

Extraordinary ARHC meeting 2016-1:
Armed Forces Officers Club & Hotel – Abu Dhabi UAE
Saturday May 28th, 2016 from: 14:00to 17:00 *(Abu Dhabi, UAE Local Time)*

Member States (MS) Participants:



Canada: Denis Hains, Chair (CHS) & Doug Brunt (CHS)



United States of America (USA): John Lowell (NGA) & Jonathan Justi (NOAA)



International Hydrographic Organization (IHO) – Observer:

- Mustafa IPTES, Director

Regrets:



Denmark – Member State



Norway – Member State



Russian Federation – Member State



Finland - Observer



Iceland – Observer

Quorum Status

Required (Article 6(d)): 4

Attendees: 2

Quorum: No

Agenda *(Notes of the meeting in Italic bleu text below):*

- a) 14:00 *(Abu Dhabi, UAE Local Time)* Welcome and review of the Agenda;
Agenda approved with no change.
- b) 14:15 Review of the ARHC Report to be presented at the IRCC8;
The Power Point presentation of the ARHC Report was reviewed, modified and supported. The Final ARHC Report will be finalized at the Extraordinary ARHC meeting Tuesday.
- c) 14:45 Review of the Logistic for ARCH6 in Iqaluit, Canada in October 2016;
Review of travel arrangements and booking of rooms flights.
- c) 15:15 Suggested preliminary Agenda items for ARHC6;
Members present Brainstormed on possible Agenda items for the Annual ARHC6 meeting in Canada, and came with the following list:
 1. *Arctic-MSDI*
 2. *Targeted Controlled Crowd Sourcing*
 3. *Echo Sounder potential impacts on Marine Species*
 4. *Remote Sensing (Satellite-Derived) Bathymetry*
 5. *Council Selection*
 6. *Associate Members*
 7. *Risk Assessment Tool*
 8. *Outreach activities update:*
 - a. *Arctic Council:*
 - i. *PAME*
 - ii. *Emergency Preparedness, Prevention and Response WG – meeting June 14th in Montreal*
 - b. *Cruise Liners Industry Association (CLIA)*
 - c. *International Marine Organization (IMO):*
 - i. *Polar Code*
 - ii. *Equipment Requirement & Data submission*
 9. *GEBCO*
 - a. *Polar Ocean Mapping Meeting June 12-13, Monaco*
 - b. *Forum on Future of Ocean-Floor Mapping (FFOM), June 15-17, Monaco*
- e) 15:45 Preliminary discussion on the ARCH Representative Council Selection;

General discussion took place on documents to consider in drafting the ARHC document:

- *ARHC-5 Draft Council Selection document*
- *Draft North Sea Hydrographic Commission Council Selection document (10 Member States)*
- *Draft North-Indian Ocean Hydrographic Commission Council Selection document (9 Member States) suggested to be considered by Director IPTES.*

f) 17:00 Adjourn

Extraordinary ARHC meeting 2016-2:
Armed Forces Officers Club & Hotel – Abu Dhabi UAE
Tuesday May 31st, 2016 from: 17:20to 19:30 (*Abu Dhabi, UAE Local Time*)

Member States (MS) Participants:

-  Canada: Denis Hains, Chair + Douglas Brunt
-  Denmark: Jens Peter Weiss Hartmann, Vice Chair
-  Norway: Evert Flier
-  Russian Federation: Leonid Shalnov
-  United States: John Lowell & Jonathan Justi



International Hydrographic Organization (IHO) – Observer:

- Robert Ward, President

Regrets:

-  Finland – Observer &  Iceland – Observer

Quorum Status

Required (Article 6(d)): 4

Attendees: 5

Quorum: Yes

Agenda (*Notes of the meeting in Italic bleu text below*):

- 17:20 (*Abu Dhabi, UAE Local Time*) Welcome - and review of the Agenda;
- 17:25 Review of the ARHC Report to be presented at IRCC8;
 - *A hard copy of the report modified with Russian Federation requested changes included was circulated, reviewed by all and approved.*
 - DECISION – ARHC Report approved will be sent to IHO by Canada.**
 - *Discussion on Finland and Iceland membership status:*
 - *Full members = IHO Member States with Regional Territory*
 - *Associate Members: IHO MS with interest in the Region + contribute constructively in the business of the Commission. Need to submit a request to the Chair and decided by consensus by Full members. No voting rights.*
 - *Observer: IHO Members States or not with interest in the Region- no voting rights*
 - IHO Resolution 2/1997 indicates:*
 - *RHC membership may include full members, associate members, and observers, all willing to contribute to the safety of navigation in the fields of hydrography, nautical charting, nautical information or navigational warnings in the region concerned.*
 - *The roles of full members, associated members and observers will be defined by each RHC.*

- Full membership is reserved for IHO Member States within the region who sign the statutes of the RHC.
- Associate membership is available to other IHO Members States or States of the region who are non-IHO members, both being signatories of the statutes of the RHC.
- Other States and International Organizations active in the region concerned may be invited by the RHC to participate as observers.

ACTION 1 – Canada  to:

- a) review the IHO Resolution 2-1997 establishment of RHC;
- b) update the ARHC statutes as needed and submit to Full Members for review and endorsement;
- c) solicit formal written request by Finland and Iceland – circulate to full MS for review and acceptance via email in order to formalize at ARHC-6.

c) 17:50 Review Logistic related to ARCH6 in Iqaluit, Canada - October 2016;

- Canada informed all that it is important to confirm Flights and Hotel as soon as possible

ACTION 2 – Canada  to:

- a) confirm to members by when Ocean Innovation Conference registration can be completed

- Maximum delegation expected per Member States:

- Canada = 4 CHS + 3 other Canadian Government Departments (DND, INAC, NRCan)
- Denmark = 3
- Norway = 2
- Russian Federation = 3
- US = 7
- IHO = 2
- Finland = 1
- Iceland = 1

“Maximum” total expected =26

ACTION 3 – Russian Federation  to send promptly to Canada their list of possible delegates.

ACTION 4 – Canada  to issue individual letters of invitation to the Russian Federation delegates.

d) 18:00 Suggested preliminary Agenda items for ARHC-6;

Members reviewed the list of possible Agenda items below, developed at the Extraordinary ARHC 2016-1 meeting, May 28th, 2016 and modified it as follow:

1. Arctic-MSDI

ACTION 5 - US  to contact “Arctic SDI” and explore their possible involvement for the ARHC-6 meeting.

2. Targeted Controlled Crowd Sourcing
 - Cruise Liners Industry Association (CLIA)
 - Shipping Insurance Companies (explore how to contact and involve...)
3. Echo Sounder potential impacts on Marine Species
4. Remote Sensing (Satellite-Derived + other tech.) Bathymetry
5. Council Selection confirmation
6. Associate / Observer Members confirmation
7. Risk Assessment Tool
 - Russian Federation data still required to complete the Risk Assessment.

ACTION 6 - US  via the Operations and Technical Working Group (OTWG) will:

- a) contact the Russian Federation to identify data missing and needed to complete the Risk Assessment Tool.
- b) use the existing “public” Russian Data to get results for the entire Arctic until all data is available. The OTWG will share results with the Russian Federation first and will present at the ARHC-6.

c) At Denmark request, remove constraints in the Tool to allow all data provided along all Greenland coast and included in the Risk Tool result to be presented at ARHC-6.

ACTION 7 – Russian Federation  will provide the ARHC members an update by early September 2016, on how and when (realistic timeline) the whole Russian Federation Data will be shared for inclusion in the Risk Assessment tool.

8. Outreach activities update:

- Arctic Council:
 - i. Update on the PAME Letter
 - ii. Emergency Preparedness, Prevention and Response WG – Report on the June 14th meeting in Montreal, Canada.
- Arctic Expeditionary Cruise Ship Organization (AECO):

ACTION 8 – Norway  and Denmark  to liaise follow up and report at ARHC-6 on this “Targeted Controlled CSB possibility”.

- Cruise Line Industry Association (CLIA) - planned meeting August/September 2016 in Washington DC.

9. General Bathymetric Charts of the Ocean (GEBCO)

- Polar Ocean Mapping Meeting June 12-13, Monaco
- Forum on Future of Ocean-Floor Mapping (FFOM), June 15-17, Monaco

10. Arctic Community Capacity Building

- Canada with the collaboration of Academia to look into training Inuit in Hydrography. Denmark interested in the initiative.

11. Reports from the ARHC Chart Coordination Working Group & Operational and Technical Working Group

12. Recreational boating Pilot Project

ACTION 9 – Denmark  to contact OTWG about this Project

e) 19:00 ARHC response to PAME input to PAME II

ACTION 10 – Canada  to draft and share with ARHC members for input, review and endorsement the update report to PAME.

f) 19:00 ARHC at Arctic Council’s EPPRWG meeting–Montréal, June 14th 2016

ACTION 11 – Canada  will send a representative on ARHC’s behalf and will report at ARHC-6.

g) 19:05 ARHC and Open GIS Consortium (OGC) Arctic Spatial Data pilot project

ACTION 12 - US  will investigate with OGC the relationships to establish with ARHC. Note: IHO to sign soon a MOU with OGC that could serve to bridge the initiatives.

h) 19:10 Polar Ocean Mapping Meeting June 12-13, Monaco

- Canada will attend as ARHC rep promoting “Crowd Sourcing”, MSDI and Technologies (SDB, AUVs, ASVs, LiDAR...) and will report at ARHC-6.

i) 19:15 Selection of the Member State to occupy seat on IHO Council allocated to ARHC

- As the Council seat allocated to US Canada Hydrographic Commission will be occupied by either US or Canada, it is a fact that ARHC will never have more than 4 possible MS to pick from to occupy the Council seat allocated to ARHC.
- Member States discussed informally the likely scenarios related to other Commissions where they are also members ...
- It was agreed in principle that:

a. Given the likelihood of the possible scenarios, one MS was supported to be first Member State designated for the 1st session of the Council.

ACTION 13 – The identified MS will verify with its authorities to get support and acceptance – this will be reported promptly by the end of June 2016 to Canada as Chair for action with the members.

b. ARHC MS selection for the Council will be based on:

- i. Rotation of all 5 MS starting in alphabetic order (C, D, N, R and U) with option to opt out and go to the next MS on the list
- ii. Selection process/Statutes to include that the Member State selected to occupy the seat on Council allocated to the ARHC will acknowledge that it will represent the collective interests of the ARHC.

ACTION 14 – Canada  will:

a) **draft the “ARHC MS Selection for the IHO Council” to be added to the ARHC Statutes as an appendix;**

b) **will circulate the draft documentation for review and adoption via email prior to the ARHC-6.**

j) 19:30 Adjourn

k) ARHC Group Photo



ARHC, Abu Dhabi, 2016

ARHC - From left to right:

Douglas Brunt (Canada ); Evert Flier (Norway ); John Lowell (United States  NGA); Robert

Ward (IHO /President IHB); Denis Hains (Canada /Chair ARHC); Jens Peter Weiss Hartmann

(Denmark /Vice-Chair ARHC); Leonid Shalnov (Russian Federation ) , and Jonathan Justi (United States  NOAA).