACAP's work on solid waste management. In addition, relevant experts, observers, and international organizations, will be engaged as appropriate.*

*PAME thanks UNEP for the invitation to organize a side event on marine litter in the Arctic at UNEA 4, 11-15 March 2019.*

## ***Preparations for the 2019 Ministerial Meeting (Agenda item 10)***

*The SAO Report to Ministers is divided into two parts: a Work Plan for 2019-2021 and a report on 2017-2019 Achievements. The Meeting agreed to the following process and timeline:*

### ***PAME Work Plan 2019-2021:***

*PAME welcomes the inclusion of the projects listed in Annex I for inclusion to the PAME 2019-2021 Work Plan and requests its Secretariat to revise the PAME Work Plan 2017-2019 (short version 7 Feb) based on discussions at this Meeting and submit to SAOs on **12 February** with a copy to PAME Members.*

*Outstanding comments, if any, to be submitted to the PAME Secretariat by **15 February**. The PAME Secretariat to submit these to the SAOs by **26 February**.*

### ***Report on 2017-2019 Achievements:***

*PAME request its Secretariat to revise the PAME sections on its 2017-2019 Achievements (version 7 Feb) based on discussions at this Meeting and submit to the SAOs on **12 February** with a copy to PAME Members.*

*Outstanding comments, if any, to be submitted to the PAME Secretariat by **15 February**. The PAME Secretariat to submit these to the Arctic Council by **26 February**.*

*PAME requests its Secretariat to revise the PAME Work Plan 2017-2019 (longer version with project plans annexed) based on discussions at this Meeting and send to PAME Members for their review by **26 February**. PAME Secretariat to prepare the release of the document i.e. final layout and printing by end of March.*

*PAME agreed to the following process/timeline to finalize the 2<sup>nd</sup> AMSP Implementation Report for submission to SAOs and Ministers for information.*

- *Feb 12: Revised draft version submitted to SAOs for information.*
- *March-April: Revised based on comments to include links to reports/activities (as relevant) and circulate final draft to PAME, including proposed layout.*
- *April-May: preparation for release of the document i.e. final layout and printing.*

*A list of agreed projects for the 2019-2021 PAME Work Plan is in Annex I.*

*A list of PAME deliverables to the 2019 Ministerial is in Annex II.*

### ***PAME Administration and Next Meeting***

*PAME requests its Chair/Vice-Chair to contribute to the upcoming SAO meeting (12-14 March 2019) in addition to submitting a two-page PAME progress report as requested by the Arctic Council Chairmanship.*

*PAME invites its delegations to include experts on shipping, oil and gas/resource exploration and development, ecosystem approach, MPA, marine litter and invasive species in their delegations to the PAME II-2019 meeting.*

*PAME thanks the members of its expert groups for their excellent work, both intersessionally and during this Meeting.*

*PAME Chair will inform HoDs and PPs on requests to present on PAME's work in other fora and make best efforts to share the presentations in advance to allow an opportunity for comments/input.*

*PAME notes the need to keep flexibility in its selection of its next Chair and emphasizes the importance of the serving chair to have experience in Arctic Council's work, in particular in PAME's work.*

*PAME agrees to an approach in selecting the Chair and vice-Chair through intersessional correspondence. PAME HoDs and PPs are to respond in writing by **April 1** on their decision to support a nomination of the Chair and vice-Chair, which could include the continuation of the current Chair and/or vice-Chair.*

*PAME Secretariat to send a list of previous chairmanships and hosts of PAME Working Group meetings to PAME Members.*

*PAME thanks Iceland for their offer to host PAME II-2019 in Reykjavik 9-12 September 2019.*

## ***Annex I - Projects for inclusion into PAME Work Plan (2019-2021)***

### **Framework for a Pan-Arctic Network of MPAs:**

- ✓ Modelling Arctic oceanographic connectivity to further develop PAME's MPA-network Toolbox. (*Lead: Sweden*)
- ✓ Factsheets related to MPAs and Indigenous People's Lives in a changing climate. (*Co-Leads: Finland/USA*)
- ✓ Continued expansion and refinement of the MPA-network Toolbox based on the outcomes of the 4<sup>th</sup> MPA workshop and other projects as appropriate. (*Lead: MPA EG*)
- ✓ Updating the 2017 Arctic Protected Areas Indicator Report jointly with CAFF Secretariat. (*Leads: PAME/CAFF Secretariats*)

### **Protection from Invasive Species**

- ✓ The ARIAS Implementation Coordination Group (ICG) to develop project proposals intersessionally for CAFF and PAME to consider including in their respective 2019-2021 work plans.

### **Arctic Marine Shipping:**

- ✓ Black Carbon emissions from shipping activity in the Arctic and technology developments for reduction (*Lead: Iceland, co-lead: Finland*)
- ✓ Arctic Shipping Status Reports (*Leads: USA, PAME Secretariat*)
- ✓ Environmental toxicity and fate of light and intermediate fuel oils when spilled in cold waters (*Lead: Norway (Joint project with EPPR) (To be revised/modified by Norway)*)
- ✓ Arctic Marine Tourism: Development in the Arctic and enabling real change (*Lead: Iceland, co-lead: Canada*)
- ✓ PAME-ARHC Memorandum of Understanding (*Leads: USA/Canada*)
- ✓ Underwater Noise in the Arctic – Understanding Impacts and Identifying Mitigation Strategy Options - Phase I (*Co-leads: Canada/WWF/Finland(tbc)*)
- ✓ Compendium of Shipping Accidents in the Arctic (CASA): Follow-up (*Lead: USA*) (*Joint project with EPPR*) (ongoing continued from previous work plan)
- ✓ HFO Phase IV(b) - Collect, report and/or review information about on-shore use by indigenous peoples and local communities of HFO (*Leads: USA, AIA, CCU (Joint project with SDWG)*) (ongoing, continued from previous work plan)
- ✓ Collect and summarize information on Arctic State safe and low-impact marine corridor initiatives (*Leads: Canada, Iceland and AIA*) (ongoing, continued from previous work plan)
- ✓ A framework for more systematically engaging with Observers on shipping related matters (*Co-leads: USA, Republic of Korea, Italy, Poland, Northern Forum (tbc)*) (ongoing, continued from previous work plan)
- ✓ AMSA recommendation update refresh (*Leads: USA/Canada*) (ongoing, continued from previous work plan)
- ✓ Further development of the ASTD database (*Leads: USA/Norway*) (ongoing, continued from previous work plan)
- ✓ The Arctic Shipping Best Practice Information Forum (*Leads: Iceland/USA/Canada*) (ongoing, continued from previous work plan)

**Arctic Offshore Resource Exploration and Development (REDEG):**

- ✓ MEMA handbook for engagement with Indigenous peoples and local communities (*co-leads: Canada, United States and three Permanent Participants – AIA, ICC and Saami Council.*)
- ✓ Update/status report on current offshore oil and gas activities by Arctic states (*Lead: USA*)

**Ecosystem Approach to Management (EA):**

- ✓ Convening of the 2<sup>nd</sup> International Science and Policy Conference on Implementation of the Ecosystem Approach to Management in the Arctic in Bergen, Norway 2019 (*Leads: Norway/USA in close collaboration with the EA expert group*)
- ✓ Convening of the 7<sup>th</sup> EA Workshop in 2020 with a focus on element No. 5 of the EA framework: Value the cultural, social, and economic goods and services produced by the ecosystems (*Leads: Norway/USA in close collaboration with the EA expert group*)
- ✓ Report on development in defining or setting Ecological Objectives (*Leads: Norway/USA in close collaboration with the EA expert group*).
- ✓ Integrated Ecosystem Assessment (IEA) of the Central Arctic Ocean (*ongoing cross-cutting initiative in cooperation with ICES, PICES and the EA expert group*).

**Marine Litter**

- ✓ Regional Action Plan on Marine Litter in the Arctic (*co-leads: Canada, Kingdom of Denmark, Finland, Iceland, Norway, Sweden, USA, AIA, OSPAR*)
- ✓ Communication and outreach activities:
  - i. Marine Litter workshop/conference
  - ii. Plastic in a bottle
  - iii. Project video
  - iv. Arctic marine litter competition
  - v. Marine Litter graphics site on the PAME website for outreach purposes

## ***Annex II - List of deliverables to the 2019 Ministerial***

### PAMEs activities for SAO and Ministerial approval/welcome (6 activities):

- ✓ Underwater Noise in the Arctic: A State of knowledge report (*Canada/WWF*)
- ✓ Desktop study on Marine Litter, including microplastics in the Arctic (Phase I) (*Iceland/Norway/Sweden/AIA/OSPAR*)
- ✓ Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems (*Norway/USA/EA-EG*) (*for approval by SAOs and Ministers*)
- ✓ Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities (MEMA) Part II Findings for Policy Makers (full report) (*Canada/USA*) (*for approval by SAOs and Ministers*)
- ✓ 2<sup>nd</sup> reporting on progress/implementation of the 2015-2025 Arctic Marine Strategic Plan (AMSP).
- ✓ PAME 2019-2021 Work Plan.

### Following documents are for information and should be referred to as such within the PAME section of the SAO Report to Ministers (7 activities):

- ✓ Arctic Shipping Best Practice Information Forum Status Report, Web-portal and Press Release (*Finland/Canada/USA/PAME Secretariat*)
- ✓ Report on the environmental, economic, technical and practical aspects of the use by ships in the Arctic of alternative fuels (*Norway/WWF*)
- ✓ Arctic Ship Traffic Data Project Status Report, Database and Press Release (*USA*)
- ✓ Regional Reception Facilities project titled: Proposal for a new output to amend MARPOL to allow the establishment of regional arrangements in the Arctic for joint submission by all Arctic States to the 74<sup>th</sup> Session of IMO's Marine Environment Protection Committee (MEPC) (13-17 May 2019)
- ✓ MEMA database (*Canada/USA/PAME Secretariat*)
- ✓ Progress report on the EA-EG 2017-2019 work plan (*Norway/USA*)
- ✓ Integrated Ecosystem Assessment Report for the Central Arctic Ocean, pending its completion (*Norway/USA*)
- ✓ Various communication and outreach products