



PAME II-2018

**OCTOBER 1-4
VLADIVOSTOK - RUSSIA**

WORKING GROUP MEETING REPORT

PAME

Protection of the Arctic Marine Environment

PAME II-2018 MEETING REPORT

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Frontpage image: Russky Bridge, Vladivostok, October 1st 2018. Photo by the PAME Secretariat.



PAME II-2018 meeting participants. Photo courtesy of the Admiral Nevelskoy Maritime State University.

PAME II-2018 Meeting Summary

PAME's 2nd biannual meeting of 2018 (PAME II-2018) was held at the facilities of the Admiral Nevelskoy Maritime State University in Vladivostok, Russia from 1-4 October following pre-meetings of PAME's five thematic expert groups on 30 September (shipping, marine protected areas, ecosystem approach, marine litter and resource exploration and development).

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

Canada updated delegations on 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 27-29 November 2018 in Cambridge Bay, Nunavut. As of 6 November this workshop has been postponed to January 2019. Further details will be provided.

Finland presented a revised draft proposal for a Factsheet series on Arctic climate change impacts. The draft is to be revised based on discussions and comments received at PAME II-2018 and circulated to other Arctic Council working groups prior to the upcoming SAO meeting. The PAME Chair and Secretariat are to further discuss this revised draft project proposal with other Arctic Council working groups at the upcoming SAO meeting to finalize a working method. Interested working groups are requested to circulate a revised version to their members for comments, based on approved working method, by early January 2019. PAME welcomed CAFF's interest in engaging in the Factsheet series project.

Collective efforts by the PAME and CAFF Secretariats' work with UN Environment Programme WCMC to update the Arctic Protected Areas Indicator Report is ongoing. Subject to final outcomes, the report could potentially contribute to next steps on protected areas in the Arctic.

Protection from Invasive Species

PAME and CAFF have established a Joint ARIAS (Arctic Invasive Alien Species Strategy and Action Plan) Implementation Coordinating Group (ICG). PAME has approved the Terms of Reference for the ICG. The plan is to convene a face-to-face meeting in Washington D.C. in early January 2019 to develop project proposals for CAFF and PAME to consider including in their respective 2019-2021 work plans.

Arctic Marine Shipping

PAME, aided by its Shipping Expert Group, continues to advance a number of projects and initiatives to promote safe and sustainable navigation in the Arctic. These include a key project to update the 17 Ministerial-approved Recommendations contained in the 2009 Arctic Marine Shipping Assessment (AMSA) Report, in consultation with all other Arctic Council working groups and task forces, as relevant.

The 2nd annual Arctic Shipping Best Practice Information Forum meeting, 14-15 May 2018 (London, UK), included its web-portal launch (www.arcticshippingforum.is). The 3rd annual Forum meeting will be in 2019.

PAME approved the development of a non-binding Memorandum of Understanding (MOU) with the Arctic Regional Hydrographic Commission (ARHC), subject to concurrence by the SAOs. PAME noted that the ARHC, at its 8th Conference in September 2018 (Svalbard, Norway) expressed its desire to

develop such an MOU. The PAME Secretariat will request approval from the SAOs to proceed with development of the MOU.

The World Meteorological Organization (WMO) gave a presentation at PAME II-2018, and based on this PAME invited the WMO to submit to PAME I-2019 a paper on the Voluntary Observing Ship (VOS) scheme, focusing on the number of ships operating in Arctic waters that participate in the scheme and the value of information they collect to enhancing maritime safety.

PAME welcomed Norway's proposal to compile a list that summarizes how each Arctic and Observer State understands and applies in practice the IMO's Polar Code; encouraged Arctic and Observer States to continue to work towards a harmonized and effective implementation of the Polar Code; and invited them to submit to PAME I-2019 information on Polar Ship Certificates that have been issued by or on behalf of their maritime administrations.

PAME, through its Arctic State IMO contact points, continues to work intersessionally to follow up on MEPC 72/16, *Regional Reception Facilities Plan (RRFP) – Outline and Planning Guide for the Arctic*. The aim is towards a joint submission of the eight Arctic States on the RRFP to IMO's MEPC 74 meeting in 2019.

Good progress has been made in operationalizing the Arctic Ship Traffic Data (ASTD) Project and the official launch of the ASTD database will be in January 2019. The ASTD expert group held a workshop in Reykjavík in September 2018, to advance the work of the project.

One or more workshops are planned in 2019 to discuss options for more systematically engaging Observers in PAME's shipping related work, and a process has been established to revise the draft AMSA update/refresh project matrix (updating the recommendations contained in the 2009 AMSA Report) with the intent to submit a project proposal for inclusion in the PAME 2019-2021 Work Plan.

Arctic Offshore Resource Exploration and Development

The Resource Exploration and Development Expert Group (REDEG) reported on progress on Part II of the *Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities (MEMA) Project*. MEMA Project co-leads will revise and distribute the final draft MEMA Part II report to PAME 30 days in advance of PAME I-2019.

The MEMA database (www.memadatabase.is) is online for comments. Once finalized, the database will be publically available as a resource for those interested in engagement of Indigenous Peoples and local communities. The project co-leads will develop a promotional flyer for distribution and outreach.

The Resource Exploration and Development Expert Group (REDEG) presented an overview on the Arctic Offshore Oil and Gas Guidelines (2009) and possible consideration, via survey, of whether the Guidelines could be updated to address areas related to non-emergency operations, monitoring, and decommissioning.

Ecosystem Approach to Management (EA)

PAME welcomed the *Draft Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems* and decided on next steps for finalizing the Guidelines, including a presentation for discussion at a dedicated session at the Arctic Biodiversity Congress in Rovaniemi, Finland, in 9-11 October 2018 and distribution to CAFF, AMAP and SDWG to seek their input.

A prospectus for a 2nd International EA Conference to be held in Bergen, Norway, in late spring/early summer 2019 has been drafted with a focus on the issue of scale integration in EA implementation. A planning group will be established, including invited representatives of PAME, AMAP, CAFF, SDWG, Permanent Participants, PICES and ICES.

PAME welcomed the continued work of the joint ICES/PICES/PAME Working Group on Integrated Ecosystem Assessment of the Central Arctic Ocean (WGICA), promoting the work on IEA and implementation of EA for the CAO. PAME noted that the draft ToR for continued WGICA work will be considered by ICES and PICES during the next month. These revised ToRs will be circulated to PAME HoDs for review before they are finalized in consultation with ICES and PICES.

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

PAME welcomed the update and presentation on the marine litter project by the five co-leads (Iceland, Norway, Sweden, AIA and OSPAR). A revised draft desktop study and the draft project plan for 2019-2021 will be prepared, taking into account the comments received at PAME II-2018, as well as further comments on the revised draft desktop study and the draft project plan for 2019-2021. PAME invites its members and other Arctic Council working groups to provide comments to the draft study. Development of communication and outreach material is an important component of this project and includes three components PAME is working on: Plastic in a bottle - Sending afloat five capsules with GPS transmitters, a dedicated graphic page on the PAME website and a short video (all items are a work in progress).

Collaboration on other working group projects

PAME works towards strengthening the coordination and collaboration with other working groups 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 working groups 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)". Joint PAME/EPPR project proposal by Norway for the 2019-2021 work plan is currently being circulated for review and comments.

Observers at the PAME II-2018 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. Poland gave such a presentation at PAME II-2018, and China has offered to provide such a presentation at PAME I-2019. Five Observer States were represented at the meeting: Poland, France, the Republic of Korea, China and Japan. Three Observer Organizations were represented: UNEP, WWF and WMO.

PAME Administration for Next Meeting

Sweden has offered to host the next PAME meeting (PAME I-2019) in Malmö. Proposed dates are 4-7 February 2019 to meet the 30 day deadline prior to SAO meeting (12-14 March 2019).

PAME II-2018 October 1-4 Vladivostok, Russia (Final list: 52 registrations)

Nr.	First name	Family name	Department / Ministry	Country / Organization	E-mail
PAME Secretariat					
1	Elizabeth	McLanahan	NOAA-PAME Vice-Chair and PAME Acting Chair	USA	Elizabeth.McLanahan@noaa.gov
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26	Vladimir	Kuzmin	Ministry of Transport of the Russian Federation	The Russian Federation	vladimir.e.kuzmin@gmail.com
27	Olga	Tsyrukun	Federal agency for maritime and river transport	The Russian Federation	tsyrkunoimorflot.ru
28	Mikhail	Pechekazov	Ministry of transport of the Russian Federation-Federal agency of maritime and river transport	The Russian Federation	pnm@pma.ru

PAME II-2018 October 1-4 Vladivostok, Russia (Final list: 52 registrations)

Nr.	First name	Family name	Department / Ministry	Country / Organization	E-mail
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Arctic Council Secretariat and Working Groups					
Others - Invited Experts					
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Annex II: Record of Decisions and follow-up Actions

**PAME II-2018 (2-4 October 2018)
Vladivostok, the Russian Federation**

Opening of the Meeting

PAME thanks the Russian Federation for hosting this Meeting and notes with appreciation the welcoming remarks from by Mr. Vitaly Kluyev, Deputy Head of the Federal State Budgetary Institution "The Administration of the Maritime Ports of Primorsky region and Eastern Arctic" (FSBI "AMP of Primorsky region and Eastern Arctic"); and Mr. Sergey Ogay, Acting Director of the Admiral Nevelskoy Maritime State University.

Information and various updates (Agenda Item 3)

PAME takes note of:

- ✓ *Outcomes from the SAO Meeting in March 2018 and preparations for the upcoming SAO Meeting (1-2 November 2018);*
- ✓ *Contributions by the PAME Secretariat to the Task Force on Arctic Marine Cooperation (TFAMC);*
- ✓ *Update on 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);*
- ✓ *Update on PAME's contribution to the Arctic Resilience Forum (10-11 September 2018);*
- ✓ *The signing of the Agreement To Prevent Unregulated Fishing in the High Seas of the Central Arctic Ocean in Ilulissat, Greenland (2-4 October 2018);*
- ✓ *PAME's participation in the Arctic Contaminants Action Program (ACAP), the Emergency Prevention, Preparedness and Response (EPPR) and the Circumpolar Biodiversity Monitoring Program (CMBP) meetings as a means of coordination and collaboration with other Arctic Council working groups; and*
- ✓ *The summary of Iceland's 2019-2021 Chairmanship Program including three main themes: oceans, climate change and the wellbeing of Arctic communities. Further details will be presented at the upcoming SAO meeting (1-2 November 2018).*

PAME thanks the representative of Poland, Mr. Piotr Graczyk, for his presentation on Poland's Arctic interests of relevance to PAME's work.

PAME welcomes the offer by China to present at PAME I-2019 on its Arctic interest and relevance to PAME's work.

PAME thanks the representative from the World Meteorological Organization, Ms. Sarah Grimes, and Finland for their presentations on the relevance of meteorology to PAME's work and offer to contribute their expertise in support of relevant PAME projects.

PAME invites its members to consider how meteorological information can support ongoing work, in particular on shipping and invasive species-related work and to incorporate it into future projects as appropriate.

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 27-29 November 2018 in Cambridge Bay, Nunavut, Canada and invites members to nominate additional participants and speakers no later than October 31.

PAME thanks Finland for its update on the revised draft proposal for a Factsheet series on Arctic climate change impacts and decides to proceed with the development of Factsheets based on the following next steps:

- ✓ *Project leads to revise the draft project proposal based on discussions and comments received at PAME II-2018 and submit the revision to the PAME Secretariat for circulation to other Arctic Council working groups prior to the upcoming SAO meeting;*
- ✓ *PAME Chair and Secretariat to further discuss this revised draft project proposal with other Arctic Council working groups at the upcoming SAO meeting to finalize a working method;*
- ✓ *PAME Chair to request interested Arctic Council working group chairs to circulate the draft project proposal to its members for comments based on approved working method by early January 2019; and*
- ✓ *Project leads to finalize project proposal and submit it to PAME, concurrent with other working group processes, for approval and inclusion in the 2019-2021 Work Plan at PAME-I 2019.*

PAME welcomes CAFF's interest in engaging in the Factsheet series project pending outcomes of the review and approval process.

PAME supports the concept of including an activity related to connectivity, as proposed by Sweden, in the 2019-2021 Work Plan, and requests Sweden to circulate a draft project proposal for review prior to PAME I-2019.

PAME takes note of the PAME and CAFF Secretariats' work with UN Environment Programme WCMC to update the Arctic Protected Areas Indicator Report and looks forward to receiving the report for review. PAME notes the report's possible contribution to potential next steps on protected areas in the Arctic.

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 its plans to convene a face-to-face meeting in Washington D.C. in early January 2019 to develop project proposals for submission to CAFF and PAME for consideration of inclusion in their respective 2019-2021 work plans.

PAME approves the Terms of Reference for the ICG.

PAME thanks Canada for its leadership as the PAME co-chair of the ICG and invites Member States to nominate a representative to succeed Canada in that role by 1 December 2018.

PAME requests the PAME Secretariat to continue liaising with the CAFF Secretariat on the developments of the ICG.

Arctic Marine Shipping Assessment (Agenda Item 6)

Theme I: Enhancing Arctic Marine Safety

AMSA I (A) - Linking with International Organizations

PAME acknowledges the success of the 2nd annual Arctic Shipping Best Practice Information Forum meeting 14-15 May 2018 (London, UK), and welcomes the launch of its web-portal (www.arcticshippingforum.is). PAME notes that the 3rd annual Forum meeting will take place in 2019.

- *PAME encourages Forum participants to continue to submit relevant information for posting to the Forum's web portal via the [hyperlinked submission form](#) and to provide feedback to further improve the web-portal content.*
- *PAME instructs the SEG Co-Chairs and the Forum Chair to provide a status report at PAME I-2019 on plans for the 3rd annual Forum meeting.*

PAME approves the development of a non-binding Memorandum of Understanding (MoU) with the Arctic Regional Hydrographic Commission (ARHC) subject to concurrence by the SAOs. PAME notes that the ARHC, at its 8th Conference in September 2018 (Svalbard, Norway) expressed its desire to develop such an MOU with PAME. PAME requests the project co-leads to pursue discussions with the ARHC on the draft terms of an MOU and notes that its development will be part of PAME's draft 2019-2021 Work Plan.

PAME invites the WMO to submit to PAME I-2019 a paper on the Voluntary Observing Ship (VOS) scheme, focusing on the number of ships operating in Arctic waters that participate in the scheme and the value of information they collect to enhancing maritime safety.

PAME will continue its efforts to strengthen cooperation with international organizations and notes the application by the International Maritime Organization (IMO) for an observer status to the Arctic Council.

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 (USA/AIA/CCU) – PAME welcomes progress made to date on this project and encourages timely responses from indigenous and local communities to the field survey distributed by AIA. PAME requests the co-leads in cooperation with the Secretariat and SDWG, to send a letter to the Permanent Participants underscoring the importance of the information that the project is intended to collect. PAME invites the co-leads to provide a status report to PAME I-2019.

HFO Phase IV (d) – Explore the Environmental, Economic, Technical and Practical Aspects of the use by Ships in the Arctic of Alternative Fuels (Norway/WWF) – PAME invites the project co-leads to present the final report on this project at PAME I-2019.

PAME welcomes Norway’s proposal to compile a list that summarizes how each Arctic and Observer State understands and applies in practice IMO’s Polar Code. Norway will circulate a template by 20 October 2018 to be used in submission of such information. PAME invites Arctic and Observer States to make submissions by 15 January 2019. Norway will present an overview at PAME I-2019.

PAME encourages Arctic and Observer States to continue to work towards a harmonized and effective implementation of the Polar Code. PAME additionally invites Arctic and Observer States to pursue a Polar Code Concentrated Inspection Campaign in the Paris and Tokyo MoUs.

PAME invites Arctic and Observer States to submit to PAME I-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.

AMSA I (C) - Uniformity of Arctic Shipping Governance

PAME invites the project co-leads (Canada/Iceland/AIA/WWF) to circulate a revised draft, through the correspondence group, of the Safe and Low Impact Shipping Corridors project report by 15 November 2018 and invites comments by 15 December 2018 with a view to submit a final report to PAME I-2019.

Theme II: Protecting Arctic People and the Environment

AMSA II (D) – Specially Designated Arctic Marine Areas

PAME invites its Member States IMO contact points to continue to work intersessionally to follow up on MEPC 72/16, Regional Reception Facilities Plan (RRFP) – Outline and Planning Guide for the Arctic, based on the following timeline:

15 November 2018: Provide comments, if any, to Russia on the intersessionally circulated draft submission to IMO.

1 December 2018: Russia to provide final revised draft to Member States.

15 December 2018: Member States agree to any changes reflected in the final revised draft.

30 December 2018: Russia to circulate final version to Member States.

1 February 2018: Member States provide confirmation of co-sponsorship of a joint submission on this RRF at MEPC 74.

AMSA II (G) – Addressing Impacts on Marine Mammals

PAME invites comments on, and additional literature sources to, the Canada/WWF/OSPAR draft report on Underwater Noise in the Arctic State of Knowledge, by 26 October 2018. The project co-leads will submit a final draft to PAME I-2019.

Theme III: Building the Arctic Marine Infrastructure

AMSA III (B) – Arctic Marine Traffic Systems

PAME welcomes the continued progress made in operationalizing the Arctic Ship Traffic Data (ASTD) Project and notes the planned launch of the ASTD database in January 2019. PAME requests that the ASTD Participant States verify their ASTD Designated Contact Person by informing the PAME Secretariat no later than 15 December.

PAME invites its members to review the Compendium of Arctic Ship Accidents (CASA) data compiled by the USA, available on the PAME II-2018 password protected website, and identify any errors or omissions by PAME I-2019. PAME also invites Arctic States to submit additional or supplemental ship accident information and requests comments by 1 December on the preliminary CASA analysis contained in PAME II-2018 6.7(b) (Status on the joint PAME/EPPR project). Subject to concurrence by EPPR, PAME recommends that each Arctic State designate one national focal point for this project and inform the project lead. PAME invites the United States to provide an update of the project at PAME I-2019.

Engagement of Observer States in PAME’s shipping-related activities

PAME welcomes the proposal by the project co-leads (USA/Italy/Poland/Republic of Korea) to organize one or more workshops in 2019 to discuss options for more systematically engaging Observers in PAME’s shipping related work. PAME notes the preference to hold any workshops back-to-back with a PAME meeting or the annual Arctic Shipping Best Practice Information Forum Meeting. PAME invites its members, in particular its Observers, to submit comments on the Draft Workshop Agenda contained in PAME II-2018 6.8(a) (Observer engagement on shipping).

Update on PAME’s shipping priorities and recommendations

PAME invites the project co-leads by 30 October 2018 to circulate a revised draft project report and matrix and notes their intent to submit a project proposal for inclusion in the PAME 2019-2021 Work Plan.

Other shipping-related items

- ✓ *PAME thanks the Republic of Korea for inviting PAME SEG representatives to participate in Korea's 3rd Arctic Partnership Week (10-14 December 2018, Busan, Republic of Korea).*
- ✓ *PAME requests the Secretariat to invite a representative of the Swedish Shipowners' Association to give a presentation on Arctic shipping during the PAME I-2019 SEG pre-meeting.*
- ✓ *PAME noted the offer by China to provide a presentation on its shipping activities at PAME I-2019 SEG pre-meeting.*
- ✓ *PAME requests the Secretariat to circulate to the 13 Observer States the current list of their shipping contacts with an invitation to verify that the listed contacts are appropriate.*
- ✓ *PAME notes the receipt of information from EPPR on "Risk assessment and metadata – development of a guideline and tool."*
- ✓ *Norway presented the idea of a joint PAME/EPPR project concerning environmental toxicity of light and intermediate fuel oils and the fate of such oils when spilled in cold waters. PAME invites Norway to circulate a draft project proposal for review prior to PAME I-2019.*
- ✓ *PAME invites all of its members to submit to PAME I-2019 draft shipping related project proposals for potential inclusion in PAME's 2019-2021 Work Plan. In so doing, PAME requests its members to ensure that project proposals are consistent with and advance the Arctic Marine Strategic Plan (2015-2025), the Arctic Ocean Review (AOR) Final Report (2013), and/or the AMSA (2009). PAME also requests that members explore joint working group opportunities and remain mindful of focusing PAME's shipping related work on the highest priority issues.*

Arctic Offshore Resource Exploration and Development (Agenda item 7)

MEMA:

- ✓ *PAME notes the update and presentation of the Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities project (MEMA) Part II. Project co-leads briefly described the latest Draft MEMA Part II report and welcome any additional comments on the document by 31 October 2018. MEMA Project co-leads will revise and distribute the final draft MEMA Part II report to PAME 30 days in advance of PAME I-2019.*
- ✓ *PAME welcomes the demonstration of the MEMA database – memadatabase.is. The project co-leads request comments on the database by 31 October 2018. Once finalized, the database will be publically available as a resource for those interested in engagement of Indigenous Peoples and local communities. The project co-leads will develop a promotional flyer for distribution and outreach.*

Arctic Offshore Oil and Gas Guidelines (AOGG):

- ✓ *The Resource Exploration and Development expert group (REDEG) presented an overview on the Arctic Offshore Oil and Gas Guidelines (2009) and possible consideration of whether*

the Guidelines could be updated to address areas related to non-emergency operations, monitoring, and decommissioning. To that end, REDEG will distribute a survey to PAME for response by 30 November 2018. Responses to the survey will help to inform any possible future work on the AOOGG in 2019-2021.

PAME thanks Finland for their update on the Arctic EIA project and notes the final outcome will be an SDWG deliverable to the 2019 Ministerial meeting.

Ecosystem Approach to Management (Agenda item 8)

PAME welcomes the progress report on the work on the Ecosystem Approach to Management (EA) topic according to the agreed 2017-2019 PAME Work Plan.

PAME welcomes the Draft Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems and decides on next steps for finalizing the Guidelines:

- ✓ The draft guidelines, having been reviewed by EA-EG members, will be distributed to CAFF, AMAP and SDWG after the conclusion of PAME-II 2018. Feedback from PAME and the other working groups is requested by 9 November 2018.*
- ✓ The draft guidelines will be presented for discussion at a dedicated session at the Arctic Biodiversity Congress in Rovaniemi, Finland, in 9-11 October 2018. Any additional feedback from Congress members is requested by 9 November 2018.*
- ✓ The EA-EG will prepare a revised draft final set of guidelines in consultation with the working groups. The draft final guidelines will be circulated to PAME 30 days before PAME I-2019 for finalization and approval.*

PAME welcomes the prospectus for a 2nd International EA Conference to be held in Bergen, Norway, in late spring/early summer 2019, with a focus on the issue of scale integration in EA implementation. PAME agrees that the chairs of the EA-EG will form a planning group before the end of November 2018, including invited representatives of PAME, AMAP, CAFF, SDWG, Permanent Participants, PICES and ICES.

PAME welcomes the interim report from the joint ICES/PICES/PAME Working Group on Integrated Ecosystem Assessment of the Central Arctic Ocean (WGICA), and notes the on-going work to produce the report "Integrated Ecosystem Assessment of the Central Arctic Ocean: Ecosystem Description and Vulnerability Characterization", to be completed by the end of 2018. This report will be made available to HoDs for informational purposes. A peer-review process will be decided within the WGICA in consultation with ICES, PICES and PAME.

PAME welcomes the continued work of the WGICA promoting the work on IEA and implementation of EA for the CAO. PAME notes that the draft ToR for continued WGICA work will be considered by ICES and PICES during the next month. These revised ToRs will be circulated to PAME HoDs for review before they are finalized in consultation with ICES and PICES.

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 for outreach purposes to inform about progress, status and seek inputs, as relevant.

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

PAME welcomes the update and presentation on the marine litter project by the five co-leads (Iceland, Norway, Sweden, AIA and OSPAR).

The co-leads will revise the draft desktop study and the draft project plan for 2019-2021 taking into account the comments received at PAME II-2018 and any additional comments received by 15 October. The revised draft desktop study and the draft project plan for 2019-2021 will be sent out for additional comments by 9 November. PAME invites its members and other Arctic Council working groups to provide comments by 7 December.

The final draft desktop study and draft project plan 2019-2021 will be distributed 30 days in advance of the PAME I-2019 for review and consideration.

The project co-leads will continue to work closely with other Arctic Council working groups and engage with relevant experts, observers, and international organizations, as appropriate.

Preparations for the 2019 Ministerial Meeting (Agenda item 10)

PAME members are requested to fill in the PAME project plan template with projects for PAME's 2019-2021 Work Plan. The deadline to submit project plans for new projects for consideration for the PAME 2019-2021 Work Plan is 30 days prior to PAME I-2019.

The SAO Report will be 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 all draft projects proposals for consideration in the PAME 2019-2021 Work Plan and requests that any revisions to the draft project proposals presented at PAME II-2018 be circulated by 1 November 2018 for comments by 1 December 2018, unless otherwise specified.

- ✓ *PAME Chair and Secretary to prepare a 1st draft of the PAME 2019-2021 Work Plan, based on the discussions at this Meeting and the proposed activities as listed in Annex I **by 19 October.***
- ✓ *PAME members to provide comments and indications/confirmations of leads for the continuation of existing PAME activities, proposals for new projects/activities, and lead responsibilities **by 9 November.***
- ✓ *PAME Chair and Secretary to submit the revised draft PAME 2019-2021 Work Plan to the Arctic Council process **by 15 November** deadline as provided by the Arctic Council Chairmanship.*
- ✓ *PAME members to provide comments to the 15th of November version **by 30 December 2018.***

Report on 2017-2019 Achievements:

- ✓ *PAME Chair and Secretary to distribute the 1st draft of the PAME 2017-2019 achievements for the SAO Report to PAME members **by the 19 October** with a deadline for comments **by***

9 November. The 1st draft will be submitted to the Arctic Council Chairmanship by the 15 November 2018 deadline.

- ✓ The final draft of PAME contributions to the SAO Report and the final list of PAME 2019 Ministerial deliverables will be distributed in **January 2019** for comments and final approval at PAME I-2019.

PAME members to provide input to the 1st draft of the 2nd AMSP Implementation Report by 15 November 2018 to the PAME Secretariat. Revised version sent out 30 days prior to PAME I-2019.

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

A preliminary 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 (1-2 November 2018) 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 I-2019 meeting.

PAME thanks the PAME expert groups for their excellent work, both intersessionally and during the meeting.

PAME requests the Secretariat to send out the current list of nominated experts in PAME's expert groups and urges PAME members and other Arctic Council working groups to update their nominated experts by 30 November 2018.

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

PAME thanks Sweden for their offer to host PAME I-2019 in Gothenburg by mid-February 2019 to meet the 30 day deadline prior to SAO meeting (12-14 March 2019). Proposed dates are 4-7 February 2019.

Annex I - Proposed Projects for PAME Work Plan (2019-2021)

This list is preliminary and will be further refined for the PAME I-2019 final approval. The inclusion of projects on this list does not prejudice any subsequent decision or approval on them.

Framework for a Pan-Arctic Network of MPAs:

- ✓ Expansion/refinement of the MPA Toolbox
- ✓ Connectivity study
- ✓ Collaboration with CAFF on cooperative work between our working groups, possibly including with WCMC on the Indicator Report
- ✓ Production of communication materials: Factsheet(s) development

Protection from Invasive Species

- ✓ Possible project proposals based on outcomes of the face-to-face meeting in Washington D.C. in early January 2019.

Arctic Marine Shipping:

- ✓ Black Carbon and Methane mitigation measures for shipping in the Arctic (Iceland)
- ✓ Report on Arctic ship traffic based on ASTD information (USA (to be confirmed)/PAME Secretariat)
- ✓ A follow up to the CASA project, including to incorporate its results in the ASTD (PAME/EPPR) (USA)
- ✓ AMSA recommendation update refresh (USA/Canada)
- ✓ A framework for more systematically engaging with Observers on shipping related matters (USA/Italy/Poland/Republic of Korea)
- ✓ PAME-ARHC Memorandum of Understanding (USA/Canada)
- ✓ Study/report on discharge of grey water from vessels in the Arctic (Canada/(to be confirmed)/WWF)
- ✓ Study/report on underwater noise from vessels in the Arctic (Canada/(to be confirmed)/WWF)
- ✓ Study/report on toxicity and fate of light and intermediate fuel oils when spilled on a cold water surface (Norway/Finland (TBC)/EPPR (TBC))
- ✓ Study/report on indigenous and local community reliance on HFO (PAME/SDWG) (USA/AIA/CCU)
- ✓ Two projects following up on the Arctic Marine Tourism Project (Iceland)
- ✓ Further development of the ASTD database (USA/Norway)
- ✓ Further elaboration of the Shipping Forum's web-portal and outreach to increase awareness (Iceland/USA/Canada)

Arctic Offshore Resource Exploration and Development (REDEG):

- ✓ Information handbook or reference guide as a practical tool for engagement with indigenous peoples and local communities. PAME will reach out to SDWG to explore their possible interest in collaborating on this information handbook or reference guide.
- ✓ (Short) Information sheet on meaningful engagement of indigenous peoples and local communities in marine activities.
- ✓ Responses to the survey will help to inform any possible future work on updating existing guidance within the AOOGG.

Ecosystem Approach to Management (EA):

- ✓ Arrange and report from the 2nd International Conference on Implementing the Ecosystem Approach to Management in the Arctic, to be held in Bergen, Norway, in spring/early summer 2019. The core theme of the conference is the issue of scale integration in the context of EA implementation.
- ✓ Hold a 7th EA workshop in 2020 with focus on element No. 5 of the EA framework: Value the cultural, social, and economic goods and services produced by the ecosystem.
- ✓ Continue emphasis on development of Integrated Ecosystem Assessment (IEA). Continue to report on developments within ICES/PICES/PAME Working Group on Integrated Ecosystem Assessment (WGICA) as well as other ICES activities on IEA, the meetings of scientific experts on fish stocks in the central Arctic Ocean, and any other relevant activities, e.g., in the U.S. NOAA IEA program.
- ✓ Report on developments in defining or setting ecological quality objectives in the context of EA implementation in national and international processes.

Marine Litter

- ✓ Regional action plan on marine litter (Iceland/Norway/Sweden/Canada (TBC)/USA (TBC)/AIA (TBC)/OSPAR)
- ✓ Communication and outreach products

Annex II - Preliminary list of deliverables to the 2019 Ministerial

This list is preliminary and will be further refined for the PAME I-2019 final approval.

Framework for a Pan-Arctic Network of MPAs:

- ✓ MPA Workshop reports for 3rd and 4th workshops for PAME I-2019 (USA, Finland, Sweden, MPA-EG)
- ✓ Toolbox expansion based on 4th workshop on indigenous and local engagement in marine protected areas (Canada)

Arctic Marine Shipping:

- ✓ Arctic Shipping Best Practice Information Forum (Finland/Canada/USA/PAME Secretariat)
 - Report
 - Web-portal
- ✓ Report on the environmental, economic, technical and practical aspects of the use by ships in the Arctic of alternative fuels (Norway/WWF)
- ✓ Underwater Noise in the Arctic: A State of knowledge report (Canada/WWF)
- ✓ Report on the Safe and Low Impact Shipping Corridors (Canada/Iceland/AIA/WWF)
- ✓ Arctic Ship Traffic Data Project (USA)
 - Report
 - Database
- ✓ Regional Reception Facilities Plan (RRFP) – Outline and Planning Guide for the Arctic, Joint submission to IMO.

Arctic Offshore Resource Exploration and Development (REDEG):

- ✓ MEMA Part II Executive Summary for Policy Makers (possibly as a standalone document) (Canada/USA)
- ✓ MEMA Part II Findings for Policy Makers (full report) (Canada/USA)
- ✓ MEMA Database

Ecosystem Approach to Management (EA):

- ✓ Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems (Norway/USA/EA-EG)
- ✓ ICES/PICES/PAME Working Group on Integrated Ecosystem Assessment of the Central Arctic Ocean (WGICA) Report “Integrated Ecosystem Assessment of the Central Arctic Ocean: Ecosystem Description and Vulnerability Characterization”
- ✓ Progress report on the EA-EG 2017-2019 Workplan

Marine Litter:

- ✓ Desktop study on Marine Litter, including microplastics in the Arctic (Phase I) (Iceland/Norway/Sweden/AIA/OSPAR)
- ✓ Communication and outreach products

Other:

- ✓ 2nd reporting on progress/implementation of the 2015-2025 Arctic Marine Strategic Plan (AMSP).
- ✓ PAME Summary Report of 2017-2019 Activities.
- ✓ 2019-2021 PAME Work Plan.

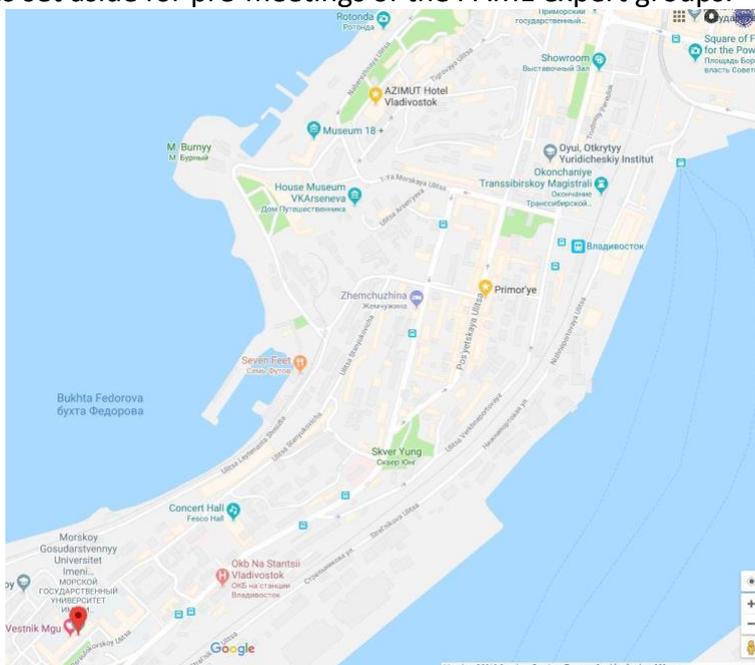
PAME

Protection of the Arctic Marine Environment

PAME II-2018 Working Group Meeting Admiral Nevelskoy Maritime State University Vladivostok, the Russian Federation 1-4 October 2018

Annex III: PAME II-2018 Final Agenda with Timeline

The PAME Working Group Meeting (PAME II-2018) was held from 1-4 October 2018 at the facilities of Admiral Nevelskoy Maritime State University (*red mark on the map*). Address: Verkhneportovaya Street 50a, Vladivostok (Website <https://old.msun.ru/en/>). Monday the 1st of October was set aside for pre-meetings of the PAME expert groups.



Leads on respective activities are requested to prepare for this meeting in accordance with the PAME Work Plan 2017-2019 and Records of Decisions from the PAME I-2018 meeting. PAME delegations are invited to include IMO, EA, MPA, Resource Exploration and Development, Marine Litter and other experts in their delegations to the PAME II-2018 meeting.

The aim of this Meeting is as follows:

- 1 Leads on respective activities to provide status on progress to date in accordance with the PAME I-2018 Records of Decisions and the PAME 2017-2018 Work Plan and propose

timelines to finalize respective activities/projects for deliverables to the 2018 Ministerial meeting (early May).

- 2 Agree on updates/status for the next SAO meeting 24-26 October 2018 in Rovaniemi to include a list of planned deliverables for the April 2019 Ministerial meeting.
- 3 Compile proposed activities and projects for possible inclusion into the PAME Work Plan 2019-2021 to include draft content, new proposed projects and indications of lead/co-leads. Use the AMSP 2015-2025 Implementation plan as the framework.
- 4 Agree on timelines/milestones of actions and activities needed up to May 2019 Ministerial meeting to include the final draft of the PAME Work Plan 2019-2021 and inputs to the SAO Report to Ministers as per guidance from the Arctic Council/Finnish Chairmanship.

Documents requiring decisions from this meeting should be distributed 30 days in advance, or by 4th of September 2018 in accordance with the Arctic Council's Working Groups Common Operating Guidelines.

PAME II-2018 Main Agenda Items¹

2-4 October 2018

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: Desktop Study on Marine Litter including Microplastics in the Arctic

Item 10: Preparations for the 2017 Ministerial Meeting and Arctic Marine Strategic Plan (AMSP) Implementation:

- 10.1 Process and timeline to develop the 2019-2021 PAME Work Plan, taking into account the AMSP 2015-2025 Implementation Plan.
- 10.2 2017 Ministerial submissions --SAO Report to Ministers and timeline to finalize 2017 Ministerial deliverables.

Item 11: Summary of Meeting Decisions and Follow up Actions (Chair & Secretariat)

Item 12: Any other business and closing of the Meeting

End of PAME II-2018 Meeting at 17:00

¹ Details on the pre-meetings agendas for 1st of October to be provided.

PAME II-2018 Pre-Meetings

MONDAY, October 1

The pre-meetings will take place at the facilities of Admiral Nevelskoy Maritime State University.

Following is a list of the times of the pre-meetings:

Breakout room: A (ca. 25-30 persons)	Breakout room: B (ca. 20-25 persons)	Breakout room: C (ca. 25-30 persons)
<p><u>10:00/10:00-17:00 (whole day)</u> <i>Shipping Experts Group (SEG)</i> The agenda has been posted</p>	<p><u>09:00-11:00</u> <i>Resource Exploration and Development Expert Group (REDEG)</i> The agenda will be the items under Agenda Item 7.</p>	<p><u>09:30-15:00</u> <i>Marine Litter Seminar</i></p>
	<p><u>11:00-13:00</u> <i>Ecosystem Approach Expert Group</i> The agenda will be the items under Agenda Item 8.</p>	
	<p><u>13:00-15:00</u> <i>MPA Expert Group</i> The agenda has been posted</p>	
	<p><u>15:00-17:00</u> <i>Marine Litter Expert Group</i> The agenda will be the items under Agenda Item 9.</p>	

**PAME II-2018 Working Group Meeting 2-4 Oct
Admiral Nevelskoy Maritime State University
Vladivostok, the Russian Federation**

Documentation

All PAME II-2018 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, October 2		
<i>Timeline</i>	<i>Agenda items</i>	<i>Note/Leads</i>
08:30-09:00	Registration of PAME meeting participants	
09:00-10:30	<p>Item 1: Opening of the Meeting</p> <ul style="list-style-type: none"> ✓ <i>Welcoming Remarks by the PAME Chair</i> ✓ <i>Welcoming remarks by Mr. Dregval Andrey, Head of the Federal State Budgetary Institution "The Administration of the Maritime Ports of Primorsky region and Eastern Arctic" (FSBI "AMP of Primorsky region and Eastern Arctic")</i> <p>Item 2: Introduction and Adoption of the Agenda</p> <p>Item 3: Information and various updates</p> <p>3.1 <i>Outcomes from SAO meeting (Mar 2018)</i></p> <p>3.2 <i>Contributions to the The Arctic Biodiversity Congress (9-11 Oct 2018) and the Arctic Council's Environment Ministerial meeting (11-12 Oct 2018)</i></p> <p>3.3 <i>Outcomes from other Arctic Council relevant meetings/activities</i></p> <ul style="list-style-type: none"> • <i>Task Force on Arctic Marine Cooperation (TFAMC)</i> • <i>The Arctic Resilience Forum meeting (10-11 Sep 2018)</i> <p>3.4 <i>Other relevant international meetings</i></p> <p>3.5 <i>Presentation by Poland as an Arctic Council Observer State on contributions and interests of relevance to PAME work</i></p> <p>3.6 <i>A topic on the Finnish Chairmanship agenda: Links between national and international meteorological work and the work by PAME (20 min)</i></p> <p>3.7 <i>Iceland's 2019-2021 Chairmanship program and priorities</i></p>	<p>Chair Chair</p> <p>Chair/Finland</p> <p>Chair Jan Ekebom</p> <p>Piotr Graczyk</p> <p>Sarah Grimes/WMO</p> <p>Iceland</p>
10:30-11:00	<p>Item 4: Pan-Arctic Network of Marine Protected Areas (MPAs)</p> <p>4.1 <i>Update on plans for 4th MPA Workshop (Canada in 2018)</i></p> <p>4.2 <i>Summary of the MPA EG action table as a reference in developing project proposals for the 2019-2021 work cycle.</i></p> <p>4.3 <i>Summary of revised draft proposal for an Arctic Marine Climate Change Impact Fact Sheet</i></p>	<p>Canada</p> <p>USA, MPA-EG</p> <p>Finland</p>

	<p>4.4 Update on the work of the PAME and CAFF Secretariats to work together and liaise with UN Environment Programme on the planned work to update the Arctic Protected Areas Indicator Report.</p> <p>4.5 Overview of recommendations from the Arctic Council that relate to marine protected areas and the actions taken in response.</p> <p>4.6 Agree to a timeline to finalize deliverables for the 2019 Ministerial meeting and discussions on inclusion of MPA activities in the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p>	<p>PAME Secretariat</p> <p>PAME Secretariat</p> <p>All</p>
11:00-11:30	<p>Item 5: Protection from Invasive Species</p> <p>5.1 Update on the implementation of the Arctic Invasive Alien Species Strategy and Action Plan (ARIAS) Strategy and Action Plan (in collaboration with CAFF)</p> <p>a) ARIAS Joint Coordination Group ToR and nomination of members.</p> <p>b) Proposed implementation actions/projects by the ARIAS Joint Coordination Group for inclusion into PAMEs and CAFFs 2019-2021 work plans.</p> <p>5.2 Agree to a timeline to finalize deliverables for the 2019 Ministerial meeting and discussions on inclusion of ARIAS activities in the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p>	<p>Canada/USA</p> <p>All</p>
11:30-17:00	<p>Item 6: Arctic Marine Shipping Assessment activities–status and updates (various leads) <i>Refer to the PAME Shipping Expert Group pre-meeting agenda (to be provided)</i></p>	
11:30-12:00	Summary from the Shipping Experts Group pre-meeting	SEG Co-chairs
13:00-15:00	<i>Theme I: Enhanced Arctic Maritime Safety</i>	
	<p>6.1 <u><i>Linking with International Organizations (I(A))</i></u></p> <p>a) Arctic Shipping Best Practices Information Forum</p> <p>i. 2nd meeting of the Forum and launch of it’s web-portal.</p> <p>ii. Discussions and next steps.</p>	Can/ Fin/USA
	<p>6.2 <u><i>IMO Measures for Arctic Shipping (I(B))</i></u></p> <p>a) <i>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</i></p> <p>i. <i>HFO Phase IV(a) – Status on information submissions to collect and report information on use of Heavy Fuel Oil (HFO) in the Arctic.</i></p> <p>ii. <i>HFO Phase IV(b) – Summary of a draft report on information compiled on-shore use by Indigenous and Local Community Reliance Upon Heavy Fuel Oil (HFO) project.</i></p> <p>iii. <i>HFO Phase IV(d) – Status on the project: Explore the environmental, economic, technical and practical aspects of the use by ships in the Arctic of alternative fuels.</i></p> <p>b) Harmonized implementation of the Polar Code</p> <p>i. Summary of the project proposal on the Harmonized Implementation of the Polar Code.</p> <p>ii. Proposal to facilitate a harmonised implementation of the Polar Code, submitted by Norway</p> <p>c) MoU with the Arctic Regional Hydrographic Commission (ARHC)</p>	<p>SEG/All</p> <p>USA</p> <p>USA/AIA/CCU</p> <p>Norway</p> <p>Finland Russia</p> <p>Norway</p>

	<ul style="list-style-type: none"> i. Summary of proposal to Develop a Memorandum of Understanding with the ARHC ii. Discussions and next steps 	Canada/USA
	<p>6.3 <u>Uniformity of Arctic Shipping Governance (I(C))</u></p> <ul style="list-style-type: none"> a) Update on the Low Impact Shipping Corridors project proposal. b) Discussions and next steps. <p><i>Note: To be discussed at the SEG pre-meeting</i></p>	Canada/Iceland/AIA
15:15-15:45	<i>Theme II: Protecting Arctic People and the Environment</i>	
	<p>6.4 <u>Survey of Arctic Indigenous Marine Use (II(A))</u></p> <p>Update by the Aleut International Association on its Arctic Indigenous Marine Use: Tools For Communities Project.</p>	AIA
	<p>6.5 <u>Addressing Impacts on Marine Mammals (II(G))</u></p> <ul style="list-style-type: none"> a) State of the Knowledge report on underwater noise b) Discussions and next steps 	Canada/WWF/OSPAR
15:45-17:00	<i>Theme III: Building the Arctic Marine Infrastructure</i>	
	<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>	Russia/USA
	<p>6.7 <u>Arctic Marine Traffic Systems (III(B))</u></p> <ul style="list-style-type: none"> a) Arctic Ship Traffic Data project: <ul style="list-style-type: none"> i. ASTD, demonstration and summary from the Sep 2018 ASTD Workshop in Reykjavik. ii. Status and next steps b) Status on the joint PAME/EPPR Compendium of Arctic Ship Accidents (CASA) project. 	USA/Norway USA
	<p>6.8 <u>Engagement of Observer States PAME's shipping-related activities</u></p> <ul style="list-style-type: none"> a) Summary of responses received and next steps for the project: <i>Developing and Approach/Framework for more Systematically Engaging with Observers on PAME's Shipping Related Work.</i> b) Discussions and next steps. 	USA Italy Korea Poland
	<p>6.9 <u>Shipping-related work and preparations for the 2019 Ministerial</u></p> <ul style="list-style-type: none"> a) Presentation by a representative from the Russian National Chamber of Shipping: <i>Ms. Olga Sychenikova, Director, International Affairs and Competitiveness, Russian Chamber of Shipping.</i> b) Update on PAME's shipping priorities and recommendations: the revised AMSA update/refresh project matrix (updating the recommendations contained in the 2009 AMSA Report). c) Summary of shipping related project proposals for potential inclusion in PAME's 2019-2021 Work Plan. (<i>Agenda item 10</i>). 	Ms. Olga Sychenikova USA/Canada SEG/all

From 18:00 Details to be provided	<p align="center">Excursion to the Primorsky Aquarium: http://primocean.ru/en/index.html The transportation will be provided to/from Aquarium. Joined Mr. Yury Kostin, Deputy Head of Federal Agency for Maritime and River Transport</p>	
WEDNESDAY, October 3		
Timeline	Agenda items	Note/Leads
09:00-10:00	<p>Item 7: Arctic Offshore Resource Exploration and Development</p> <p>7.1 Summary on status of the Meaningful Engagement of Indigenous Peoples and Communities in Marine Activities project (MEMA) Part II.</p> <p>a) Discussion on revised draft MEMA Part II Report</p> <p>b) Timeline and next steps including options for future project outputs beyond the report and executive summary, which may include an information handbook.</p> <p>c) MEMA database demonstration</p> <p>7.2 Resource and Exploration and Development (REDEG).</p> <p>a) Presentation highlighting the role of the Akademik Lomonosov floating nuclear power plant</p> <p>7.3 Update on the Arctic EIA project: state of play & next step.</p> <p>7.4 Agree to a timeline to finalize deliverables for the 2019 Ministerial meeting and discussions on inclusion of REDEG activities in the PAME 2019-2021 Work Plan. (<i>Agenda item 10</i>)</p>	<p>USA/Canada</p> <p>PAME Secretariat</p> <p>(TBC)</p> <p>Finland</p> <p>All</p>
10:00-11:00	<p>Item 8: Ecosystem-based Approach to Management</p> <p>8.1 EA-EG work plan items 2017-2019-status and next steps.</p> <p>8.2 Summary of the first set of draft guidelines, based on the outcome from the 6th EA workshop (9-11 Jan 2018, Seattle, USA).</p> <p>8.3 Update and next steps on the PAME/ICES Working Group on Integrated Ecosystem Assessment in the Central Arctic Ocean (WGICA).</p> <p>8.4 Agree to a timeline to finalize deliverables for the 2019 Ministerial meeting and discussions on inclusion of EA activities in 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>All</p>
11:00-12:00	<p>Item 9: Marine Litter, including Microplastics</p> <p>Summary on status and next steps on the Desktop Study on Marine Litter including Microplastics in the Arctic (Phase I).</p> <p>a) Summary from the Marine Litter Workshop (5-6 June 2018)</p> <p>b) 2nd draft of the Desktop Study on Marine Litter including Microplastics in the Arctic and its draft recommendations on next steps.</p> <p>c) Communication and outreach material</p> <p>d) Agree to a timeline to finalize deliverables for the 2019 Ministerial meeting and discussions on inclusion of marine litter 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	<p>Item 10: Preparations for the 2019 Ministerial Meeting and AMSP Implementation:</p> <p>10.1 Process and timeline to develop the 2019-2021 PAME Work Plan, taking into account the AMSP 2015-2025 Implementation Plan.</p>	<p>PAME Chair</p> <p>All</p>

	<p>a. propose possible projects/activities for consideration in the PAME 2019-2021 Work Plan from PAME members.</p> <p>b. Update the AMSP 2015-2025 Implementation Plan as it relates to PAMEs mandate and activities</p> <p>10.2 2017 Ministerial submissions --SAO Report to Ministers and timeline to finalize 2017 Ministerial deliverable</p>	
14:00-17:15	<p>PAME Breakout sessions: The aim is to finalize relevant documents, prepare a timeline to finalize 2019 Ministerial deliverables, prepare a list of potential projects for inclusion to the PAME 2019-2021 Work Plan and prepare draft RoDs for further discussion and agreement under Agenda Item 11.</p> <p>Shipping expert group 14:00-17:00 MPA expert group 14:00-15:00 REDEG group 15:15-17:00 EA expert group 15:15-16:15 Marine litter expert group 16:15-17:15</p>	
<i>Respective leads to provide draft RoDs to the PAME Secretary by end of the day/midnight</i>		

THURSDAY, October 4		
<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
<i>Details to be provided</i>	water walk at the sailing ship "Nadezhda" and farewell party https://msun.ru/en/fleet_en_nadezhda	
End of PAME II-2018 Meeting at 17:00		



Annex IV: PAME II-2018: List of Documents

**Admiral Nevelskoy Maritime State University
Vladivostok, the Russian Federation
1-4 October 2018**

ACCESS TO MEETING DOCUMENTS:

Access to all relevant documents and background information is on the PAME password protected area at: www.pame.is and login information will be 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 1st of October

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

Breakout room: A (ca. 25-30 persons)	Breakout room: B (ca. 20-25 persons)	Breakout room: C (ca. 25-30 persons)
<p><u>10:00/10:00-17:00 (whole day)</u> <i>Shipping Experts Group (SEG)</i> The agenda has been posted</p>	<p><u>09:00-11:00</u> <i>Resource Exploration and Development Expert Group (REDEG)</i> The agenda will be the items under Agenda Item 7.</p>	<p><u>09:00-15:00</u> <i>Marine Litter Side Event - Seminar</i></p>
	<p><u>11:00-13:00</u> <i>Ecosystem Approach Expert Group</i> The agenda will be the items under Agenda Item 8.</p>	
	<p><u>13:00-15:00</u> <i>MPA Expert Group</i> The agenda has been posted</p>	
	<p><u>15:00-17:00</u> <i>Marine Litter Expert Group</i> The agenda will be the items under Agenda Item 9.</p>	

Agenda items for the pre-meeting sessions as relevant

MPA pre-meeting:

- ✓ MPA EG 1 Oct pre-meeting agenda
- ✓ MPA Networks Action Table by USA (version 28 Aug)

SEG-pre-meeting:

- ✓ SEG pre-meeting agenda
 - Draft project proposal on BCM mitigation measures for shipping in the Arctic by ICE (version 4 Sep)
 - Draft project proposal on the development of Arctic Shipping Trend Analysis Report (version 4 Sep)
 - Communication on black carbon-Response from EGBCM
 - SEG-report from IMO intersessional ISWG-AP-1 meeting by Norway
 - WWF Proposal to PAME to develop grey water discharge measures for the Arctic
 - White Paper-Low Impact Shipping Corridors

Background documents:

- MEPC 73-INF.28: Shipborne grey water production in the Canadian Arctic estimates and forecasts (WWF)
- MEPC 73-8-2: Draft action plan to address marine plastic litter from ships. Submission from a number of countries on an action plan for marine plastic litter. (there is a section on the need for new grey water regulations to reduce microplastics from grey water discharges, this could also be included in the marine litter agenda item)

Marine Litter Side Event -Seminar:

- ✓ Marine Litter seminar 1 Oct-program
- ✓ Marine Litter seminar 1 Oct-List of participants

AGENDA 2 – Introduction and Adoption of the Agenda

Draft meeting agenda with timeline (version 26 Sep)

AGENDA 3 – Information from the Chair and Secretariat

Agenda 3.6:

- ✓ Links between national and international meteorological work and PAME. Discussion paper submitted by Finland
- ✓ Annotation to agenda item 3.6

Background documents:

PAME I-2018 RoDs

SAO Report, March 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

Report to Ministers of the Task Force on Arctic Marine Cooperation (TFAMC) - (May 2017)

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

Agenda 4.1:

- ✓ Lol 4th MPA workshop 28 June 2018
- ✓ 4th MPA Workshop 27-29 Nov 2018 annotated agenda revised draft 26 Sep
- ✓ 4th MPA Workshop logistics and accommodation

Agenda 4.2:

Background Document:

MPA Networks Action Table by USA (version 28 Aug)

Agenda 4.3:

- ✓ Draft project proposal on Factsheet series on Arctic climate change impacts
- ✓ Annotation to agenda item 4.3

Agenda 4.4: PAME and CAFF Secretariat communication with UNEP-WCMC on Arctic PA Indicator Report

Agenda 4.5:

- ✓ Overview of recommendation related to PAs and actions, working document by PAME and CAFF Secretariats
- ✓ An excel database compiled by the CAFF and PAME Secretariats
- ✓ Annotation to agenda item 4.5

Background documents:

- ✓ 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)
- ✓ 1st MPA Workshop Report
- ✓ 2nd MPA workshop Report

- ✓ 3rd MPA Workshop Report

AGENDA 5 – Protection from Invasive Species

- ✓ Agenda 5.1: Memo summarizing current status on the work of the ARIAS Coordinating Group
- ✓ Agenda 5.1(a): ARIAS CAFF/PAME Implementation Coordinating Group (ICG) ToR for review and approval

Note: his ToR has also been sent to CAFF for their review/approval so National representatives to PAME should take care to *coordinate* their national reviews with their CAFF counterparts

Background documents:

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

AGENDA 6 - Arctic Marine Shipping Assessment follow-up activities

Agenda 6.1: Linking with International Organizations

- ✓ Agenda 6.1(a): Arctic Shipping Best Practice Information Forum (Summary & Next Steps)

Background information:

- ✓ *Forum Web-portal* – www.arcticshippingforum.is
- ✓ *Arctic Shipping Best Practice Information Forum Terms of Reference*
- ✓ *Forum Revised Methods of Operation*
- ✓ *Revised Eligibility Criteria For Information to be Posted to the Forum's Website*

Agenda 6.2: IMO Measures for Arctic Shipping

- ✓ Agenda 6.2(a)(ii): HFO Phase IV(b) Indigenous Use Project-Update
- ✓ Agenda 6.2(a)(iii): HFO phase IV(d) Alternative fuels for use by ships in the Arctic by Norway
- ✓ Agenda 6.2(a) Background documents:
 - MEPC 73-9-1 Proposed Methodology to Analyze Effects to Arctic Communities and Industries of a Ban on Heavy Fuel Oil
 - MEPC 73-9-2 - Comments on document MEPC 73/9 on "Report of the informal correspondence group on the determination of an appropriate impact assessment methodology", Submitted by Finland
 - MEPC 73-9- Report of the informal Correspondence Group on the determination of an appropriate impact assessment methodology, Submitted by Canada and the Russian Federation
 - MEPC 73-9-X NGO comment paper on an HFO impact assessment methodology for an HFO ban in the Arctic

- New research from CE Delft: Residuals bunker fuel ban in the IMO Arctic waters: an assessment of costs and benefits (summary in the NGO MEPC submission)
- New Research from WWF: Phasing Out the Use and Carriage for Use of Heavy Fuel Oil in the Canadian Arctic: Impacts to Northern Communities (summary in the NGO MEPC submission)
- ✓ Agenda 6.2(b)(ii):
 - Proposal to facilitate a harmonised implementation of the Polar Code by Norway
 - Example of the Norwegian interpretations to parts of the Polar Code
- ✓ Agenda 6.2(c)(i):
 - Proposal to Develop a Memorandum of Understanding with the Arctic Regional Hydrographic Commission, by the USA and Canada
 - Annotation to agenda item 6.2(c)(i)
 - Background documents:
 - Letter to Canada and USA on MoU PAME
 - Arctic Hydrographic Adequacy-update
 - 8th conference of ARCHC-Bulletin Report

Agenda 6.4: Survey of Arctic Indigenous Marine Use

Agenda 6.5: Addressing Impacts on Marine Mammals

- ✓ Agenda 6.5(a):
 - Arctic Underwater Noise: State of Knowledge Report (draft 31 Aug 2018)
 - Annotation to agenda item 6.5(a)

Background documents:

- ✓ PAME I-2018: Agenda 6.7(a) proposal on State of Knowledge on Underwater Noise in the Arctic, by Canada and WWF
- ✓ MEPC 73-18-4 - Furthering international efforts to reduce the adverse impacts of underwater noise from commercial ships, submitted by Canada and New Zealand
- ✓ MEPC 73-INF.23 - Scientific support for underwater noise effects on marine species and the importance of mitigation, submitted by Canada
- ✓ MEPC 73-INF.26 - Information related to OSPAR Commission's work on underwater noise

Agenda 6.6: Addressing the Infrastructure Deficit

Agenda 6.7: Arctic Marine Traffic Systems

- ✓ Agenda 6.7(a)-Background information:

- [ASTD Workshop, September 2018 - Agenda](#)
- ASTD Workshop – Presentations:
 - [Jon Arve – Day 1](#)
 - [Jon Arve – Day 2](#)
 - [Stian – Day 1](#)
 - [Hjalti – Day 1](#)
 - [Hjalti - Day 2](#)
 - [Hjalti – Polar Code Ship flag analysis](#)

Background documents:

- Cooperative Framework among the Arctic States Regarding Arctic Ship Traffic Data Sharing.
- ASTD expert contacts Mar 2018
- ASTD Level 3 access and fee structure, Final
- ✓ **Agenda 6.7(b):** Status on the joint PAME/EPPR Compendium of Arctic Ship Accidents (CASA) project.

Background documents: Following 11 background documents are for member states to review:

- The data provided by member governments (Norway, US, Canada, Iceland, Sweden, Denmark). *(7 documents)*
 Note: Finland did not have any accidents that met criteria for reporting. Russia did not submit any data.
- The IMO and EMSA data sets. *(2 documents)*
- The Master Data sheet which combines the data provided by all member governments into one spreadsheet.
- Annex to the paper submitted by the US, which contains an analysis of the data submitted by member governments.

Agenda 6.8: Engagement of Observer States PAME’s shipping-related activities

Agenda 6.8(a): Developing an Approach/Framework for More Systematically Engaging with Observers on PAME’s Shipping-Related Work. Joint submission by USA, Italy, Poland and Republic of Korea.

Annotation to agenda 6.8(a)

Annex to agenda item 6.8(a)

- Responses from Korea Maritime Institute
- Responses from Italy
- Responses from Poland
- Responses from the Netherlands
- Responses from University of the Arctic

- Responses from IASC
- Responses from WMO

Agenda 6.9: Shipping-related work and preparations for the 2019 Ministerial

Agenda 6.9(c):

- ✓ Draft project proposal on BCM mitigation measures for shipping in the Arctic by ICE (version 4 Sep)
- ✓ Draft project proposal on the development of Arctic Shipping Trend Analysis Report (version 4 Sep)
- ✓ EPPR 2018 PAME Working Group Meeting Risk Assessment Information Document
- ✓ Placeholders for 2 potential new projects
- ✓ WWF Proposal to PAME to develop grey water discharge measures for the Arctic
- ✓ Placeholder for a possible new fuel project in the Arctic

Background documents: (Agenda 6):

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

AGENDA 7 – Arctic Offshore Resource Exploration and Development

Agenda 7.1(a)

- ✓ MEMA PART II Report: Findings for policy Makers, September 4 Draft clean
- ✓ MEMA PART II Report: Findings for policy Makers, September 4 Draft track changes

Background documents:

- ✓ Meaningful Engagement of Indigenous Peoples and Communities in Marine Activities (MEMA) Part I Report.
- ✓ MEMA Workshop Report.

Agenda 7.3: Arctic EIA State of Play September 2018

Agenda 7.4: Two Preliminary Concept Papers

- ✓ Guidance on Non-Emergency Operations, Monitoring, and Decommissioning/Site Clearance
- ✓ Guidance on Engagement of Indigenous Peoples in Offshore Oil and Gas Activities

Annotation to agenda 7.4

Agenda 7.4: Information document on current Arctic Offshore Activities 2018

AGENDA ITEM 8 – Ecosystem-based Approach to Management

Agenda 8.1 and 8.4: EA Progress Report and proposed 2019-2021 work plan items

Agenda 8.2: PAME Joint EA Guidelines draft 24 Sep 2018

Agenda 8.3: Interim Report of the ICES/PICES/PAME Working Group for Integrated Ecosystem Assessment of the Central Arctic Ocean (WGICA)

Agenda 8.4: Draft Prospectus EA Conference 2019

Background documents:

- ✓ 6th 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.

AGENDA ITEM 9 – Marine Litter, including Microplastics

Agenda 9(a): Marine Litter Workshop Summary Report

Agenda 9(b):

- ✓ 2nd draft outline of the Desktop Study on Marine Litter including Microplastics in the Arctic (version 20 Sep 2018): CLEAN
- ✓ 2nd draft outline of the Desktop Study on Marine Litter including Microplastics in the Arctic (version 20 Sep 2018): TRACK CHANGES
- ✓ Desktop Study *Section III: Literature Review* Tables 2nd Draft with refs (Version 20 Sep 2018)
- ✓ Reviewer comments to Draft 1
- ✓ Annotation to agenda 9(b)

Agenda 9(c): Communication and outreach

Agenda 9(d): Draft project plan outline of ML regional action plan (version 4 Sep)

Agenda 9(d): (*for information*) AMAP work on marine microplastics and litter

Background documents

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

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

Annotation to agenda 10: 2019 Ministerial preparations and input

Agenda 10.1: Process and timeline to develop the PAME work plan 2019-2021 (short and long version)

Agenda 10.1: Outline for new projects for inclusion into PAMEs Work Plan

- ✓ Agenda 10.1(a): Draft outline of PAME Work Plan 2019-2021-working document long version

- ✓ Agenda 10.1(b): AMSP implementation matrix working document

Agenda 10.2:

- ✓ Process and timeline to develop input to the 2019 SAO Report to Ministers
- ✓ Draft list of potential PAME Ministerial Deliverables working document

Background documents

AMSP Implementation Progress Report 2015-2017

AMSP 2015-2025

AMSP Implementation Plan

Additional Information

PAME II-2018 logistics and visa information

PAME II-2018 hotel list

List of nominated experts (version Sep 2018)

List of Participants

List of Documents

Official Letter of Invitation

Map of meeting location



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