



# PAME I-2019

*FEBRUARY 4-7  
MALMÖ - SWEDEN*

## WORKING GROUP MEETING REPORT

**PAME**

Protection of the Arctic Marine Environment



## PAME I-2019 MEETING REPORT

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# PAME I-2019 Meeting Summary

PAME's 1<sup>st</sup> biannual meeting of 2019 (PAME I-2019) was held at the Hotel Scandic Triangeln in Malmö, Sweden from 5-7 February following pre-meetings of PAME's five thematic expert groups on 4 February (shipping, marine protected areas, ecosystem approach, marine litter and resource exploration and development).

## Marine Protected Areas (MPAs):

Canada updated delegations on the 4<sup>th</sup> 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 (revised dates) in Cambridge Bay, Nunavut.

PAME approved two project proposals for inclusion in the 2019-2021 Work Plan: Sweden's "Modelling Arctic oceanographic connectivity to further develop PAME's MPA-network Toolbox" project, on which CAFF has expressed interest to collaborate, and Finland's project proposal on Factsheets related to MPAs and Indigenous People's Lives in a changing climate, on which PAME welcomes cooperation and input from other interested Arctic Council working groups (WGs).

PAME will pursue other projects as appropriate, such as the continued expansion and refinement of the MPA-network Toolbox, based on the outcomes of the 4th MPA workshop, and an update on the 2017 Arctic Protected Areas Indicator Report from the PAME and CAFF Secretariats.

## Invasive Species:

Canada, as co-chair of the PAME-CAFF Joint ARIAS Implementation Coordination Group (ICG), provided an update on the status of the ICG and conveyed that CAFF will take the lead in a new governance process to coordinate moving forward on the ARIAS action plan items. The ICG may develop project proposals intersessionally for CAFF and PAME to consider including in their respective 2019-2021 work plans. The PAME Secretariat will continue liaising with the CAFF Secretariat on the developments of the ICG.

## Arctic Marine Shipping:

PAME and its Shipping Expert Group continue to advance a number of projects and initiatives to promote safe and sustainable navigation in the Arctic. One key project is to update the 17 Ministerial-approved Recommendations contained in the 2009 Arctic Marine Shipping Assessment (AMSA) Report, as well as the recommendations in the Arctic Ocean Review Final Report (AOR 2013) and the Arctic Marine Strategic Plan (AMSP), in consultation with all other Arctic Council WGs and task forces, as relevant.

The 3<sup>rd</sup> annual Arctic Shipping Best Practice Information Forum meeting will take place 3-4 June 2019 in London, UK. Iceland will take over as Chair of the Forum corresponding to Iceland's Arctic Council Chairmanship from 2019-2021. PAME's Forum Coordinating Committee will organize the meeting and 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). A workshop for more systematically engaging Observers in PAME's shipping related work will also be organized on 4 June.

USA has developed a draft non-binding Memorandum of Understanding (MOU) with the Arctic Regional Hydrographic Commission, which had previously expressed its desire to develop such an MOU.

Norway presented the final report on the Environmental, Economic, Technical and Practical Aspects of the Use by Ships in the Arctic of Alternative Fuels.

Norway has created a template and invited each Arctic State and each Observer State to submit information on how it understands and applies in practice IMO's Polar Code.

PAME encouraged 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 to contribute to its timely entry into force.

All Arctic States co-sponsored the draft paper on 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.

PAME officially launched its ASTD Database on 7 February. PAME invited the use of the database in accordance with the ASTD Cooperative Agreement.

Fourteen initiatives have been suggested for inclusion in the PAME 2019-2021 Work Plan, see below.

### Arctic Offshore Resource Exploration and Development:

The Resource Exploration and Development Expert Group (REDEG) reported on progress and next steps on Part II of the Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities (MEMA) Project. As a follow-up to this project, PAME agreed to include the preparation of a MEMA handbook for engagement with Indigenous peoples and local communities in the 2019-2021 Work Plan. Furthermore, the MEMA Information Database, a compilation of over 750 documents, is available online ([www.memadatabase.is](http://www.memadatabase.is)).

PAME also agreed to a new project in its forthcoming Work Plan to prepare an update/status report on current offshore oil and gas activities by Arctic states.

### Ecosystem Approach to Management (EA):

PAME approved the Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems (Norway/USA/EA-EG) which will be up for approval by SAOs and Ministers in spring 2019.

The Second International Science and Policy Conference on Implementation of the Ecosystem Approach to Management in the Arctic will be held in Bergen, Norway, 25-27 June 2019. The Conference planning group includes representatives of PAME, AMAP, CAFF, SDWG, Permanent Participants, PICES, ICES and WWF.

PAME supported ongoing participation in the joint ICES/PICES/PAME Working Group on Integrated Ecosystem Assessment in the Central Arctic Ocean (WGICA), which will be included in the PAME 2019-2021 Work Plan, as well as the 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 ecosystem, and a report on development in defining or setting Ecological Objectives.

### Desktop Study on Marine Litter, including Microplastics, in the Arctic:

PAME welcomed the desktop study on marine litter, including Microplastics, in the Arctic and approved Phase II of the project, a regional action plan on marine litter in the Arctic for inclusion into the PAME 2019-2021 Work Plan. Confirmed co-leads for Phase II are: Iceland, Norway, Sweden, Canada, Finland, Kingdom of Denmark the United States, AIA and OSPAR. The project co-leads will ensure close collaboration with other Arctic Council WGs that are working on marine litter.

### Collaboration and coordination with other working groups:

PAME works towards strengthening the coordination and collaboration with other WGs by inviting them to nominate experts in PAME’s expert groups working on activities of mutual relevance. Furthermore, PAME makes an effort to participate in meetings of other WGs e.g., through its HoDs for coordination purposes, and shares work in progress to seek inputs, as relevant.

PAME liaises with CAFF on its MPA and invasive species work. PAME continues to coordinate its work with EPPR, noting in particular the project on “Compendium of Arctic Ship Accidents (CASA)”. A joint PAME-EPPR project proposal by Norway for the 2019-2021 work plan will be worked on intersessionally, and SDWG co-leads with PAME on a project to collect, report and/or review information about on-shore use by indigenous peoples and local communities of HFO. Input from all WGs will be sought for the Regional Action Plan on Marine Litter and access to the ASTD Database is open for the WGs as well.

### Observers at the PAME I-2019 Working Group Meeting:

PAME continues its engagement with Observer States in PAME's shipping-related activities by inviting one representative for each meeting to give a presentation on its Arctic interest and activities. China gave such a presentation at PAME I-2019. PAME I-2019 was attended by 75 participants, of which 22 were Observers. Nine were from Observing States, representing the Republic of China, Italy, Japan, United Kingdom, Germany, Poland, the Netherlands, the Republic of Korea, and for the first time a representative from India participated in a PAME Working Group meeting. Thirteen came from Observing Organizations, representing; CCU, EEA, WWF, Northern Forum, UNEP, the Nordic Council of Ministers, the OSPAR Commission, Oceana and the Arctic Institute of North America.

### PAME Administration for Next Meeting:

Iceland has offered to host the next PAME meeting (PAME II-2019) in Reykjavik from 9-12 September 2019.

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

### Marine Protected Areas: (4 activities):

- ✓ 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)

### 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 (14 activities):

- ✓ 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)
- ✓ An overview of Arctic States and Observer States interpretation of the Polar Code. (Lead: Norway)

### Arctic Offshore Resource Exploration and Development (3 activities):

- ✓ 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)
- ✓ Follow-up on the Framework Plan on Oil Pollution Prevention (FP-OPP) (jointly with EPPR; PAME leads: REDEG and SEG)

### Ecosystem Approach to Management (EA) (4 activities):

- ✓ 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).

### Arctic Marine Pollution: Marine Litter (2 activities)

- ✓ 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

### Strategic Framework Documents

AMSP Implementation Status Report 2019-2021 (Leads: PAME HoD's, PAME Secretariat, in collaboration with the other Arctic Council WGs)



## 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



PAME I-2019 February 4-7, Malmö, Sweden (Final list: 77 registrations)					
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## PAME I-2019 February 4-7, Malmö, Sweden (Final list: 77 registrations)

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<b>Others - Invited Experts</b>					
77	Michael	Kingston	Special advisor	UK / Ireland	<a href="mailto:michaelkingston@michaelkingston.org">michaelkingston@michaelkingston.org</a>



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**PAME I-2019 Working Group Meeting**  
**Hotel Scandic Triangeln**  
**Malmö, Sweden**  
**4-7 February 2019**  
**Agenda with Timeline (Final version)**

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**PAME I-2019 Main Agenda Items**  
**5-7 February 2019**

- Item 1:** Opening of the Meeting
- Item 2:** Introduction and Adoption of the Agenda
- Item 3:** Information from the Chair and the Secretariat
- Item 4:** Pan-Arctic Network of Marine Protected Areas (MPAs)
- Item 5:** Protection from Invasive Species
- Item 6:** Arctic Marine Shipping activities (various leads)
- Item 7:** Arctic Offshore Resource Exploration and Development
- Item 8:** Ecosystem-based Approach to Management
- Item 9:** Arctic Marine Pollution: Marine Litter, including Microplastics
- Item 10:** Preparations for the 2019 Ministerial Meeting:
- 11.1 2019-2021 PAME Work Plan
  - 11.2 2019 Ministerial submissions – SAO Report to Ministers
  - 11.3 Arctic Marine Strategic Plan (AMSP) Implementation Progress Report 2017-2019
- Item 11:** Summary of Meeting Decisions and Follow up Actions (Chair & Secretariat)
- Item 12:** Any other business and closing of the Meeting

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**PAME I-2019: Pre-Meetings**

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**MONDAY, February 4**

The pre-meetings will take place at the facilities of at the facilities of Hotel Scandic Triangeln.  
Following is a list of the times of the pre-meetings:

<b>Breakout room: Ballroom 3<sup>rd</sup> floor</b>	<b>Breakout room: Learning 3<sup>rd</sup> floor</b>
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(ca. 30-35 persons)	(ca. 20-25 persons)
<p><b><u>10:00-17:00 (whole day)</u></b></p> <p><b><i>Shipping Experts Group (SEG)</i></b></p> <p>The agenda to be provided</p>	<p><b><u>09:00-11:00</u></b></p> <p><b><i>Resource Exploration and Development Expert Group (REDEG)</i></b></p> <p>The agenda will be the items under Agenda Item 7.</p>
	<p><b><u>11:00-13:00</u></b></p> <p><b><i>Ecosystem Approach Expert Group</i></b></p> <p>The agenda will be the items under Agenda Item 8.</p>
	<p><b><u>13:00-15:00</u></b></p> <p><b><i>MPA Expert Group</i></b></p> <p>The agenda will be the items under Agenda Item 4.</p>
	<p><b><u>15:00-17:00</u></b></p> <p><b><i>Marine Litter Expert Group</i></b></p> <p>The agenda will be the items under Agenda Item 9.</p>



# PAME I-2019 Working Group Meeting 5-7 Feb

## Hotel Scandic Triangeln (Ballroom 3<sup>rd</sup> floor)

### Malmö, Sweden

#### Documentation

All PAME I-2019 meeting documents will be posted on the PAME password protected area of the homepage: <http://www.pame.is> and login information will be provided to confirmed participants.

*Participants are urged to bring their own copies of the PAME-related documents for this meeting in an effort to minimize printing during the meeting!*

*Coffee breaks: 10:00-10:15 and 15:00-15:15 - Lunch breaks: 12:00-13:00*

TUESDAY, February 5		
Timeline	Agenda items	Note/Leads
08:30-09:00	Registration of PAME meeting participants	
09:00-10:30	<p><b>Item 1: Opening of the Meeting</b></p> <ul style="list-style-type: none"> <li>Björn Lyrvall, Senior Arctic Official of Sweden</li> <li>Jessica Nilsson, Head of Delegation, Sweden</li> </ul> <p><b>Item 2: Introduction and Adoption of the Agenda</b></p> <p><b>Item 3: Information and various updates</b></p> <p>3.1 Outcomes from SAO meeting (Nov 2018)</p> <p>3.2 Contributions to the Arctic Council's Environment Ministerial meeting (11-12 Oct 2018)</p> <p>3.3 Outcomes from other Arctic Council and international meetings of relevance.</p> <p>3.4 Presentation by the People's Republic of China as an Arctic Council Observer State on contributions and interests of relevance to PAME work.</p> <p>3.5 Presentation by the World Maritime University</p> <p>3.6 Update on Iceland's 2019-2021 Chairmanship program and priorities of relevance to PAMEs work</p>	<p>PAME Sec and Finland Vice-Chair</p> <p>Various</p> <p>Prof. LU,Zhibo</p> <p>Dr. Lawrence P. Hildebrand</p> <p>Iceland</p>
10:30-11:00	<p><b>Item 4: Pan-Arctic Network of Marine Protected Areas (MPAs)</b></p> <p>4.1 Update on plans for 4<sup>th</sup> MPA Workshop (Canada in 2019).</p> <p>4.2 Summary of revised project plan on Modelling Arctic oceanographic connectivity to further develop PAME's MPA toolbox.</p> <p>4.3 Summary of revised draft proposal to develop factsheet on Arctic Marine Climate Change Impact and MPAs.</p> <p>4.4 Summary of follow-up activities based on:</p>	<p>Canada</p> <p>Sweden</p> <p>Finland</p> <p>USA</p>

	<ul style="list-style-type: none"> <li>a) the MPA Toolbox and MPA workshops;</li> <li>b) Joint PAME and CAFF collaboration with UNEP-WCMC on Arctic PA Indicator Report</li> <li>c) MPA EG action table as a reference in developing project proposals for the 2019-2021 work cycle.</li> </ul> <p>4.5 Discussions, confirmation of leads and an agreement on MPA-related activities in the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>).</p>	<p>PAME Sec USA</p> <p>All</p>
<b>11:00-11:30</b>	<p><b>Item 5: Protection from Invasive Species</b></p> <p>5.1 Outcome from the meeting of the Arctic Invasive Alien Species Strategy and Action Plan (ARIAS) Strategy and Action Plan Joint CAFF/PAME coordination group.</p> <ul style="list-style-type: none"> <li>a) Confirmation of a PAME co-chair for the ARIAS Joint Coordination Group (USA is the CAFF co-chair)</li> <li>b) Proposed implementation actions/projects by the ARIAS Joint Coordination Group for inclusion into PAMEs and CAFFs 2019-2021 work plans.</li> </ul> <p>5.2 Discussions, confirmation of leads and agreement on ARIAS activities in the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p>	<p>Canada/USA</p> <p>All</p>
<b>11:30-17:00</b>	<p><b>Item 6: Arctic Marine Shipping Assessment activities–status and updates (various leads)</b></p> <p><i>Refer to the PAME Shipping Expert Group pre-meeting agenda (to be provided)</i></p>	
<b>11:30-12:00</b>	<b>Summary from the Shipping Experts Group pre-meeting</b>	SEG Co-chairs
<b>13:00-15:00</b>	<b><i>Theme I: Enhanced Arctic Maritime Safety</i></b>	
	<p>6.1 <u>Linking with International Organizations (I(A))</u></p> <ul style="list-style-type: none"> <li>a) Arctic Shipping Best Practice Information Forum <ul style="list-style-type: none"> <li>i. Preparations for the 3<sup>rd</sup> meeting of the Forum</li> <li>ii. Discussions and next steps.</li> </ul> </li> <li>b) MoU with the Arctic Regional Hydrographic Commission (ARHC): Next steps and inclusion into PAME 2019-2021 Work Plan.</li> <li>c) WMO paper on the Voluntary Observing Ship (VOS) scheme: Next steps on WMO collaboration and inclusion into PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</li> </ul>	Can/ Fin/USA
	<p>6.2 <u>IMO Measures for Arctic Shipping (I(B))</u></p> <ul style="list-style-type: none"> <li>a) Activities with the aim to continue to advance the work by PAME on mitigating risks associated with the use and carriage of Heavy Fuel Oil (HFO) by vessels in the Arctic <ul style="list-style-type: none"> <li>i. HFO Phase IV(b) – Update on information compiled on-shore use by Indigenous and Local Community Reliance Upon Heavy Fuel Oil (HFO) project.</li> <li>ii. HFO Phase IV(d) – Summary of final report: Explore the environmental, economic, technical and practical</li> </ul> </li> </ul>	<p>SEG/All</p> <p>USA/AIA/CCU</p>

	<p>aspects of the use by ships in the Arctic of alternative fuels.</p> <p>b) Harmonized implementation of the Polar Code: Summary on template prepared by Norway to facilitate a harmonised implementation of the Polar Code and next steps.</p>	<p>Mr. Kjetil Martinsen</p> <p>Norway</p>
	<p>6.3 <u>Uniformity of Arctic Shipping Governance (I(C))</u></p> <p>a) Summary of a revised draft on the Safe and Low Impact Shipping Corridors project</p> <p>b) Discussions and approval for 2019 Ministerial</p>	<p>Canada/Iceland/AIA</p>
<b>15:15-15:45</b>	<b><i>Theme II: Protecting Arctic People and the Environment</i></b>	
	<p><del>6.4 <u>Specially Designated Arctic Marine Areas (II(D))</u></del></p> <p><del>a) Update on the joint submission on the Regional Reception Facilities Plan (RRFP) to the MEPC 74</del></p>	<p><del>Russia/USA</del></p>
	<p>6.5 <u>Addressing Impacts on Marine Mammals (II(G))</u></p> <p>a) Summary of the State of the Knowledge report on underwater noise.</p> <p>b) Draft project proposal on Underwater Noise in the Arctic – Understanding Impacts and Defining Management Solutions</p> <p>c) Discussions and approval for submission to 2019 Ministerial and inclusion of follow-up activities to the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p>	<p>Canada/WWF/OSPAR</p> <p>Canada/WWF</p>
<b>15:45-17:00</b>	<b><i>Theme III: Building the Arctic Marine Infrastructure</i></b>	
	<p>6.6 <u>Addressing the Infrastructure Deficit (III(A))</u></p> <p>Brief status update on the MEPC 74 submission on the concept of regional reception facilities.</p>	<p>Russia/USA</p>
	<p>6.7 <u>Arctic Marine Traffic Systems (III(B))</u></p> <p>a) Arctic Ship Traffic Data project: Official launch and next steps</p> <p>b) Update on the joint PAME/EPPR Compendium of Arctic Ship Accidents (CASA) project.</p> <p>i. Discussions and approval for submission to 2019 Ministerial and inclusion of follow-up activities to the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p>	<p>USA/Norway</p> <p>USA</p>
	<p>6.8 <u>Engagement of Observer States PAME's shipping-related activities</u></p> <p>a) Update on planned workshop in 2019 with the aim to discuss options for more systematically engaging Observers in PAME's shipping related work.</p>	<p>USA</p> <p>Italy</p> <p>Korea</p> <p>Poland</p>

	b) Discussions and approval for submission to 2019 Ministerial and inclusion of follow-up activities to the PAME 2019-2021 Work Plan. ( <i>Agenda item 10</i> )	
	<p>6.9 <u>Shipping-related work and preparations for the 2019 Ministerial</u></p> <p>a) Status on the updated AMSA update/refresh project matrix (updating the recommendations contained in the 2009 AMSA Report) for inclusion to the PAME 2019-2021 Work Plan.</p> <p>b) Summary, confirmation of leads and an agreement on shipping related project proposals for inclusion in PAME's 2019-2021 Work Plan. (<i>Agenda item 10</i>).</p> <p>Projects/activities as addressed in under the shipping agenda items above in addition to new project proposals:</p> <p>i. Revised draft project proposal submitted by Iceland on: <i>Black carbon mitigation measures from shipping in the Arctic: Fuel and Exhaust Gas Treatment for Marine Diesel Engines – Summary Report</i></p> <p>ii. Revised draft project plan to develop an <i>Arctic Shipping Status Report (ASSR)</i>.</p> <p>iii. Draft project proposal submitted by Iceland on <i>Arctic Marine Tourism: Shipping analysis and Best Practices Guidelines</i>.</p> <p>iv. Placeholder for a joint PAMEEPPR project by Norway on <i>Fuel spills in Arctic waters: Environmental Toxicity of light and intermediate fuel oils when spilt on a cold water surface</i>.</p> <p>v. Draft project proposal Submitted by Canada and WWF on <i>Underwater Noise in the Arctic – Understanding Impacts and Defining Management Solutions (Agenda 6.3(b))</i>.</p> <p>vi. Other shipping repeated project proposal submitted by PAME members.</p>	<p>USA/Canada</p> <p>SEG/all</p> <p>Various</p>
<b>From 17:30</b>	<p><b>Repection at the World Maritime University</b></p> <p><i>Details to be provided</i></p>	



<b>WEDNESDAY, February 6</b>		
<b>Timeline</b>	<b>Agenda items</b>	<b>Note/Leads</b>
<b>09:00-10:00</b>	<p><b>Item 7: Arctic Offshore Resource Exploration and Development</b></p> <p>7.1 Summary on the final draft Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities Project (MEMA) Part II.</p> <p>a) Discussions and approval for submission to 2019 Ministerial and inclusion of follow-up activities to the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p> <p>7.2 Resource and Exploration and Development Expert Group (REDEG): Summary from the survey on selected updates of the Arctic Offshore Oil and Gas Guidelines (2009).</p> <p>a) <u>Concept Paper 1</u>: Information Handbook or Reference Guide on Engagement of Indigenous Peoples in Marine Activities.</p> <p>b) <u>Concept Paper 2</u>: Guidance on Engagement of Indigenous Peoples in Offshore Oil and Gas Activities.</p> <p>c) <u>Concept Paper 3</u>: Guidance on Non-Emergency Operations, Monitoring, and Decommissioning</p> <p>d) Discussions, confirmation of leads and an agreement on inclusion of follow-up activities to the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p>	<p>USA/Canada</p> <p>USA/Canada</p>
<b>10:00-11:00</b>	<p><b>Item 8: Ecosystem-based Approach to Management</b></p> <p>8.1 Summary status of the EA-EG work plan items 2017-2019</p> <p>8.2 Update on the planning of the 2<sup>nd</sup> EA Conference</p> <p>8.3 Summary of the final draft EA Guidelines</p> <p>8.4 Agree to the next steps on the PAME/ICES Working Group on Integrated Ecosystem Assessment in the Central Arctic Ocean (WGICA) including revised ToR.</p> <p>8.5 Discussions, approval of submission to 2019 Ministerial and inclusion of follow-up activities to the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>).</p>	<p>USA/Norway</p> <p>USA/Norway</p> <p>USA/Norway</p> <p>USA/Norway</p> <p>All</p>
<b>11:00-12:00</b>	<p><b>Item 9: Arctic Marine Pollution: Marine Litter, including Microplastics</b></p> <p>9.1 Summary of final draft of the Desktop Study on Marine Litter including Microplastics in the Arctic.</p> <p>9.2 Summary of project plan submitted by the co-leads on the development of the <i>first version of a Regional Action Plan on Marine Litter in the Arctic (Phased Approach)</i> including proposed communication and outreach material</p> <p>9.3 Discussions, confirmation of leads, approval of submission to 2019 Ministerial and inclusion of follow-up activities in the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>).</p>	<p>Project leads and PAME Secretariat</p>

13:30-14:00	<b>Item 10: Preparations for the 2019 Ministerial Meeting and AMSP Implementation:</b>  10.1 Review and agree to the PAME section in the SAO Report to Ministers.  10.2 Review and agree to the PAME 2019-2021 Work Plan items: a) for the SAO Report to Ministers (short version). b) The longer stand-alone version of the PAME 2019-2021 Work Plan including its annexes with details on new project plans.  10.3 New project proposals for inclusion into the PAME 2019-2021 work plan.  10.4 Review and agree to finalizing the 2 <sup>nd</sup> AMSP implementation report (2017-2019).	PAME Chair All
14:00-17:15	<b>PAME Breakout sessions:</b> The aim is to finalize relevant documents and revisions to proposed 2019-2021 Work Plan items/projects and activities (including confirmations on leads/co-leads), and prepare draft RoDs for further discussion and agreement under Agenda Item 11.  <b>Shipping expert group 14:00-17:00    MPA expert group 14:00-15:00</b> <b>REDEG group 15:15-17:00                EA expert group 15:15-16:15</b> <b>Marine litter expert group 16:15-17:15</b>	
	<b>Dinner</b> <i>Details to be provided</i>	
<i>Respective leads to provide draft RoDs to the PAME Secretary by end of the day/midnight</i>		
<b>THURSDAY, February 7</b>		
<i>Timeline</i>	<i>Agenda items</i>	<i>Note/Leads</i>
09:00-11:00	Outstanding issues from previous days and overview of way forward/next steps (as per outcomes from the breakout sessions).	Various
11:00-17:00	Item 11: Summary of Meeting Decisions and Follow up Actions (Chair & Secretariat)	Chair
	Item 12: Next PAME Meeting, any other business and closing of the Meeting	Chair/All
<b>End of PAME I-2019 Meeting at 17:00</b>		



Protection of the Arctic Marine Environment

## PAME I-2019: List of Documents

### Hotel Scandic Triangeln Malmö, Sweden 4-7 February 2019

#### ACCESS TO MEETING DOCUMENTS:

Access to all relevant documents and background information is on the PAME password protected area at: [www.pame.is](http://www.pame.is) and login information is provided to confirmed participants.

**Participants are urged to bring their own copies of PAME-related documents for this meeting in an effort to minimize printing during the meeting!**

#### Pre-meetings Monday the 4<sup>th</sup> of February

Following is a list of the times of the pre-meetings (details on the agendas to be provided).

Breakout room: Ballroom 3 <sup>rd</sup> floor (ca. 30-35 persons)	Breakout room: Learning 3 <sup>rd</sup> floor (ca. 20-25 persons)
<b><u>10:00/10:00-17:00 (whole day)</u></b> <b><i>Shipping Experts Group (SEG)</i></b> Agenda below	<b><u>09:00-11:00</u></b> <b><i>Resource Exploration and Development Expert Group (REDEG)</i></b> The agenda will be the items under Agenda Item 7.
	<b><u>11:00-13:00</u></b> <b><i>Ecosystem Approach Expert Group</i></b> The agenda will be the items under Agenda Item 8.
	<b><u>13:00-15:00</u></b> <b><i>MPA Expert Group</i></b> The agenda will be the items under Agenda Item 4.
	<b><u>15:00-17:00</u></b> <b><i>Marine Litter Expert Group</i></b> The agenda will be the items under Agenda Item 9.

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## Agenda items for the pre-meeting sessions as relevant

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### Pre-meeting registration link.

Pre-meeting registrations (1 Feb)

Pre-meeting agenda for the shipping expert group (SEG)

- ✓ SEG pre-meeting agenda 7: refer to Agenda 6.2(b): SARex3 implementation of the Polar Code by Norway
- ✓ SEG pre-meeting agenda 9: One-pager risk mitigation in Arctic shipping
- ✓ SEG pre-meeting agenda 12: Overview of Low-Impact Shipping Corridors and other Shipping Management Schemes, draft version 30 Jan.

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## AGENDA 2 – Introduction and Adoption of the Agenda

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Draft agenda with timeline (version 30 Jan 2019)

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## AGENDA 3 – Information from the Chair and Secretariat

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### Background documents:

PAME II-2018 Meeting Report

PAME II-2018 RoDs

SAO Report, Nov 2018

PAME 2017-2019 Work Plan

SAO Report to Ministers (May 2017)

2017 Fairbanks Ministerial Declaration

Finland Chairmanship Program 2017-2019

Common Operating Guidelines for Working Groups

Arctic Council Observer Manual

Arctic Council Rules of Procedures

Arctic Council Guidelines for Relationships with Outside Bodies

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## AGENDA 4 – Pan-Arctic Network of Marine Protected Areas (MPAs)

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Agenda 4.1: 4<sup>th</sup> MPA Workshop 19-21 March 2019-Annotated Agenda, Draft Rev31Jan2019

Agenda 4.2: Revised project proposal on modelling Arctic oceanographic connectivity-7 Jan

Agenda 4.3: Revised draft project plan to develop factsheet series-7 Jan

Agenda 4.4(b): Joint PAME-CAFF collaboration with UNEP-WCMC on Arctic PA-7 Jan

### Background Documents:

MPA Networks Action Table by USA (version 28 Aug)



PAME MPA-network toolbox: Area-based conservation measures and ecological connectivity.

CAFF/PAME Indicator Report on Arctic Protected Areas.

Framework for a Pan-Arctic Network of Marine Protected Areas (April 2015)

1<sup>st</sup> MPA Workshop Report

2<sup>nd</sup> MPA workshop Report

3<sup>rd</sup> MPA Workshop Report

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## **AGENDA 5 – Protection from Invasive Species**

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Agenda 5: Summary and next steps on ARIAS ICG-16 Jan 2019

Background documents:

- ✓ CAFF/PAME Arctic Invasive Alien Species Strategy and Action Plan (ARIAS).
- ✓ Invasive Species on PAME.is

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## **AGENDA 6 - Arctic Marine Shipping Assessment follow-up activities**

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Agenda 6.1(a): Shipping Forum status and next steps-17 Jan 2019

Agenda 6.1(b): Draft ARHC MOU

Background document:

Proposal to Develop a Memorandum of Understanding with the Arctic Regional Hydrographic Commission (*SAOs approved in Nov 2018*).

Agenda 6.1(c) (also SEG pre-meeting agenda 8): Participation in VOS Scheme-final

Background documents (also SEG pre-meeting agenda 8):

- ✓ VOS msc 1293
- ✓ VOS-Brochure

Agenda 6.2(b) (also SEG pre-meeting agenda 7): SARex3 implementation of the Polar Code by Norway

(Agenda 6.2):

Background documents related to HFO and Black Carbon to be discussed in PPR6 meeting

- ✓ PPR 6-12-3 - Combined methodology to analyse impacts of a ban on heavy fuel oil use and carriage as fuel ...
- ✓ PPR 6-7-2 - Effective control measures of Black Carbon emissions from marine diesel engines based ....
- ✓ PPR 6-INF.15 - Control measures of Black Carbon emissions from marine diesel engines - focus on ....
- ✓ PPR 6-INF.11 - Appropriate Black Carbon control measures for international shipping summary of an internat...

Agenda 6.3(a): Low Impact Corridors One pager (Jan 2019)

*Background document:* White Paper-Low Impact Shipping Corridors

Agenda 6.5(a): Arctic Underwater Noise State of Knowledge Report-Draft, version 10 Dec 2018 (sent out for comments on 10 Dec. 2018).

Agenda 6.5(b): Underwater Noise in the Arctic - 2019-2021 Project Proposal.

Agenda 6.9(a):

- AMSA Project Refresh (sent out for comments 12 Nov)
- AMSA Recommendations Update Matrix (sent out for comments 12 Nov)

Agenda 6.9(b):

- i) Revised project plan on BCM mitigation measures for shipping in Arctic-7 Jan 2019
  - a. Summary of comments received on project plan on BCM mitigation measures for shipping in Arctic (26 Nov version)
- ii) Revised project plan to develop Arctic Shipping Status Report (ASSR) with comments-version 7 Jan 2019
- iii) Revised project plan on Arctic Marine Tourism
  - ✓ CLEAN-7 Jan 2019
  - ✓ TRACK CHANGES-7 Jan 2019
- iv) Placeholder for a joint PAME/EPPR project on Fuel spills in Arctic waters by Norway

Background documents: (Agenda 6):

- ✓ AMSA Final Report (2009)
- ✓ 4<sup>th</sup> AMSA Implementation Progress Report for the period 2015-2017
- ✓ Arctic Ocean Review (AOR) Final Report (2013)

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## **AGENDA 7 – Arctic Offshore Resource Exploration and Development**

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Agenda 7.1:

- ✓ MEMA Report Part 2 - Draft December 21 CLEAN
- ✓ MEMA Report Part 2 - Draft December 21 TRACK CHANGES
- ✓ MEMA Part 2-Summary for Policy Makers-Draft December 21

Agenda 7.2(a): Concept Paper 1- Information Handbook or Reference Guide on Engagement of Indigenous Peoples in Marine Activities.

Agenda 7.2(b): Concept Paper 2- Guidance on Engagement of Indigenous Peoples in Offshore Oil and Gas Activities.

Agenda 7.2(c): Concept Paper 3- Guidance on Non-Emergency Operations, Monitoring, and Decommissioning.

Annotation to agenda 7.2 (a)-(c)

Background documents:

- ✓ Meaningful Engagement of Indigenous Peoples and Communities in Marine Activities (MEMA) Part I Report.
  - ✓ MEMA Workshop Report.
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## **AGENDA ITEM 8 – Ecosystem-based Approach to Management**

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### Agenda 8.1: EA Progress Report 2017-2019

#### Agenda 8.2:

- ✓ 2nd EA Conference Announcement
- ✓ Link to the conference site: [here](#)

#### Agenda 8.3:

- ✓ Final draft EA Guidelines Version 12 Jan 2019-CLEAN
- ✓ Final draft EA Guidelines Version 12 Jan 2019-TRACK CHANGES
- ✓ Annotation to agenda 8.3

#### Agenda 8.4:

- ✓ WGICA status report-next steps-ToR in Annex 2
- ✓ Annotation to agenda 8.4

#### Background documents:

- ✓ 6<sup>th</sup> EA Workshop [here](#)
  - ✓ Status of Implementation of the Ecosystem Approach to Management in the Arctic.
  - ✓ The 2015 – 2017 Progress Report of the Joint Ecosystem Approach Expert Group (EA-EG).
  - ✓ The Summary Report of the International Science and Policy Conference on the Status of Implementation of the Ecosystem Approach in the Arctic.
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## **AGENDA ITEM 9 – Marine Litter, including Microplastics**

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### Agenda 9.1:

- ✓ Marine Litter Desktop Study-Final draft-CLEAN-7 jan 2019
- ✓ Marine Litter Desktop Study-Final draft-TRACK CHANGES-7 jan 2019
- ✓ ML Desktop Study Section III Tables final draft (Annex II)

#### Agenda 9.2:

- ✓ Project plan to develop a ML regional action plan-final draft 7 Jan-CLEAN
- ✓ Project plan to develop a ML regional action plan-final draft 7 Jan-TRACK CHANGES

#### Background documents

- ✓ Arctic Marine Litter Literature Submission Template Form
- ✓ Marine Litter project plan 2017-2019
- ✓ Arctic Marine Litter Workshop Summary Report

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## **AGENDA ITEM 10 - Preparations for the 2019 Ministerial Meeting and AMSP Implementation**

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Agenda 10.1: PAME Achievements report 2017-2019 draft 15 Nov 2018

Agenda 10.2(a): PAME work plan 2019-2021 for inclusion into the SAO Report to Ministers,

Agenda 10.2(b): PAME Work Plan 2019-2021 - longer standalone version

Annotation to agenda 10.2(a) & (b)

Agenda 10.4:

- AMSP implementation matrix 29 Jan
- Annotation to agenda 10.4

Background documents:

AMSP Implementation Progress Report 2015-2017

AMSP 2015-2025

AMSP Implementation Plan

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### **Additional Information**

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PAME I-2019 logistics and hotel information

List of nominated experts (version Dec 2018)

List of Participants





## **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 Impementation 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



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