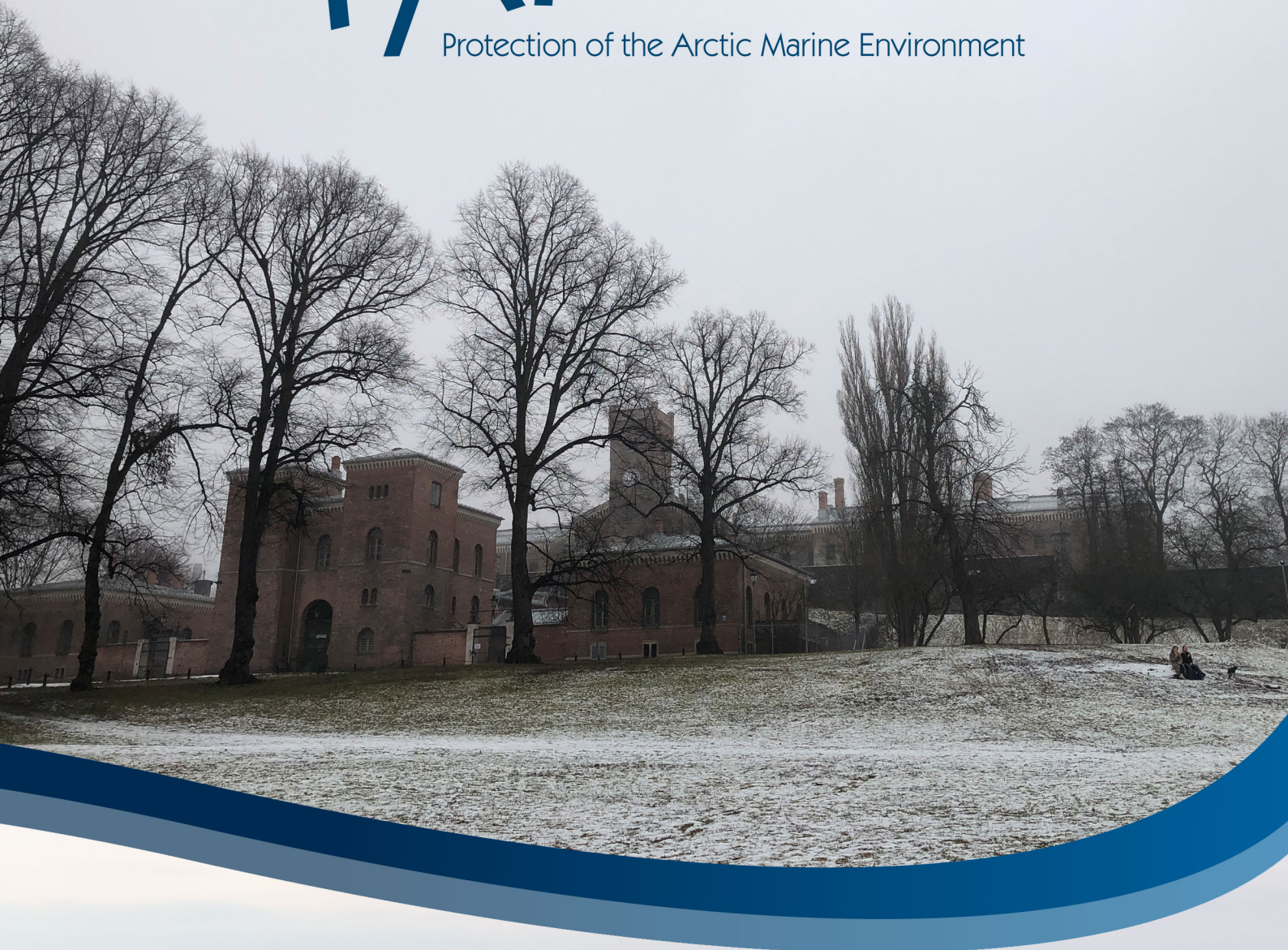




Protection of the Arctic Marine Environment



PAME I-2020

WORKING GROUP MEETING REPORT

5-7 FEBRUARY - OSLO, NORWAY



ARCTIC COUNCIL

PAME I-2020 MEETING REPORT

5-7 February 2020 – Norwegian Environment Agency, Oslo, Norway

Content:

- Meeting summary
 - Annex I – List of Participants
 - Annex II – Meeting Agenda
 - Annex III – List of Documents
 - Annex IV – Records of Decisions



MEETING SUMMARY

PAME's 1st biannual meeting of 2020 (PAME I-2020) was held at the Norwegian Environment Agency in Oslo, Norway from 5-7 February to report on and discuss activities and projects in the PAME 2019-2021 Work Plan ([here](#)).

Tuesday 4 February was dedicated to pre-meetings of PAME's five thematic expert groups (shipping, marine protected areas, ecosystem approach, marine litter, and resource exploration and development). Two workshops were held on 3 February, back-to-back with the PAME I-2020 Meeting: one on the Arctic Marine Tourism project and one on the development of the Regional Action Plan on Marine Litter in the Arctic, which included contributions from marine litter experts and an AMAP representative.

Marine Protected Areas (MPAs): Sweden presented on preliminary findings on the Modelling Arctic oceanographic connectivity to further develop PAME's MPA work. Sweden will submit a draft final report for PAME II-2020. Canada distributed the *workshop report 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"*, 19-21 March 2019, in Cambridge Bay, Nunavut, Canada. Both Sweden and Canada will provide potential ways to integrate the information from these two activities into the expansion and refinement of the MPA Network Toolbox and other PAME work for discussion at PAME II-2020.

Finland and USA gave an update on the project *developing Factsheets related to MPAs and Indigenous Peoples' Lives Under Change*. The 1st Factsheet draft outline and a proposed timeline were discussed, and the project reference group will continue developing both Factsheets. Additional representatives were welcomed to the group.

WWF presented on its *Pan-Arctic Marine Protected Areas Network project* which has potential synergies with PAME's work on MPA

Networks, in particular on connectivity. Furthermore, PAME noted progress by the PAME and CAFF Secretariats' cooperation with the UN Environment Programme World Conservation Monitoring Centre to update the Arctic Protected Areas Indicator Report, noting the timeline to finalize the update, and reminded its members to submit national MPA updates as soon as possible to the PAME and CAFF Secretariats.

Invasive Species: PAME recognized the need to further explore ways and capacity in which PAME can become more engaged in the joint PAME/CAFF effort to implement the Arctic Invasive Alien Species Strategy and Action Plan (known as ARIAS) as it relates to marine actions. PAME members were encouraged to coordinate with their CAFF counterparts to explore ways forward for a possible project on this topic for inclusion into the PAME 2021-2023 Work Plan.

Arctic Marine Shipping: PAME and its Shipping Expert Group continue to advance several projects and initiatives to promote safe and sustainable navigation in the Arctic.

The 4th annual Arctic Shipping Best Practice Information Forum meeting will take place 11-12 May 2020 at the International Maritime Organization (IMO) Headquarters in London, UK. Iceland currently chairs the Forum. PAME's Forum Coordinating Committee will plan the meeting and report on its outcomes to PAME II-2020.

PAME approved signing of a final PAME-Arctic Regional Hydrographic Commission (ARHC) Memorandum of Understanding (MoU) by the PAME Chair or Vice-Chair in coordination with the ARHC. The SAOs approved the MoU in November 2019.

PAME has invited IMO and the International Council for the Exploration of the Sea (ICES) to submit information on topics and

developments of relevance to PAMEs shipping-related work. ICES has been invited to present at PAME II-2020.

Finland and Iceland will submit a revised project proposal to PAME on the project titled *“Black carbon emissions concerning shipping activity in the Arctic and technology development for their reduction”*. PAME invited its members to nominate subject matter experts by 1 March to participate in a correspondence group established to advance the project.

Norway will submit a revised template and a survey to collect information on how Arctic and Observer States interpret the Polar Code. PAME Members are invited to submit information accordingly by 1 May. Norway will provide a status update at PAME II-2020. PAME appreciates the decision by the Paris Port State Control MOU (Paris MOU) to organize an Inspection Campaign on the Polar Code in 2022 and encourages Arctic States and Observer States that are members of the Paris MOU to cooperate with and actively support the campaign. PAME invites the Kingdom of Denmark, the Russian Federation, and Finland to provide an update to PAME II-2020 on developments.

PAME appreciated Norway’s update on progress concerning its *“New Low Sulphur Fuels, Fate and Behavior in Cold Water Conditions”* project and invited PAME members to participate in the project and nominate experts by 1 March to participate in an expert group in support of the project. PAME acknowledged EPPR’s approval of the joint PAME-EPPR project. PAME also notes Norway’s request for financial contributions to the project.

PAME noted its important contribution to the 21-23 October 2019 “Ministerial Conference

on Fishing Vessel Safety and IUU Fishing” and encourages Arctic States and Observer States that have not yet done so to consider ratifying the 2012 Cape Town Agreement for the safety of fishing vessels.

PAME invited its members to submit by 1 June any information on site-specific guidelines for marine-based tourism in the Arctic region for the Arctic Marine Tourism Project. The project co-leads, Canada, Iceland, and United Kingdom will provide an update to PAME II-2020. PAME received an update on the draft report *“Vessel Traffic Trends in the Arctic and Overlap with Important Marine Mammal Areas”* and invited its members to identify options for future work on developing underwater noise maps for Arctic shipping:

PAME invited WWF to submit to PAME II-2020 options for a possible PAME project on grey water discharges by vessels in the Arctic that could be co-sponsored by one or more Arctic States/PPs and approved intersessionally or as part of PAME’s 2021-2023 Work Plan. PAME also invites a presentation at PAME II-2020 by an Arctic Indigenous community representative on vessel grey water discharges and their impacts.

PAME invited USA and Russia to circulate for comment as soon as practicable proposed draft MARPOL¹ amendments language that would implement a Regional Port Waste Reception Facilities regime in the Arctic region. USA and Russia were also invited to make a presentation at PAME II-2020 on IMO’s Marine Environment Protection Committee (MEPC) Arctic Port Reception Facilities agenda item. The Arctic Ship Traffic Data (ASTD) project co-leads, USA and Norway, were encouraged to continue the ASTD System developments, and to continue raising awareness of the System.

¹ International Convention for the Prevention of Pollution from Ships (MARPOL)

PAME invited comments on the draft Arctic Shipping Status Report (ASSR) prior to posting on the PAME website by 24 March. PAME invited the USA to update the Compendium of Arctic Ship Accident (CASA) project data spreadsheet with information recently received from Canada, Norway, and Iceland, and to submit the updated data spreadsheet to PAME II-2020.

PAME invited the project co-leads (USA, Poland, Republic of Korea, and the Northern Forum) to develop and distribute a survey for Observers for strengthening Observer engagement with PAME's shipping-related activities. PAME also invited the project co-leads to submit to PAME II-2020 a draft "PAME 101 for Observers" document and a project status report.

PAME is working on updating the 2009 Arctic Marine Shipping Assessment (AMSA) Report Recommendations (the AMSA refresh project). PAME instructed the project co-leads (Canada and USA) to submit to PAME II-2020 a status report and a final draft revision for PAME approval and submission to SAOs.

Arctic Offshore Resource Exploration and Development: PAME noted the drafts of outreach brochures and posters that contain the findings of the *Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities (MEMA)* Part II Report, including good practices and key lessons, with links to the MEMA database and the MEMA Part II Report. The Secretariat will finalize the brochure and poster and will circulate at relevant events and to relevant entities. PAME requested high-quality Arctic pictures of people specifically for this project, as well as for other use.

PAME noted an update on the plan to develop a Reference Guide based on the findings of the MEMA database and MEMA Part II Report. The Reference Guide will include: 1) Factors that

are important to achieve meaningful engagement, 2) Good practices for meaningful engagement, and 3) Key lessons. A draft Reference Guide will be brought forward to the PAME II-2020 meeting.

PAME noted the work to collect information on current oil and gas activities and relevant post-2010 legislation, regulations and practices. The Project lead requested outstanding responses to the Survey. The Kingdom of Denmark, Iceland, and Norway have committed to providing input, and the Russian Federation was requested to respond. All input is requested by June 2020. A draft white paper will be prepared based on all submissions and brought forward to the PAME II-2020 meeting.

Ecosystem Approach to Management (EA):

PAME welcomed the initial planning of a 7th EA workshop in 2020 in Nome, Alaska. The date will be 29 September – 1 October, following the PAME II-2020 meeting. A planning committee has been formed comprised of members from the EA Expert Group (EA-EG), PPs and other Indigenous organizations (Saami Council, ICC, and the Bering Sea Elders Group), and Observers. PAME welcomed the plan to prepare the 'Report on development in defining or setting Ecological Objectives' with two main parts: concepts related to ecological objectives, and experiences gained from practical application of ecological objectives. An extended outline has been prepared by the EA co-leads, and a first draft will be prepared with input from PAME members and the EA-EG to PAME II-2020.

PAME welcomed the information on the work of the joint ICES/PICES²/PAME Working Group for Integrated Ecosystem Assessment of the Central Arctic Ocean (WGICA) and noted that the first Integrated Ecosystem Assessment (IEA) report concerning the Central Arctic Ocean (CAO) ecosystem will be shared with PAME prior to being published. PAME also

² The North Pacific Marine Science Organization

notes the plan to produce a second version IEA report with more emphasis on impacts of human activities on the CAO ecosystem to be completed in 2021.

PAME welcomed efforts to strengthen the communication between the EA-EG co-chairs and the relevant Arctic Council Working Group members to: better coordinate our work plans and efforts towards Integrated Ecosystem Assessments; to inform about progress/status of respective work; and to seek inputs, as relevant. Communication efforts will include distributing the EA-EG Progress Report annually, inviting Working Group members to join workshop and conference planning committees, and inviting Working Group members to contribute to development of the next (2021-2023) work plan.

Development of a Regional Action Plan on Marine Litter in the Arctic (ML-RAP): PAME welcomed the 1st draft of the Regional Action Plan on Marine Litter in the Arctic (ML-RAP) and noted a timeline to further develop the ML-RAP.

PAME also noted with appreciation the marine litter communication and outreach activities implemented by its Secretariat, in particular the launching of GPS tracking capsule "message in a bottle" and invited those interested in taking part in launching additional capsules to contact the PAME Secretariat for further details. PAME welcomes the initial expressions of interest by the Netherlands, Finland, and the Northern Forum.

Reporting on implementation progress on the Arctic Marine Strategic Plan: PAME welcomed the proposed timeline and next steps in developing the 3rd Arctic Marine Strategic Plan Implementation Report as submitted by the Secretariat, noting in particular the importance of engagement with other Arctic Council working groups and the planned 1/2 day workshop to be convened jointly with CAFF, back-to-back with the March 2020 SAO meeting.

Collaboration and coordination with other working groups: PAME works towards strengthening the coordination and collaboration with other working groups (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 Heads of Delegations (HoDs) for coordination purposes, and shares work in progress to seek input, as relevant. PAME liaises with CAFF on MPA and invasive species work. PAME continues to coordinate its work with EPPR, noting in particular the CASA project and the *"New Low Sulphur Fuels, Fate and Behavior in Cold Water Conditions"*. 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 RAP-ML, and access to the ASTD System is open for the WGs as well. AMAP and EPPR attended the PAME I-2020 meeting, where EPPR also presented on its work.

Observers at the PAME I-2020 Working Group Meeting: PAME continues to strengthen its engagement with Observers in PAME's shipping-related activities by inviting one representative for each meeting to give a presentation on its Arctic interest and activities. The Netherlands did so at this meeting and India has been invited to give such a presentation at PAME II-2020. PAME I-2020 was attended by 84 participants, of which 28 were Observers, 11 representing Observer States: Germany, The Netherlands, Japan, India, Italy, Singapore, Republic of Korea, United Kingdom, and Spain, and 17 representing Observer Organizations: WWF, GRID-Arendal, Oceana, OSPAR, Arctic Institute of North America, CCU, UNEP, EU, and IMO.

PAME Next Meeting: The next PAME meeting (PAME II-2020) will take place 22-24 September 2020 in Anchorage, Alaska,

ANNEX I: List of Participants

	First name	Family name	Department / Ministry	Country / Organization	E-mail
PAME Chair and Secretariat					
1	Elizabeth	McLanahan	NOAA	USA	Elizabeth.McLanahan@noaa.gov
2	Soffía	Guðmundsdóttir	PAME Secretariat - Executive Secretary	Iceland	pame@pame.is
3	Hjalti	Hreinsson	PAME Secretariat	Iceland	hjalti@pame.is
4	Olga	Pálsdóttir	PAME Secretariat	Iceland	olga@pame.is
Canada					
5	Maya	Gold	Fisheries and Oceans Canada	Canada	maya.gold@dfo-mpo.gc.ca
6	Drummond	Fraser	Transport Canada	Canada	drummond.fraser@tc.gc.ca
7	Caroline	Gravel	Transport Canada	Canada	caroline.gravel@tc.gc.ca
8	Dominique	Jolicoeur	Transport Canada	Canada	dominique.jolicoeur@tc.gc.ca
9	Maureen	Copley	Crown - Indigenous Relations and Northern Affairs Canada	Canada	maureen.copley@canada.ca
Kingdom of Denmark					
10	Charlotte	Mogensen	Ministry of Environment and Food	Denmark	chbmo@mfvm.dk
11	Andreas	Haugaard Christensen	Ministry of Nature, Environment and Research	Greenland	anhc@nanog.gl
12	Julie	Grauslund	Danish Maritime Authority	Denmark	jgg@dma.dk
13	Anders	Mosbech	Aarhus University, Arctic Environment	Denmark - Greenland	amo@bios.au.dk
14	Karen	Arleth	Ministry of Environment and Nature	Greenland	knar@nanog.gl
Finland					
15	Jan	Ekebon	Ministry of the Environment Finland	Finland	jan.ekebon@ym.fi
16	Anita	Mäkinen	Finnish Transport and Communications Agency	Finland	anita.makinen@traficom.fi
17	Harri	Kuosa	Finnish Environment Institute	Finland	harri.kuosa@ymparisto.fi
Iceland					
18	Sigurrós	Friðriksdóttir	Environment Agency	Iceland	sigurros@ust.is
19	Sverrir	Konráðsson	Icelandic Transport Authority	Iceland	sverrir@samgongustofa.is
20	Jón	Bernódusson	Icelandic Transport Authority	Iceland	jon.bernodusson@samgongustofa.is
Norway					
21	Fredrik Juell	Theisen	Ministry of Climate and Environment	Norway	fjt@kld.dep.no
22	Hein Rune	Skjoldal	Institute of Marine Research	Norway	hein.rune.skjoldal@hi.no
23	Lise	Langård	Norwegian Environment Agency	Norway	lise.langard@miljodir.no

24	Anne	Berteig	Ministry of Climate and Environment	Norway	anne.berteig@kld.dep.no
25	Siv Christin	Gaalaas	Ministry of trade, industry and fisheries	Norway	scg@nfd.dep.no
26	Lis	Jorgensen, Lindal	Institute of Marine Research	Norway	lis.lindal.joergensen@hi.no
27	Andrea	Skarstein	NMA	Norway	ansk@sdir.no
28	Cecilie	von Quillfeldt	Norwegian Polar Institute	Norway	cecilie.quillfeldt@npolar.no
29	Jon-Arve	Røyset	Norwegian Coastal Administration	Norway	jon-arve.royset@kystverket.no
30	Alf Håkon	Hoel	UiT - The Arctic University of Norway/Institute of Marine Research	Norway	alf.hakon.hoel@uit.no
Russian Federation					
31	Natalia	Kutaeva	FBSI "Marine Rescue Service" (MRS), Ministry of Transport of the Russian Federation	Russian Federation	kutaevang@morspas.com
32	Dmitrii	Iudin	Administration of the Western Arctic Seaports	Russian Federation	psco-ydv@mail.ru
33	Vladimir	Kuzmin	Administration of the Baltic Sea Ports	Russian Federation	Vladimir.E.Kuzmin@gmail.com
Sweden					
34	Anna	Karlsson	Swedish Agency for Marine and Water Management	Sweden	anna.karlsson@havochvatten.se
35	Göran	Broström	University of Gothenburg	Sweden	goran.brostrom@marine.gu.se
USA					
36	Laura	Strickler	NOAA	USA	laura.strickler@noaa.gov
37	Peter	Oppenheimer	NOAA	USA	peter.oppenheimer@noaa.gov
38	Elizabeth	Logerwell	NOAA Fisheries	USA	libby.logerwell@noaa.gov
39	Dennis	Thurston	Bureau of Ocean Energy Management US Department of the Interior	USA	dennis.thurston@boem.gov
40	Alyson	Azzara	Maritime Administration	USA	alyson.azzara@dot.gov
41	Kimberly	Chesteen	U S Coast Guard	USA	kimberly.b.chesteen@uscg.mil
42	Victoria (Tori)	Luu	NOAA Office of International Affairs	USA	victoria.luu@princeton.edu
43	Galia	Kaplan	U.S. Coast Guard - Office of Port and Facility Compliance	USA	Galia.Kaplan@uscg.mil
Permanent Participants					
44	Nicole	Kanayurak	Inuit Circumpolar Council	USA	nicole.kanayurak@gmail.com
45	Frances	Olemaun	Inuit Circumpolar Council	USA	frances.olemaun@north-slope.org
46	Chantae	Kochuten	Aleut International Association	United States	ckochuten@apicda.com
Observers					
47	Martin	Sommerkorn	WWF Global Arctic Programme	Norway	msommerkorn@wwf.no
48	Dieter	Piepenburg	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Germany	Dieter.Piepenburg@awi.de
49	Odd Jarl	Borch	UArctic/Nord university	Norway	odd.j.borch@nord.no
50	Luca	Fiorani	ENEA	Italy	luca.fiorani@enea.it
51	Andrew	Dumbrille	WWF-Canada	Canada	adumbrille@wwfcanada.org

52	Tiina	Kurvits	GRID-Arendal	Canada	tiina.kurvits@grida.no
53	Heike	Herata	German Environment Agency	Germany	heike.herata@uba.de
54	Ben	Enticknap	Oceana	USA	benticknap@oceana.org
55	Wouter Jan	Strietman	Wageningen Economic Research	The Netherlands	Wouterjan.strietman@wur.nl
56	Philip	Stamp	OSPAR Commission	UK	philip.stamp@ospar.org
57	Maribeth	Murray	Arctic Institute of North America	Canada	murraym@ucalgary.ca
58	Matthew	Ayre	Arctic Institute of North America	Canada	matthew.ayre@ucalgary.ca
59	Christine	Kelly	Foreign & Commonwealth Office	United Kingdom	christine.kelly@fco.gov.uk
60	Stefano	Aliani	CNR ISMAR SP	Italy	stefano.aliani@ismar.cnr.it
61	Tero	Jokilehto	World Meteorological Organization (WMO)	Switzerland	tjokilehto@wmo.int
62	Ed	White	CCU	USA	ewhite@gci.net
63	Piotr	Graczyk	NORCE Norwegian Research Centre	Poland	pigr@norcerearch.no
64	Maria Sagrario	Arrieta Algarra	D.G. Sustainability of the Coast and the Sea. Ministry for the Ecological Transition	Spain	sarrieta@miteco.es
65	Natsuhiko	Otsuka	Hokkaido University Arctic Research center	Japan	natsuhiko.otsuka@arc.hokudai.ac.jp
66	Pravakar	Mishra	National Centre for Coastal Research / Ministry of Earth Sciences / Government of India	India	mishra@nccr.gov.in
67	Zi Hua Samuel	Soo	Maritime and Port Authority of Singapore	Singapore	samuel_soo@mpa.gov.sg
68	Sarah	Bobbe	CCU	USA	sbobbe@oceanconservancy.org
69	Christine	Kelly	Foreign & Commonwealth Office	United Kingdom	christine.kelly@fco.gov.uk
70	Pedro	Holteng	Netherlands Embassy in Norway	The Netherlands	pedro.holteng@minbuza.nl
71	James	Gamble	Northern Forum	USA	jgamble@institutenorth.org
72	Minsu	Kim	Korea Maritime Institute	Korea	guan72@kmi.re.kr
73	Tina	Schoolmeester	UNEP	Norway	tina.schoolmeester@grida.no
74	Georg	Hanke	European Commission Joint Research Centre	EU	georg.hanke@ec.europa.eu
75	Takehiro	Nakamura	United Nations Environment Programme	Kenya	takehrio.nakamura@unep.org

Arctic Council Secretariat-Icelandic Chairmanship-AC Working Groups

76	Magnús	Jóhannesson	AC Icelandic Chairmanship/Ministry for Foreign Affairs	Iceland	magnus.johannesson@utn.is
77	Ole Kristian	Bjerkemo	EPPR working group	Norway	ole-kristian.bjerkemo@kystverket.no
78	Jan Rene	Larsen	AMAP	Denmark	jan.rene.larsen@amap.no
79	Nina	Ågren	Arctic Council Secretariat	Norway	nina.agren@arctic-council.org

Others - Invited Experts

80	Michael	Kingston	Michael Kingston Associates - IMO Consultant	Ireland	michaelkingston@michaelkingston.org
----	---------	----------	--	---------	--

ANNEX II: MEETING AGENDA



PAME I-2020 Working Group Meeting

Norwegian Environment Agency, Oslo

3-7 February 2020

Meeting logistics and Agenda Items

The next PAME Working Group Meeting (PAME I-2020) and a number of associated meetings will be held during the week of 3-7 February 2020 at the conference center at the office of the Norwegian Environment Agency in Oslo ([here](#)). Below are details on the meeting schedule during this week:

Monday 3 Feb: 2 workshops where participation is by invitation only

- **09:00- 17:00** Marine Litter expert group workshop (details to be confirmed)
- **09:00-17:00** Marine Tourism Workshop in support of the marine tourism project (details to be confirmed)

Tuesday 4 Feb: Pre-meetings on PAMEs thematic topics

- **09:00- 17:00** The Shipping Expert Group
- **09:00- 16:00** back-to-back meetings (2 hours each) for the Resource Exploration and Development Expert Group (REDEG), Ecosystem Approach Expert Group and the MPA Expert Group. The Marine Litter Expert Group will meet for one hour.
- **16:00-17:00** PAME Member States and PP's HoDs-only meeting to discuss housekeeping issues.

Wednesday 5 Feb-Friday 7 feb: PAME I-2020 Plenary Working Group Meeting

Leads on respective activities are requested to prepare for this meeting in accordance with the PAME Work Plan 2019-2021 and Records of Decisions from the PAME II-2019 meeting. PAME delegations are invited to include shipping, EA, MPA, Resource Exploration and Development, Marine Litter and other experts in their delegations to the PAME I-2020 meeting.

Documents requiring decisions from this meeting should be distributed 30 days in advance, or by 8th of January 2020 in accordance with the Arctic Council's Working Groups Common Operating Guidelines.

PAME I-2020 Main Agenda Items: 5-7 February 2020

- 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:** 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 Approach to Management
 - Item 9:** Arctic Marine pollution:
 - 9.1: Regional Action Plan on Marine Litter in the Arctic
 - 9.2: Development of AMSP Implementation Status Report 2019-2021
 - Item 10:** Summary of Meeting Decisions and Follow up Actions (Chair & Secretariat)
 - Item 11:** Any other business and closing of the Meeting
- End of PAME I-2020 Meeting at 15:00 (tentative)**

PAME I-2020: Pre-Meetings

TUESDAY, 4 February	
The pre-meetings will take place at the facilities of the Norwegian Environment Agency. Following is a list of the times of the pre-meetings:	
Nordmarka Meeting Room	Østmarka Meeting Room
<u>09:00-17:00 (whole day)</u> <i>Shipping Experts Group (SEG)</i> Agenda to be posted.	<u>09:00-11:00: Resource Exploration and Development Expert Group (REDEG)</u> The agenda will be the items under Agenda Item 7.
	<u>11:00-13:00: Ecosystem Approach Expert Group</u> The agenda will be the items under Agenda Item 8.
	<u>13:00-15:00: MPA Expert Group</u> The agenda will be the items under Agenda Item 4.
	<u>15:00-16:00: Marine Litter Expert Group</u> The agenda will be the items under Agenda Item 9.
	<u>16:00-17:00: PAME Member States and PPs HoDs only meeting.</u>

PAME I-2020 Working Group Meeting 5-7 Feb

Agenda and Background documents

Background:

PAME is the focal point of the Arctic Council's activities related to the protection and sustainable use of the Arctic marine environment and provides a unique forum for collaboration on a wide range of activities on the protection and sustainable use of the Arctic marine environment. Its mandate is to:

address marine policy measures and other measures related to the conservation and sustainable use of the Arctic marine and coastal environment in response to environmental change from both land and sea-based activities, including non-emergency pollution prevention control measures such as coordinated strategic plans as well as developing programs, assessments and guidelines, all of which aim to complement or supplement efforts and existing arrangements for the protection and sustainable development of the Arctic marine environment.

Details on projects can be found in [PAME's 2019-2021 Work Plan](#) – and on the [PAME website](#).

All PAME I-2020 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.

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

WEDNESDAY, 5 February		
Timeline	Agenda items	Note/Leads
08:30-09:00	Registration of PAME meeting participants	
09:00-11:00	Item 1: Opening of the Meeting <ul style="list-style-type: none"> Welcoming remarks by Torunn Skard from the Norwegian Ministry of Foreign Affairs Welcoming remarks by Fredrik Juell Theisen, Head of Delegation, Norway Item 2: Introduction and Adoption of the Agenda Item 3: Information and various updates <p>3.1 Outcomes from the Senior Arctic Officials (SAOs) Meeting (Nov 2019)</p> <p>3.2 Outcomes from other Arctic Council and international meetings of relevance</p> <ul style="list-style-type: none"> ✓ joint Arctic Council-Arctic Economic Council meeting in Oct 2019 ✓ Other meetings <p>3.3 Presentation by the Netherlands on its Arctic interests, including shipping</p> <p>3.4 Outcomes from the recent WMO-IMO International Symposium on Extreme Maritime Weather: <i>Towards Safety of Life at Sea and a Sustainable Blue Economy</i>.</p> <p>3.5 Presentation by EPPR on projects of relevance to PAME</p>	<p>PAME Chair</p> <p>PAME Chair</p> <p>Various</p> <p>The Netherlands</p> <p>WMO</p>

		EPPR
Agenda Item 3: Background documents <ul style="list-style-type: none"> ○ PAME II-2019 Meeting Report ○ PAME II-2019 RoDs ○ SAO Report, Nov. 2019 ○ PAME 2019-2021 Work Plan ○ PAME Achievements Report 2017-2019 ○ SAO Report to Ministers (May 2019) ○ 2019 Rovaniemi Joint Ministerial Statement ○ 2019 Rovaniemi Statement from the Finnish Chair of the Arctic Council ○ Iceland Chairmanship Program 2019-2021 ○ Common Operating Guidelines for Working Groups ○ Arctic Council Observer Manual ○ Arctic Council Rules of Procedures ○ Arctic Council Guidelines for Relationships with Outside Bodies ○ Arctic Council Communication Strategy (2018) ○ Arctic Council Communications and Outreach Guidelines (2016) 		
11:00-11:30	Item 4: Pan-Arctic Network of Marine Protected Areas (MPAs)	
	4.1 Update on the project on Modelling Arctic oceanographic connectivity to further develop PAME's MPA toolbox 4.2 Update on the project to develop factsheet(s) on Arctic Marine Climate Change Impact and MPAs 4.3 Summary of follow-up activities based on joint PAME and CAFF collaboration with UNEP-WCMC on Arctic PA Indicator Report 4.4 Presentation on the state and next steps of the PAMPAN initiative (Pan-Arctic Marine Protected Area Network)	Sweden Finland/USA PAME Sec WWF
Agenda item 4: Background documents <ul style="list-style-type: none"> ○ MPA Networks Action Table by USA (version 28 Aug 2018) ○ 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 ○ 4th MPA Workshop meeting site 		

11:30-11:45	Item 5: Protection from Invasive Species	
	<i>Outcomes on discussions between CAFF and PAME Chairs on next steps for the implementation of the Arctic Invasive Alien Species (ARIAS) action plan</i>	PAME Sec
Agenda item 5: Background documents		
<ul style="list-style-type: none"> ○ CAFF/PAME Arctic Invasive Alien Species Strategy and Action Plan (ARIAS). ○ Invasive Species on PAME.is 		
11:45-17:00	Item 6: Arctic Marine Shipping	
11:45-12:00	Summary from the Shipping Experts Group pre-meeting	SEG Co-chairs
12:00-15:00	Theme I: Enhanced Arctic Maritime Safety	
	6.1 <u>Linking with International Organizations (AMSA IA)</u> <ul style="list-style-type: none"> a) Arctic Shipping Best Practice Information Forum (ASBPIF) <ul style="list-style-type: none"> i. Status on the planning of its 4th annual meeting and engagement with the Forum participants ii. Discussions and next steps. b) SAOs' Nov 2019 Approval of MoU with the Arctic Regional Hydrographic Commission (ARHC) – next steps c) Summary of Information Paper submitted by IMO on issues and developments of interest to PAME d) Summary on communication with the International Council for the Exploration of the Sea (ICES) on its "Working Group on Shipping Impacts in the Marine Environment" (WGSHP) 	Canada/Iceland/ USA Canada/USA Canada/USA Kingdom of Denmark
	6.2 <u>IMO Measures for Arctic Shipping (AMSA IB)</u> <ul style="list-style-type: none"> a) HFO Phase IV(b) – Update on information compiled on-shore use by Indigenous and Local Community Reliance Upon Heavy Fuel Oil (HFO) project (TBC) b) Update on the project: <i>Black Carbon emissions from shipping activity in the Arctic and technology developments for their reduction</i> c) Update on the development of an overview of Arctic States' and Observer States' interpretation of the Polar Code. d) Summary of the report on <i>Impacts of a ban on heavy fuel oil use and carriage as fuel by ships in the Norwegian Arctic waters</i>. <i>Background: DnV GL is in the process of completing the report that will be submitted to IMO, PPR 7.</i> e) Summary on IMO submissions of relevance to PAMEs work on the use and carriage of heavy fuel oil as fuel by ships in Arctic waters f) Summary on Paris MoU Polar Code Inspection Campaign developments. g) Project proposal: New low sulphur fuels, fate and behavior in cold water conditions 	USA/AIA/CCU Iceland/Finland Norway Kjetil Martinsen from DnV GL SEG co-chairs KoD, Russia, Finland Norway
	6.3 <u>Strengthening Passenger Ship Safety in Arctic Waters I(D)</u>	

	<p>a) Summary outcomes from the one day Arctic Marine Tourism workshop on 3 February 2020.</p> <p>b) Status and next steps.</p> <p><i>Background: PAME members to submit to PAME I-2020 any information on site-specific guidelines for marine-based tourism in the Arctic region.</i></p>	Canada/Iceland/ UK
15:15-15:30	Theme II: Protecting Arctic People and the Environment	
	<p>6.4 <u>Addressing Impacts on Marine Mammals (III(G))</u></p> <p>Update on the project: <i>Underwater Noise in the Arctic – Understanding Impacts and Defining Management Solutions - Phase I</i></p> <p><i>Background: PAME invites one or more Arctic States to serve as co-lead with WWF on a proposed project concerning greywater discharges by vessels in the Arctic that could be approved intercessionally or as part of PAME's 2021-2023 Work Plan. PAME invites a presentation at PAME I-2020 by a relevant expert and the submission of any additional information on the topic.</i></p>	Canada/WWF
15:30-17:00	Theme III: Building the Arctic Marine Infrastructure	
	<p>6.5 <u>Addressing the Infrastructure Deficit (III(A))</u></p> <p>Brief update on the MEPC 74 submission concerning the concept of regional waste reception facilities in the Arctic</p>	Russia/USA
	<p>6.6 <u>Arctic Marine Traffic Systems (III(B))</u></p> <p>a) Update on the Arctic Ship Traffic Data (ASTD) project, including:</p> <ol style="list-style-type: none"> the status of the ASTD Framework Agreement The development of a guide on "How to use the ASTD System", and Proposed new data layers and a cost estimates for these proposed additions. <p>b) Update on the Arctic Shipping Status Reports (ASSR) Project - Consideration of Sample Report</p> <p>c) Update on the joint PAME/EPPR Compendium of Arctic Ship Accidents (CASA) Project.</p> <p><i>Background: PAME invites its members to inform the USA by 15 December 2019 of any errors or omissions in the data spreadsheet attached to the Compendium of Arctic Ship Accidents (CASA) Report (PAME (II)19/6.7/c). PAME requests that the USA continue to coordinate with EPPR on this joint project as necessary and appropriate and invites the USA to submit an update to PAME I -2020.</i></p>	<p>Norway/USA</p> <p>USA/PAME Sec</p> <p>USA</p>
	<p>6.7 <u>Engagement of Observer States PAME's shipping-related activities</u></p> <p>Update and status on project to more systematically engage Observers in PAME's shipping related work</p> <p><i>Background: PAME invites the project co-leads (USA, Poland, Republic of Korea, Northern Forum) to:</i></p> <p>✓ <i>divide and rank by feasibility the catalogue of ideas, suggestions, and recommendations into those that may feasibly be pursued by PAME member governments, and those that may feasibly be pursued by Observers;</i></p>	USA/ Korea/Poland/ Northern Forum

	<ul style="list-style-type: none">✓ <i>identify the catalogued items by feasibility and develop a summary with an explanatory notation on how each selected item could be pursued;</i>✓ <i>explore the development of a “PAME 101 for Observers”; and</i>✓ <i>submit a status report to PAME I-2020.</i>	
	<p>6.8 <u>Update on PAME’s Shipping Priorities and Recommendations</u></p> <p>Summary status on the Arctic Marine Shipping Assessment (AMS) update/refresh project matrix (updating the recommendations contained in the 2009 AMSA Report</p>	Canada/USA
Agenda item 6: Background documents		
<ul style="list-style-type: none">○ AMSA Final Report (2009)○ 4th AMSA Implementation Progress Report for the period 2015-2017○ Arctic Ocean Review (AOR) Final Report (2013)		
17:30-21:00	Reception at the Norwegian Maritime museum, Bygdøynesveien 37, N-0286 Oslo. https://marmuseum.no/en	
THURSDAY, 6 February		
Timeline	Agenda items	Note/Leads
09:00-10:00	Item 7: Arctic Offshore Resource Exploration and Development	
	<p>7.1 Outreach for MEMA Part II report</p> <p>7.2 Update / status report on the development of a handbook or reference guide for meaningful engagement with indigenous peoples and local communities..</p> <p>7.3 Update/status on Arctic States submissions on the information on current offshore oil and gas activities and relevant post 2010 legislation, regulations and practices.</p>	<p>Canada/USA/ ICC/AIA/Saami Council/Northern Forum</p> <p>USA</p>
Agenda item 7: Background documents		
<ul style="list-style-type: none">○ Meaningful Engagement of Indigenous Peoples and Communities in Marine Activities (MEMA) Part II Report○ Meaningful Engagement of Indigenous Peoples and Communities in Marine Activities (MEMA) Part I Report○ MEMA Workshop Report		
10:00-11:00	Item 8: Ecosystem-based Approach to Management	
	<p>8.1 <i>Summary status of the EA-EG work plan items 2019-2021:</i></p> <p>a) Status on the planning of the 7th EA Workshop in 2020 on element No. 5 of the EA framework, “Value the cultural, social, and economic goods and services produced by the ecosystems”.</p> <p>b) <i>Status on the development on the “Report on development in defining or setting Ecological Objectives” with two main parts: concepts related to ecological objectives, and experiences gained from practical application of ecological objectives.</i></p> <p>8.2 Update on PAME/ICES Working Group on Integrated Ecosystem Assessment in the Central Arctic Ocean (WGICA).</p>	<p>Norway/USA</p> <p>Norway/USA</p> <p>Canada</p>

	<div>8.3 Reporting from the meeting of the Provisional Scientific Coordinating Group under the Agreement to Prevent Unregulated High Seas Fisheries in the Central Arctic Ocean and opportunities for collaboration.</div> <div>8.4 Outcomes from collaborations with other Arctic Council working groups on EA-relevant activities.</div>	Norway/USA
<div>Agenda item 8: Background documents</div> <div><div><div>The 2017 – 2019 Progress Report of the Joint Ecosystem Approach Expert Group (EA-EG).</div><div>Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems (May 2019).</div><div>Status of Implementation of the Ecosystem Approach to Management in the Arctic.</div></div></div>		
11:00-12:00	Item 9: Arctic Marine Pollution	
	<div>9.1 Regional Action Plan on Marine Litter in the Arctic.<div><div>a) Summary outcomes from the one day marine litter expert workshop on 3 February 2020.</div><div>b) Status and next steps.</div></div></div> <div>9.2 Timeline to develop the AMSP Implementation Status Report 2019-2021.</div>	<div>Kingdom of Denmark/ Norway/USA (leads of leads)</div> <div>PAME Sec</div>
<div>Agenda item 9: Background documents</div> <div>Agenda item 9.1:<div><div><div>Desktop study on Marine Litter, including microplastics, in the Arctic (May 2019)</div><div>ML-RAP Expert Group nominations (Aug 2019)</div></div></div></div> <div>Agenda item 9.2<div><div><div>AMSP Implementation Progress Report 2017-2019</div><div>AMSP 2015-2025</div><div>AMSP Implementation Plan</div></div></div></div>		
13:00-17:00	PAME Breakout sessions: The aim is to finalize relevant documents and prepare draft RoDs for further discussion and agreement under Agenda Item 10.	
<div>PAME I-2020 plenary meeting room</div> <div>13:00-17:00 Shipping expert group</div> <div>Sørmarka rmarka meeting room</div> <div>13:00-14:00 - Marine litter expert group</div> <div>14:00-15:00 - REDEG group</div> <div>15:00-16:00 - EA expert group</div> <div>16:00-17:00 - MPA expert group</div> <div>Respective leads to provide draft RoDs to the PAME Secretariat by 18.00</div>		
FRIDAY, 7 February		
Timeline	Agenda items	Note/Leads
09:00-14:00	Item 10: Outstanding issues from previous days and Records of Decisions	
	<div>10.1 Outstanding issues and outcomes from the breakout sessions</div> <div>10.2 Summary of Meeting Decisions and Follow up Actions</div>	<div>Various</div> <div>Chair</div>
14:00-15:00	Item 11: Any other business and closing of the Meeting	
	<div>11.1 Upcoming meetings of relevance to PAMEs work</div> <div>11.2 Next PAME Meeting, any other business and closing of the Meeting</div>	<div>All</div> <div>Chair/All</div>
End of PAME I-2020 Meeting at 15:00 (tentative)		

ANNEX III: PAME I-2020: List of Documents

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 - Tuesday 4 February

The pre-meetings will take place at the facilities of the Norwegian Environment Agency. Following is a list of the times of the pre-meetings:

Nordmarka Meeting Room	Østmarka Meeting Room
<u>09:00-17:00 (whole day)</u> <i>Shipping Expert Group (SEG)</i> The agenda has been posted on the PAME I-2020 password protected site.	<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.
	<u>11:00-13:00</u> <i>Ecosystem Approach Expert Group</i> The agenda will be the items under Agenda Item 8.
	<u>13:00-15:00</u> <i>MPA Expert Group</i> The agenda has been posted on the PAME I-2020 password protected site.
	<u>15:00-16:00</u> <i>Marine Litter Expert Group</i> The agenda will be the items under Agenda Item 9.
	<u>16:00-17:00</u> PAME Member States and PPs HoDs only meeting.

PRE-MEETING Agenda items as relevant

Shipping Expert Group (SEG):

- ✓ SEG-pre meeting agenda (version 29 Jan)
- ✓ ICES WGSHIP meeting - 27-29 Nov.2019 – Summary Report
- ✓ Norce Research Project - information paper
- ✓ IMO's Sub-committee on pollution prevention and response meeting 7/1/1 - annotated agenda

Marine Protected Areas (MPA) Expert Group:

- ✓ MPA pre-meeting agenda

AGENDA 1 – Opening of the meeting

No documents

AGENDA 2 – Introduction and Adoption of the Agenda

Draft agenda with timeline (version 24 Jan 2020)

AGENDA 3 – Information from the Chair and the Secretariat

Background documents:

PAME II-2019 Meeting Report

PAME II-2019 RoDs

SAO Report, November 2019

PAME 2019-2021 Work Plan

PAME Achievements Report 2017-2019

SAO Report to Ministers (May 2019)

2019 Rovaniemi Joint Ministerial Statement

2019 Rovaniemi Statement from the Finnish Chair of the Arctic Council

Iceland Chairmanship Program 2019-2021

Common Operating Guidelines for Working Groups

Arctic Council Observer Manual

Arctic Council Rules of Procedures

Arctic Council Guidelines for Relationships with Outside Bodies

Arctic Council Communication Strategy (2018)

Arctic Council Communications and Outreach Guidelines (2016)

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

Agenda 4.1: Progress report on Modelling Arctic Oceanographic Connectivity

Agenda 4.2: MPA Factsheets

- ✓ Annotation to Agenda Item 4.2
- ✓ Draft 1st Factsheet Outline
- ✓ Working Bibliography
- ✓ Proposed Timeline

Agenda 4.3:

- ✓ Memo on Arctic PA Indicator Report 31 Jan 2020
- ✓ Annotation to agenda 4.3

Background Documents:

MPA Networks Action Table by USA (version 28 Aug 2018)

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
4th MPA Workshop Report

AGENDA 5 – Protection from Invasive Species

Agenda 5: ARIAS Summary update for information

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(a):

Background Documents:

- ✓ 3rd Forum summary report
- ✓ Circular Letter No.4009 - Arctic Shipping Best Practice Information Forum
- ✓ Press release for the 3rd Shipping Forum Meeting 3-4 June 2019
- ✓ 3rd Forum meeting website on PAME.is

Agenda 6.2(b): Black carbon project status report submitted by Iceland and Finland

Agenda 6.2(c): Interpretation of the Polar Code

- ✓ Update on Polar Code interpretation project by Norway
- ✓ Annex I-Submissions received on the interpretation of the Polar code

Agenda 6.2(d): Report on Impacts of a ban on heavy fuel oil use and carriage as fuel by ships in the Norwegian Arctic waters (DNV-GL 2019) by Norway

Agenda item 6.2(e):

Background Documents - from IMO's PPR meeting:

- ✓ PPR 6-INF.8 - Phasing out the use and carriage for use of heavy fuel oil in the Canadian Arctic: impacts to northern communities (submitted by WWF)
- ✓ PPR 6-12 - Impact assessment of a ban on the use and carriage of heavy fuel oil as fuel by ships in Arctic waters (Submitted by FOEI, Greenpeace, WWF, Pacific Environment and Clean Shipping Coalition)
- ✓ PPR 6-INF.19 - Cost analysis of Arctic HFO ban for cruise shipping a case study of the MS Rotterdam operations in the Arctic summer 2018 (Submitted by Clean Shipping Coalition)
- ✓ PPR 6-INF.24 - An overview of Canada's Arctic and the role of maritime shipping in Arctic communities, submitted by Canada
- ✓ PPR 6-INF.25 - Residuals bunker fuel ban in the IMO Arctic waters -an assessment of costs and benefits (Submitted by FOEI, WWF, Pacific Environment and Clean Shipping Coalition)
- ✓ PPR 7-INF.16 -Assessment of the benefits and impacts associated with a ban on the use and carriage of heavy fuel oil as fuel by ships operating in the Arctic, submitted by Canada

- ✓ PPR 7-INF.24 - Impacts of a heavy fuel oil ban on shipping costs for Canadian Arctic mining operations (Submitted by FOEI, WWF, Pacific Environment and Clean Shipping Coalition)

Agenda item 6.2(g):

Project proposal: New low Sulphur fuels, fate and behavior in cold water conditions by Norway

Background document: EPPR 2019 Reykjavik New-project-proposal new-fuels Norway (approved by EPPR on 15 Jan 2020)

Agenda 6.3: AMTP workshop 3 Feb 2020-version 20 Jan 2020

Agenda 6.4: Vessel Traffic Trends in the Arctic and Overlap with Important Marine Mammal Areas

Agenda 6.5: Background Documents:

From the Russian Federation to PPR 7:

- ✓ Report of the Correspondence Group
- ✓ Results of the impact assessment carried out by the Russian Federation and proposed factors
- ✓ Impact Assessment Report

Agenda 6.6(a): ASTD Background Documents

- ✓ updates on ASTD Framework attachments 1&2-clean
- ✓ updates on ASTD Framework attachments 1&2-edits

Agenda 6.6(b): Arctic Shipping Status Report #1 (ASSR) draft report

Agenda 6.7: Engagement of Observer States in PAME's Shipping Related Activities_27 Jan 2020

Agenda item 6.8:

- ✓ AMSA Recommendations update - Cover letter
- ✓ AMSA Recommendations update - Matrix

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 item 7.1: Draft MEMA brochure

Annotations to agenda items 7.1, 7.2 and 7.3

Background documents:

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

AGENDA ITEM 8 – Ecosystem-based Approach to Management

Agenda 8.1(a): Progress Report on work on the Ecosystem Approach to management in the marine Arctic for the 2019-2021 work plan period

Agenda 8.1(b): Report on status of developing and setting ecological objectives in Arctic marine ecosystems

Agenda 8.2: Update on PAME/ICES Working Group on Integrated Ecosystem Assessment in the Central Arctic Ocean (WGICA)

Information document: ICES new Working Group on Integrated Ecosystem Assessment of the Greenland Sea (WGIEAGS)

Agenda 8.3: Reporting from the meeting of the Provisional Scientific Coordinating Group under the Agreement to Prevent Unregulated High Seas Fisheries in the Central Arctic Ocean and opportunities for collaboration

Agenda 8.4: Collaboration with other AC WGs on EA

Agenda item 8 - Background documents:

- ✓ The 2017 – 2019 Progress Report of the Joint Ecosystem Approach Expert Group (EA-EG).
- ✓ Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems (May 2019).
- ✓ Status of Implementation of the Ecosystem Approach to Management in the Arctic.

AGENDA ITEM 9 – Arctic Marine Pollution

Agenda item 9.1:

- ✓ Annotation for agenda item 9.1
- ✓ Regional Action Plan on Marine Litter in the Arctic - 1st draft version 14 Jan 2020
- ✓ Cover Letter – for 1st version of Regional Action Plan
- ✓ ML-RAP Expert Group Mtg agenda 3 Feb 2020 (version 17 Jan)
- ✓ Regional Action Plan on Marine Litter in the Arctic - 1st draft version 14 Jan 2020 with compiled comments for discussion at 3 February ML-RAP Expert group Workshop
- ✓ Plastic in a Bottle outreach-seeking partner

Background document (agenda item 9.1)

Desktop study on Marine Litter, including microplastics, in the Arctic (May 2019)

Agenda 9.2: Timeline to develop the 3rd AMSP implementation Report

Background documents (agenda item 9.2)

AMSP Implementation Progress Report 2017-2019

AMSP 2015-2025

AMSP Implementation Plan

Additional Information

PAME I-2020 logistics and hotel information

PAME Thematic Expert Groups (nominations, version 23 Jan 2020)

List of Participants – as of 31 Jan 2020

PAME I-2020 meeting reception Wed 5 Feb 2020

List of Documents

ANNEX IV: RECORD OF DECISIONS AND FOLLOW-UP ACTIONS

PAME I-2020 (5-7 February 2020)

Oslo, Norway

Opening of the Meeting

PAME thanks Norway for hosting PAME-I 2020 and notes with appreciation the welcoming remarks from Bergljot Hovland, Deputy Director, Norwegian Ministry of Foreign Affairs and Fredrik-Juell Theisen, PAME Head of Delegation for Norway.

Information and various updates (Agenda Item 3)

PAME takes note of:

- ✓ Outcomes from the SAO Meeting in November 2019.
- ✓ The Arctic Ocean Decade Workshop in Tromsø in January 2020 and the planned Regional Arctic Ocean Decade Planning Workshop, 29 April – 1 May 2020 in Copenhagen, Denmark and their contribution to the UN Decade of Ocean Science for Sustainable Development.
- ✓ The Our Ocean Conference, 23-24 October 2019, in Oslo, Norway and a side event by Iceland's Chairmanship on Marine Litter/Plastics on 23 October 2019.
- ✓ The update on the Agreement to Prevent Unregulated High Seas Fisheries in the Central Arctic Ocean (CAO Fishing Agreement);
- ✓ The update on Iceland's Arctic Council Chairmanship plans to convene a two-day marine focused session at the March 2020 SAO Meeting. PAME looks forward to receiving further information on this session and encourages its delegations to attend.

PAME thanks the following speakers for their presentations in the pre-meetings and/or in plenary:

- ✓ Dr. William D. Halliday, Wildlife Conservation Society, Canada, for his presentation on "Vessel Traffic Trends in the Arctic and Overlap with Important Marine Mammal Areas";
- ✓ Mr. Ed White, Circumpolar Conservation Union, "Grey water Discharges by Vessels in the Arctic";
- ✓ Captain Tero Jokilehto, World Meteorological Organization, "International Symposium on Extreme Maritime Weather: Towards Safety of Life at Sea and a Sustainable Blue Economy";
- ✓ Mr. Gunnar Malm Gamlem, Norwegian Shipowners' Association, "Shipping Worldwide and in the Arctic";
- ✓ Mr. Kjetil Martinsen, DNV GL, "Impacts of a Ban on Heavy Fuel Oil Use and Carriage as Fuel by Ships in the Norwegian Arctic Waters";
- ✓ Mr. Pedro Holteng, Embassy of the Kingdom of the Netherlands, "Arctic Activity and Maritime Interests";

- ✓ Mr. Piotr Graczyk, NORCE Norwegian Research Centre, “Polar ICE: Polar Code Implementation, Compliance and Enforcement”;
- ✓ Mr. Ole Kristian Bjerkemo, EPPR, “EPPR Activities”; and
- ✓ Mr. Per Jonsson and Mr. Göran Broström, University of Gothenburg, “Modelling Arctic oceanographic connectivity to further develop PAME’s MPA Network Toolbox”.

PAME invites India to make a presentation at PAME II-2020 on its Arctic interests.
PAME invites a representative of the United States shipowners association to make a presentation at PAME II-2020 on its Arctic interests.

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

PAME thanks Canada for the workshop report 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”, 19-21 March 2019, in Cambridge Bay, Nunavut, Canada.

PAME accepts Canada’s offer to provide potential next steps of how to integrate the workshop information into the expansion and refinement of the MPA Network Toolbox and other PAME work for discussion at PAME II-2020.

PAME thanks Sweden for the update and presentation on preliminary findings from the project, “Modelling Arctic oceanographic connectivity to further develop PAME’s MPA Network Toolbox”. PAME requests Sweden to circulate the technical report to the project reference group for review prior to the project’s conclusion in July 2020 and submit a draft final report to PAME II-2020. PAME accepts Sweden’s offer to provide options for the project to contribute to the expansion and refinement of the MPA Network Toolbox and other relevant PAME work for discussion at PAME II-2020.

PAME thanks WWF for its presentation on its Pan-Arctic Marine Protected Areas Network project and notes potential synergies between this project and PAME’s work on MPA Networks, in particular on connectivity.

PAME welcomes the update from the co-leads (Finland and USA) on developing Factsheets related to MPAs and Indigenous Peoples’ Lives in a changing climate. Project co-leads will circulate the 1st Factsheet draft outline and proposed project timeline to the project reference group for written comments by February 21. PAME appreciates engagement in the project’s reference group from the Permanent Participants and other Arctic Council Working Groups and welcomes additional representatives.

PAME welcomes the progress to date on PAME and CAFF Secretariats’ cooperation with the UN Environment Programme World Conservation Monitoring Centre to update the Arctic Protected Areas Indicator Report, notes the timeline to finalize this update, and looks forward to receiving an update on progress at PAME II-2020. PAME reminds its members to submit national MPA updates as soon as possible to the PAME and CAFF Secretariats.

Protection from Invasive Species (Agenda item 5)

PAME recognizes the need to further explore ways and capacity in which PAME can become more engaged in the joint PAME/CAFF effort to implement the Arctic Invasive Alien Species Strategy and Action Plan (ARIAS) as it relates to marine actions. PAME members are

encouraged to coordinate with their CAFF counterparts to explore ways forward for a possible project on this topic for inclusion into the PAME 2021-2023 Work Plan.

Arctic Marine Shipping Assessment (Agenda Item 6)

Theme I: Enhanced Arctic Maritime Safety

Linking with International Organizations (AMSA I(A))

PAME invites the Arctic Shipping Best Practice Information Forum Coordinating Committee to continue planning for the 4th annual meeting, scheduled for 11-12 May 2020 at IMO Headquarters in London. PAME thanks IMO for agreeing to host this meeting. PAME also invites the Forum Coordinating Committee to submit a report on the outcomes of the Forum meeting to PAME II-2020.

PAME notes the approval of the draft PAME-Arctic Regional Hydrographic Commission (ARHC) MoU (Appendix A to PAME (II)/19/6.1/b)) by the SAOs in November 2019 as well as by the ARHC in December 2019. PAME approves signing of the final MOU by the PAME Chair or Vice-Chair in coordination with the ARHC.

PAME invites the IMO Secretariat to submit to PAME II-2020 information on IMO issues and developments of interest to PAME, including with respect to the IMO Secretariat's development of a Polar Strategy.

PAME invites the International Council for the Exploration of the Sea (ICES) to attend PAME II-2020 and to make a presentation or submit a status report on its 'Working Group on Shipping Impacts in the Marine Environment (WGSHP)', including with respect to potential linkages with the Arctic Council and PAME's shipping and other related work. PAME notes that the WGSHP will hold its next meeting in May or June 2020 (Hamburg, Germany).

IMO Measures for Arctic Shipping (AMSA I(B))

PAME invites its members to nominate subject matter experts by 1 March to participate in a correspondence group established to advance work on the Finland/Iceland co-led project regarding "Black carbon emissions from shipping activity in the Arctic and technology developments for their reduction". PAME invites the co-leads to submit a revised project proposal as soon as practicable and a project status report to PAME II-2020.

PAME invites Norway to submit a revised template and a survey by 1 March. PAME invites its members to submit to Norway by 1 May comments on the survey and its preliminary analysis of information received regarding interpretations of the Polar Code. PAME also invites those Arctic States and Observer States that have not yet submitted information for this project to do so by 1 May. PAME invites Norway to provide a status update to PAME II-2020.

PAME invites Arctic States and Observer States to submit to PAME II-2020 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 appreciates the decision by the Paris Port State Control MOU (Paris MOU) to organize an Inspection Campaign on the Polar Code in 2022 and encourages Arctic States and Observer States that are members of the Paris MOU to cooperate with and actively support the campaign. PAME welcomes the proposal of the Russian Federation to support a similar campaign under the Tokyo Port State Control MoU (Tokyo MOU) by PAME members that are also members of the Tokyo MOU. PAME invites the Kingdom of Denmark, the Russian Federation, and Finland to provide an update to PAME II-2020 on developments, if any, with respect to such campaigns by the Paris MoU and Tokyo MOU.

PAME appreciates Norway's update on progress concerning its "New Low Sulphur Fuels, Fate and Behavior in Cold Water Conditions" project and invites PAME members to participate in the project and nominate experts by 1 March to participate in an expert group in support of the project. PAME acknowledges EPPR's approval of the project in January 2020 and the fact that it is now a joint PAME-EPPR project. PAME also notes Norway's request for financial contributions to the project, and that a project plan including different financing options will be sent to those with an interest in participating in the project. PAME notes its important contribution to the 21-23 October 2019 "Ministerial Conference on Fishing Vessel Safety and IUU Fishing", notes Poland's decision to ratify the 2012 Cape Town Agreement for the safety of fishing vessels, and encourages Arctic States and Observer States that have not yet done so to consider ratification.

Strengthening Passenger Ship Safety in Arctic Waters (AMSA I(D))

PAME notes with appreciation the successful one-day Arctic Marine Tourism Project Workshop (3 February), invites its members to submit by 1 June any information on site-specific guidelines for marine-based tourism in the Arctic region, and instructs the project co-leads (Canada, Iceland, and United Kingdom) to provide an update to PAME II-2020.

Theme II: Protecting Arctic People and the Environment

Addressing Impacts on Marine Mammals (AMSA II(G))

PAME invites its members as well as other Arctic Council working groups to submit comments by 1 April on the draft report titled "Vessel Traffic Trends in the Arctic and Overlap with Important Marine Mammal Areas" (PAME (I)/20/6.4/). PAME also invites its members by 1 April to identify which one of the following three options they support for future work on developing a baseline for underwater noise maps (e.g. quiet and noisy areas, and noise propagation) for Arctic shipping:

- ✓ Focus on the marine mammal areas with the highest vessel traffic (i.e., the top 10 for cetaceans and pinnipeds as listed in the draft report);
- ✓ Focus on the seas with the highest vessel traffic that also overlap with multiple marine mammal areas (i.e., Bering Sea, Barents Sea, and Baffin Bay-Davis Strait); or
- ✓ Focus on the circumpolar Arctic as a whole.

PAME invites WWF to submit to PAME II-2020 options for a possible PAME project on grey water discharges by vessels in the Arctic that could be co-sponsored by one or more Arctic States/PPs and approved intersessionally or as part of PAME's 2021-2023 Work Plan. PAME also invites a presentation at PAME II-2020 by an Arctic Indigenous community representative on vessel grey water discharges and their impacts.

Theme III: Building the Arctic Marine Infrastructure

Addressing the Infrastructure Deficit (AMSA III(A))

PAME invites the USA and the Russian Federation to:

- ✓ circulate for comment as soon as practicable proposed draft MARPOL amendments language that would implement a Regional Port Waste Reception Facilities regime in the Arctic region. The deadline for any comments on this draft language is 1 June 2020;
- ✓ make a presentation at PAME II-2020 on IMO MEPC's Arctic Port Reception Facilities agenda item; and

- ✓ submit an update of the 2012 USA paper titled “Specially Designated Arctic Marine Areas and Port Waste Reception Facilities” (PAME (I) 12/4.6/b), including with respect to the paper’s annex listing port waste reception facilities in the Arctic with their capabilities and capacities.

Arctic Marine Traffic Systems (AMSA III(B))

PAME encourages the ASTD project co-leads to:

- ✓ continue development of the ASTD System;
- ✓ continue raising awareness of the ASTD System, including by making presentations as appropriate in other fora (e.g., Arctic Coast Guard Forum, other Arctic Council Working Groups); and
- ✓ facilitate ASTD System access by eligible applicants.

PAME thanks ASTD Participants for their ongoing voluntary annual contributions to the maintenance and operation of the ASTD System.

PAME invites additional comments by 1 March on draft Arctic Shipping Status Report (ASSR) #1 (“The Increase in Arctic Shipping: 2013-2019”). PAME instructs the project co-leads (USA and the PAME Secretariat) to circulate a revised ASSR Report #1 by 10 March to PAME Heads of Delegation (HoDs) for approval for proposed posting on the PAME website by 24 March. PAME instructs the project co-leads to develop a draft list of future report topics based, inter alia, on proposals from PAME members. The PAME Secretariat will post the draft list to the SEG password-protected website. Future ASSR Reports will be developed in consultation with appropriate subject matter experts and distributed for intercessional PAME HoD approval prior to dissemination.

PAME invites the USA to update the Compendium of Arctic Ship Accident (CASA) project data spreadsheet with information recently received from Canada, Norway, and Iceland, and to submit the updated data spreadsheet to PAME II-2020. PAME requests that Arctic States inform the USA by 1 June whether they have any reservation on the use of the data spreadsheet to create a new layer in the ASTD System.

Engagement of Observer States in PAME’s Shipping-Related Activities

PAME invites the project co-leads (USA, Poland, Republic of Korea, and the Northern Forum) to develop and distribute as soon as practicable to Observers a survey based on their PAME I-2020 paper (PAME (I)/20/6.7) requesting input on a selected list of the most feasible and useful options for strengthening Observer engagement with PAME’s shipping-related activities. PAME also invites the project co-leads to submit to PAME II-2020 a draft “PAME 101 for Observers” document and a project status report.

Update on PAME’s Shipping Priorities and Recommendations

With the objective of securing SAO and Ministerial approval in 2021 of updates to the 2009 AMSA Report Recommendations (the AMSA refresh project), PAME notes the Secretariat’s January 2020 circulation to all Arctic Council Working Groups and Subsidiary Bodies of the current draft updates with a comment deadline of 1 June. PAME instructs the project co-leads (Canada and USA) to submit to PAME II-2020 a status report and a final draft revision for PAME approval and submission to SAOs.

Resource Exploration and Development (Agenda item 7)

Meaningful Engagement of Indigenous Peoples and Local Communities in Marine Activities (MEMA): Co-leads: Canada, USA, ICC, Saami Council, AIA, Northern Forum.

MEMA Outreach:

- ✓ PAME notes drafts of outreach brochures and posters that contain the findings of the MEMA Part II Report including good practices and key lessons, with links to the MEMA database and the MEMA Part II Report. The Secretariat will finalize the brochure and poster and will circulate at relevant events and to relevant entities.
- ✓ PAME requests quality Arctic pictures (minimum 300 dpi), including pictures involving people, be provided to the Secretariat for use in its outreach materials.

MEMA Follow-up:

- ✓ PAME notes an update on the plan to develop a Reference Guide based on the findings of the database and MEMA Part II Report. The Reference Guide will include: 1) Factors that are important to achieve meaningful engagement, 2) Good practices for meaningful engagement, and 3) Key lessons. A draft Reference Guide will be brought forward to the PAME II-2020 meeting.
- ✓ PAME notes the Co-leads suggestion that PAME may want to recommend to the Arctic Council Secretariat/SAOs that the MEMA Reference Guide be used as a resource for all Arctic Council projects. PAME will circulate the draft Reference Guide to all Working Groups for comment in advance of sending to the SAOs.

Oil and Gas activities:

- ✓ PAME notes the work to collect information on current oil and gas activities and relevant post-2010 legislation, regulations and practices. The Project lead requested outstanding responses to the Survey. The Kingdom of Denmark, Iceland, and Norway have committed to providing input, and the Russian Federation was requested to respond. All input is requested by June 2020.
- ✓ A draft white paper will be prepared based on all submissions and brought forward to the PAME II-2020 meeting.
- ✓ It was suggested that GIS maps showing areas of oil and gas activities could be included as part of the white paper. The Resource Exploration and Development Expert Group (REDEG) will reach out to AMAP to see if the maps from the 2010 Oil and Gas Assessment could be updated. GRID–Arendal will also be approached.

Ecosystem Approach to Management (Agenda item 8)

PAME welcomes the initial planning of a 7th EA workshop in 2020 on element No. 5 of the EA framework, 'Value the cultural, social, and economic goods and services produced by the ecosystems', and notes the objectives and scope as outlined in the workshop prospectus (Annex I). Venue will be the University of Alaska campus in Nome, Alaska. The date will be 29 September – 1 October, following the PAME II-2020 meeting. A planning committee has been formed comprised of members from the EA Expert Group (EA-EG), Permanent

Participants and other Indigenous organizations (Saami Council, ICC and the Bering Sea Elders Group), and Observers .

PAME welcomes the plan to prepare the 'Report on development in defining or setting Ecological Objectives' with two main parts: concepts related to ecological objectives, and experiences gained from practical application of ecological objectives. An extended outline has been prepared by the EA co-leads, and a first draft will be prepared with input from PAME members and the EA-EG to PAME II-2020. EA co-leads plan to prepare a final draft for approval by PAME I-2021 as a potential deliverable for the 2021 Ministerial. PAME requests that names of those who would contribute to the report be sent to the Secretariat by February 28, 2020. In addition, PAME requests that information on relevant international conferences on this topic also be submitted to the Secretariat by February 28, 2020.

PAME welcomes the information on the new PICES/ICES Working Group on Integrated Ecosystem Assessment of the Northern Bering and Chukchi Seas. PAME supports engagement with this Working Group for informational purposes. PAME members to contribute information to the WG and WG chairs to communicate to PAME on the progress and the results of their work.

PAME welcomes the information on the work of the joint ICES/PICES/PAME Working Group for Integrated Ecosystem Assessment of the Central Arctic Ocean (WGICA) and notes that the first IEA report concerning the CAO ecosystem will be shared with PAME prior to being published as a Cooperative Research Report following peer review and technical editing by ICES. PAME also notes the plan to produce a second version IEA report with more emphasis on impacts of human activities on the CAO ecosystem to be completed in 2021.

PAME notes the upcoming meeting of the Provisional Scientific Coordinating Group under the Agreement to Prevent Unregulated High Seas Fisheries in the Central Arctic Ocean and welcomes opportunities for collaboration.

PAME welcomes efforts to strengthen the communication between the EA-EG co-chairs and the relevant Arctic Council Working Group members to: better coordinate our work plans and efforts towards Integrated Ecosystem Assessments; to inform about progress/status of respective work; and to seek inputs, as relevant. Communication efforts will include distributing the EA-EG Progress Report annually, inviting Working Group members to join workshop and conference planning committees, and inviting Working Group members to contribute to development of the next (2021-2023) work plan.

PAME welcomes the offer of the EA-EG to contribute to the EBM agenda at the "Marine Issues" component of the SAO meeting in Iceland (March 2020).

Arctic Marine Pollution (Agenda item 9)

PAME welcomes the 1st draft of the Regional Action Plan on Marine Litter in the Arctic (ML-RAP) and notes with appreciation the successful one-day expert workshop on 3 February on the development of the ML-RAP and contributions from marine litter experts and the AMAP representative in this regard.

PAME notes with appreciation the following timeline to further develop the ML-RAP:

- ✓ 13 March: 2nd draft based on agreed thematic issues as discussed at PAME I-2020
- ✓ 1 April: ML-RAP co-leads provide written comments on second draft

- ✓ 23 April: ML-RAP co-leads meeting back-to-back with the International Symposium on Plastics in the Arctic and Sub-Arctic Region in Reykjavik, Iceland to continue developing the 2nd draft ML-RAP.
- ✓ 15 May: 2nd draft circulated for review to PAME members, including ML Expert Group members, Observers and Arctic Council working groups.
- ✓ 12 June: comments due on 2nd draft of the ML-RAP
- ✓ 26 June: 3rd draft to co-leads
- ✓ 3 August: 3rd draft to PAME
- ✓ 1 September: comments due on 3rd draft
- ✓ PAME II-2020: Revised 3rd draft for discussion and comments

PAME notes with appreciation the marine litter communication and outreach activities implemented by its Secretariat, in particular the launching of GPS tracking capsule "message in a bottle" and invites those interested in taking part in launching additional capsules to contact the PAME Secretariat for further details. PAME welcomes the initial expressions of interest by the Netherlands, Finland and the Northern Forum.

PAME welcomes the interest expressed by the IMO Secretariat in the ML-RAP and encourages one or more of its members to share the final version with the IMO.

PAME welcomes the proposed timeline and next steps in developing the 3rd AMSP Implementation Report as submitted by the Secretariat, noting in particular the importance of engagement with other Arctic Council working groups and the planned 1/2 day workshop to be convened jointly with CAFF, back-to-back with the March 2020 SAO meeting.

PAME Administration and Next Meeting

PAME thanks Elizabeth McLanahan, PAME Vice-Chair, for Chairing this meeting.

PAME requests its Chair/Vice-Chair to contribute to the upcoming SAO meeting in March 2020, in addition to submitting a two-page PAME progress report as requested by the Arctic Council Chairmanship.

PAME notes the specific focus on marine issues at the upcoming SAO meeting in Akureyri Iceland, and encourages its members to reach out within their national delegations to support and brief their respective SAO's on PAME's work and welcomes the offer of the EA-EG to contribute to the SAO discussion on EBM as part of that meeting.

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-2020 meeting.

The 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 and input.

PAME notes the discussions by national HoDs on rotation of hosting PAME Working Group meetings and Chairing/Vice-Chairing PAME. The PAME Secretariat will circulate a revised version based on PAME's historical information on hosting/chairing for comments and intersessional approval prior to the PAME II-2020.

PAME thanks Norway and the Norwegian Environment Agency for hosting PAME I-2020. PAME welcomes the USA's invitation to host PAME II-2020 in Anchorage, Alaska (21-24 September 2020).

RoD Annex I: Seventh EA Workshop

Joint Ecosystem Approach Expert Group – PAME, AMAP, CAFF, SDWG

Values and valuation of the cultural, social and economic goods and services produced by Arctic ecosystems

Venue: University of Alaska, Nome

Time: 29 September – 1 October 2020

Workshop objectives:

1. Explore the relation between cultural and social values and the issue of valuation of ecosystem goods and services.
2. Consider the compatibility and approaches to deal with monetary and other non-monetary values (e.g. cultural and spiritual).
3. Identify next steps for work on the element of valuation in the Ecosystem Approach framework.

Background:

The Joint Ecosystem Approach (EA) Expert Group (EA-EG) has held 6 workshops in 2011-2018 on various aspects of development of EA to the management of Arctic marine ecosystems and two international conferences on EA implementation in the Arctic (Fairbanks, Alaska, August 2016, and Bergen, Norway, June 2019). To guide the development and implementation of the EA to Arctic marine ecosystems, the joint EA-EG prepared an EA framework that was used as a basis for the report '**Status of Implementation of the Ecosystem Approach to Management in the Arctic**' in 2017, and '**Guidelines for Implementing an Ecosystem Approach to Management of Arctic Marine Ecosystems**' that were welcomed by Arctic Council ministers in Rovaniemi in May 2019.

'Value the cultural, social and economic goods and services produced by the ecosystem' is one of the six elements of the EA framework. There has been limited work done so far by the EA-EG on this element. Taking the full economic picture of human development into account, including the downside in the form of costs associated with environmental degradation and loss of biodiversity, is an important part of what has been called 'greening of the economy'. On the other hand, there are spiritual (religious) and cultural values that perhaps should not be equated with money, but which nevertheless need to be brought into the 'equation' when options for future development are considered.

The basic value systems differ substantially between Indigenous Peoples and more industrialized societies, which needs to be recognized up front. There is a relation between the basic values you hold as a society, and the way you go about valuing the ecosystem. If the ecosystem is your 'home' or your 'garden', and if you depend on it through food harvest for nutritional, cultural, and spiritual well-being, you are likely to value 'ecosystem goods and services' in a different manner from those who regard nature as a commodity to be used for economic development.

At the workshop we aim to explore the relationship between value systems and the issue of valuation to provide a better understanding of the fundament for the further work on this element. We will explore options for valuation of ecosystem goods and services by examining approaches and methods that have been proposed or used elsewhere, and by holding conversations about our value systems. Based on this, the workshop will consider next steps regarding this element to strengthen the implementation of EA in the Arctic.

Planning committee:

Lis Jorgensen (Norway, EA-EG co-chair)

Libby Logerwell (USA, EA-EG co-chair)

Hermann Karrtokallio (Finland, EA-EG)

Gunn-Britt Retter (Saami, Saami Council, SDWG) TBC

Tom Christensen (Kingdom of Denmark, CBMP, CAFF)

Cecilie von Quillfeldt (Norwegian Polar Institute, CBMP, CAFF)

Mellisa Johnson (Maktuayaq Inupiaq, Bering Sea Elders Group)

Nicole Kanayurak (Inuit Circumpolar Council)

Soffia Guðmundsdóttir (Iceland, PAME Secretariat)

Kári Fannar Lárusson (Iceland, CAFF Secretariat)

Jennifer Spence (Canada, SDWG Secretariat)

Jan Rene Larsen (Kingdom of Denmark, AMAP Secretariat)

Martin Sommerkorn (Norway, WWF)



PAME International Secretariat

Borgir, Norðurslóð
600 Akureyri
Iceland

Tel: +354 461 1355
Email: pame@pame.is
Homepage: www.pame.is