

15th Conference of the IHO Hydrographic Commission of Antarctica (HCA)

Niteroi, Brazil, June 2018

HCA Chair Report

Dr Mathias Jonas
Secretary-General



A quick tour through IHO Governance (with special regard of HCA)

Revised IHO Convention put into force November 2016:

- Assembly is the main organ of the Organization (meets every three years - 2017 first time)



- Council (30 Member States out of 89 MS) – meets every year and oversees the operational work of the IHO in the intermediate period between Assemblies.



- Council reports to the Assembly (never done so far – 2020 will be the first time)
- The IHO Secretariat in Monaco (led by the SecGen) conducts the IHO 3 years Work programme (cut in annual slices) consisting of three main pillars:
 - Corporate affairs;
 - Technical work program;
 - Interregional coordination;



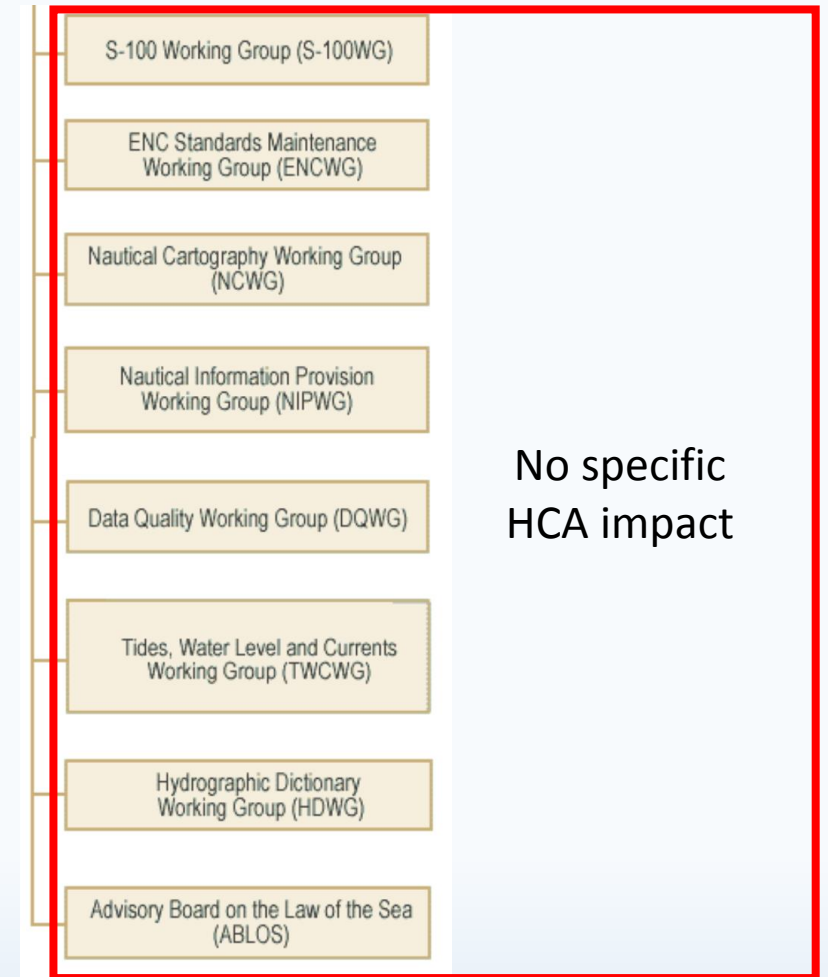
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Technical work program is conducted under the Hydrographic Standards and Services Committee HSSC.

This committee oversees numerous Working Groups for Technical Standards.

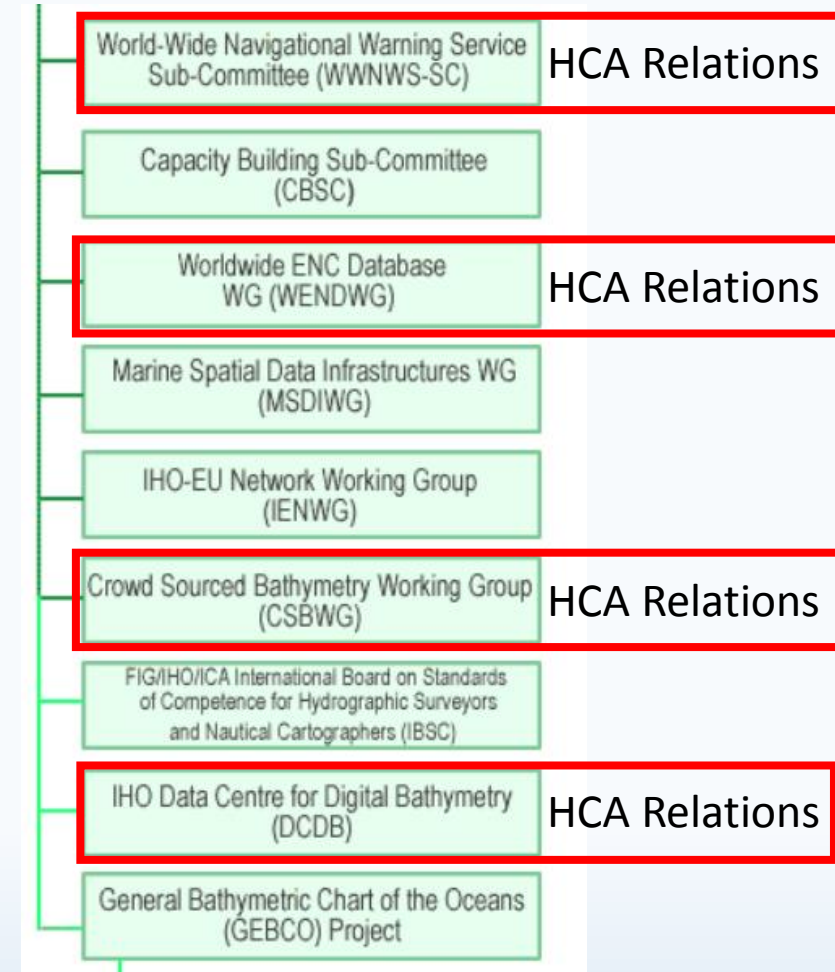
All of them under ToR and RoP endorsed by HSSC



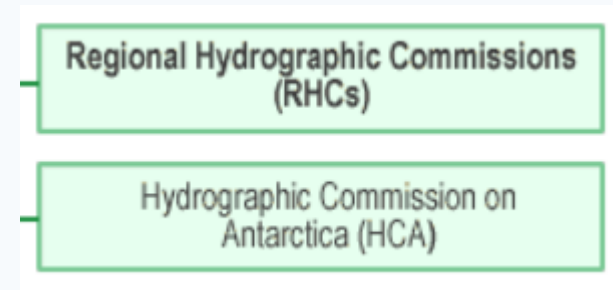
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Interregional Cooperation is conducted under the Interregional Coordination Committee IRCC. This committee oversees numerous native Working Groups. All of them under ToR and RoP endorsed by IRCC



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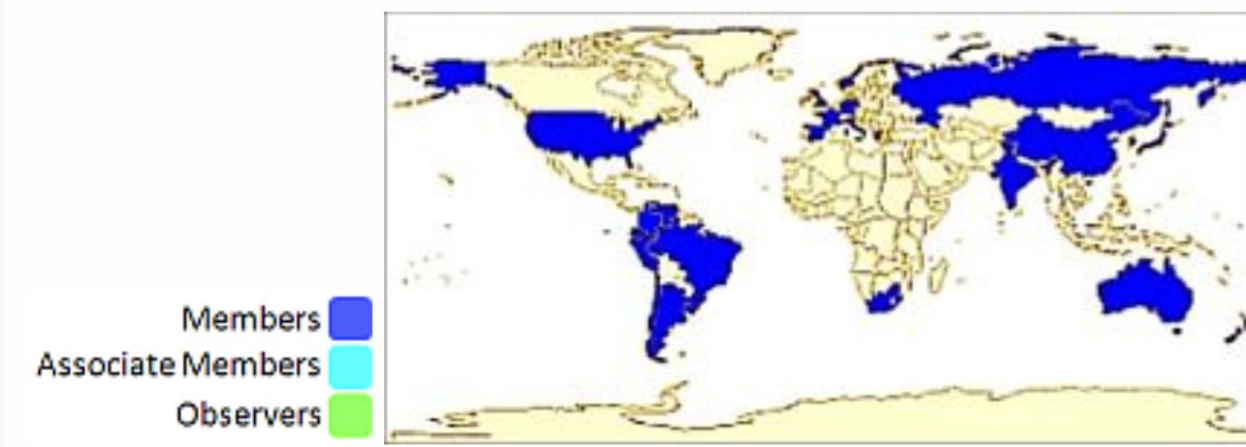
But...

the Interregional Coordination Committee IRCC collaborates likewise with fifteen Regional Hydrographic Commissions and the Hydrographic Commission of Antarctica. Regional Commissions are established in its own right by statutes and recognized by the Assembly (Article 8 of IHO General Regulations).

HCA has got its own statutes and adheres to IHO Resolution 2/1997 “Establishment of Regional Hydrographic Commissions”



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HCA is sovereign to identify task, ways and means to address the specifics of hydrography within the Antarctic region. HCA takes note of the relevant items of the corporate affairs and technical work program directly through the report of the HCA Chair (SecGen by statutes).

HCA cooperates with IRCC through membership of HCA Chair. HCA Chair reports to IRCC and in turn reports back to HCA about IRCC issues.

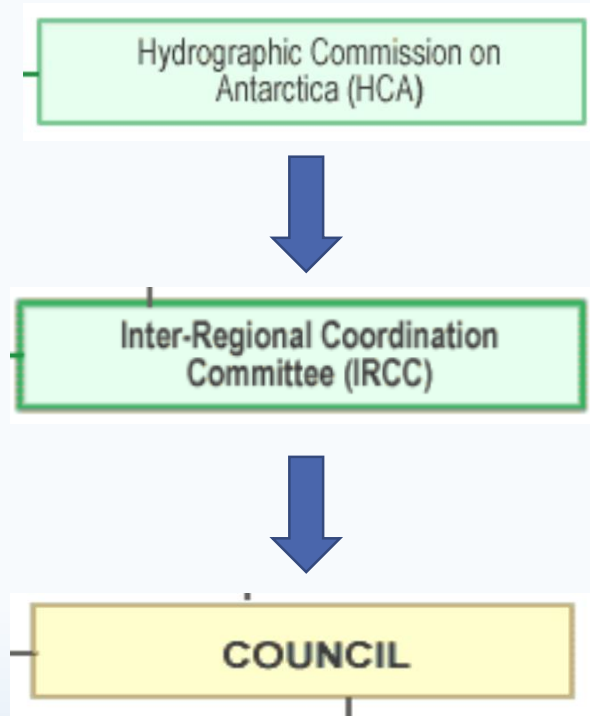


A quick tour through IHO Governance (with special regard of HCA)

Finally ...

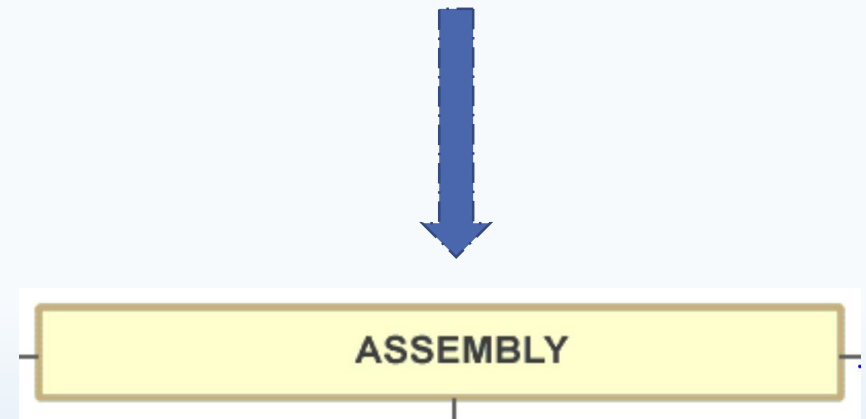
HCA reports to IRCC

... and IRCC reports to the Council



But ...

According to the IHO Resolution 2/1997 (under review) RHCs/HCA report to the Assembly directly.



Corporate Affairs: The revised IHO convention takes effect

Sixteen out of twenty-four HCA members are Council members.

C-1 experiences:

- productive format – relevant discussions and decisions
- Installation of the Strategic Plan Review Working Group
- Informal bilateral conversations as unexpected side effects

HCA Action:

Provide a report about this meeting to the IRCC chair for his report to C-2, if deemed necessary



IHO Secretariats activities relevant for HCA

- INTtoGIS: Secretariat finalized a hosting agreement with Korean Hydrographic and Oceanic Agency to maintain the underlying technical infrastructure
(more under Agenda Item 7.4B)
- Secretariat is tasked undertake an overhaul of the corporate design and communication means
- Secretariat has started preparations for the triennium celebrations of 100 years of international cooperation in hydrography (CL 32/2018 refers)

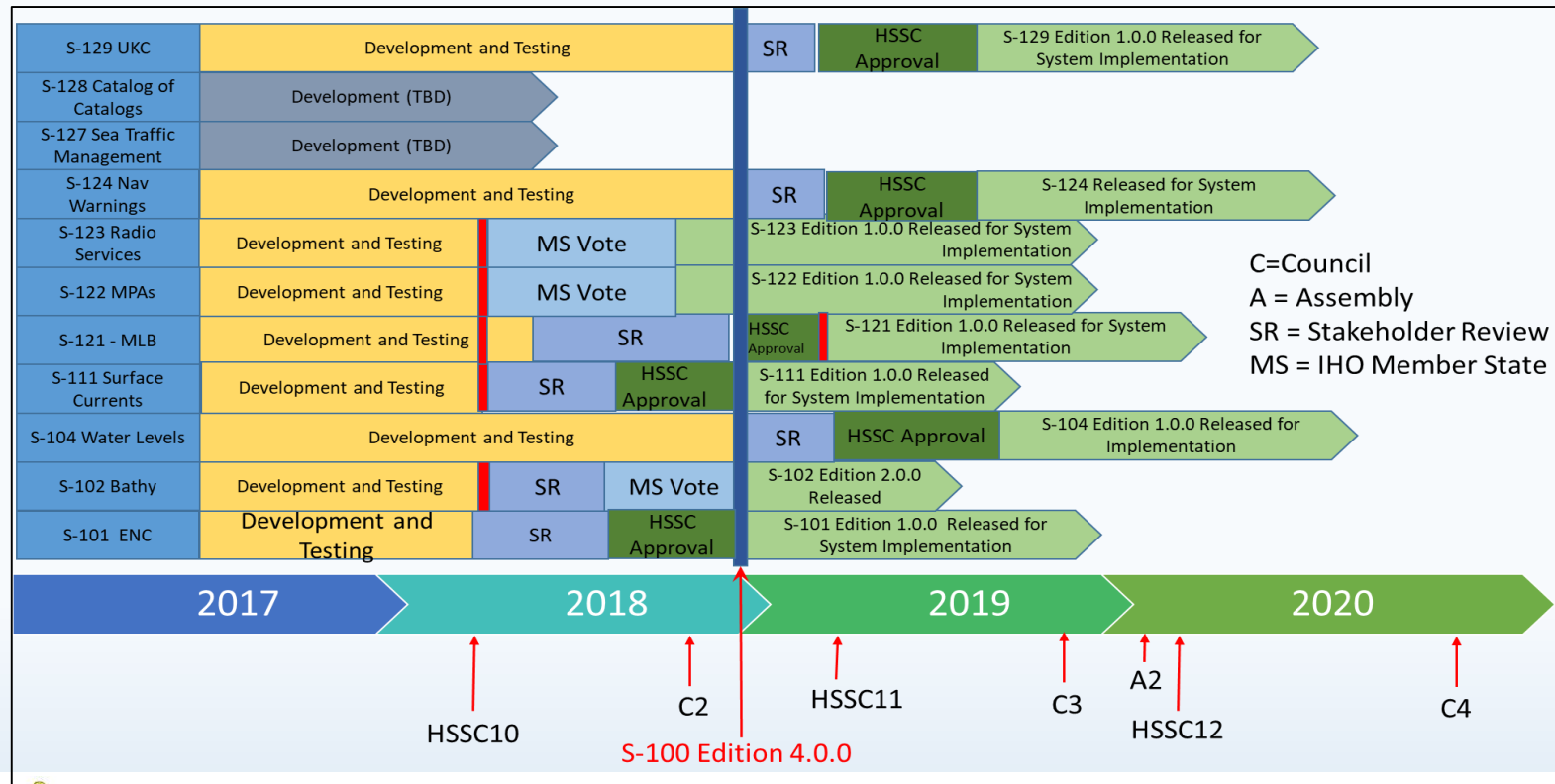
HCA Action:

Identify materials and contributions from the Antarctic region to demonstrate the achievements since 1st HCA Conference



Technical work programme: Recent development in standardization

- S-122 (Marine Protected Areas) and S-123 (Radio Services) are now ready for MS approval.
- S-101 Edition 1.0 will be ready for testing end of 2018
- S-111 Surface Currents and S-104 Water level information are mature now



HCA Discussion Point:
 Discuss if those new data formats are likely to be supported for the Antarctic Region in the near future



Interregional coordination: IRCC10 decisions potentially affecting HCA

- Redraft of Resolution 2/1997 to be discussed / endorsed by C-2

HCA Action:

Amend the HCA Statutes accordingly (editorial)

- Request National Coordinators to review the contents of the relevant Annexes of the GMDSS Master Plan and IHO Publication C-55 – Status of Hydrographic Surveying and Nautical Charting Worldwide – to ensure consistency for their national entries.

HCA Action:

Check national entries for the Antarctic region



Interregional coordination: IRCC10 decisions potentially affecting HCA

- ENC issues:

- RHCs should make their own assessment of the level of navigational risk for ENC overlaps using one of the RENCs' Policy on Risk Assessment as a first step where applicable.
- Review options, and recommend actions, that expand the value of the Worldwide ENC Database to all marine data users applying data management principles.
- recommendation that RENCs might consider offering an S-57 license management service to support safety of navigation for all classes of vessels.

HCA Action:

- Agree that the Region M Coordinator (and HCA Chair) has responsibility to check overlap within the Antarctic region
- Agree, iaw C1/34, that bathymetric information contained in HCA ENCs should be extracted and transmitted to DCDB



Interregional coordination: IRCC10 decisions potentially affecting HCA

- IRCC has endorsed Guidance to Crowd Source Bathymetry (www.iho.int > IRCC > CSBWG > Miscellaneous > B-12)
- CSBWG continues to exist to safeguard implementation phase.

HCA Action:

- IAATO to check if this guidance can be implemented technically – possibly by export from Voyage Data Recorder recordings.
- COMNAP should communicate such implementation guidance.
- How can industry / science and research be encouraged to join demonstrator projects?



Is there something to learn for HCA from the antipodes from the North, i.e. ARHC?

- In application of the Polar Code, Arctic Ocean AIS traffic density database under development (US, NO, KR) for risk assessment for being used in INTToGIS II
- Ocean Noise (see Doc. [ARHC7-B1](#)): UN General Assembly in paragraph 339 of Resolution 71/257, reminds that the United Nations Open-ended Informal Consultative Process on Oceans and the Law of the Sea shall focus its discussions at its nineteenth meeting, in 2018, on the theme "Anthropogenic underwater noise" + internal note from HCA Chair during ATCM40: *"...restrictions now put by some countries on the use of acoustic devices, including MBES and other sonars"*
- Cooperation with AECO (vs IAATO) is in progress
- Autonomous vehicles for Arctic Regions (NOAA Strategy)
- Arctic MSDIWG

HCA Action:

Discussion: Is an Antarctic MSDIWG required? To be discussed under agenda item 7.5



Best practice inspiration from IALA polar Navigation Workshop November 2017

- Deployment of real and virtual AtoN deployment in polar regions;
- Dedicated Web Portals: ArcticWeb, BarentsWatch;
- Polar regions proposed as test field for e-navigation;
- VDES in polar regions – desirable but difficult to implement;
- Crowd source bathymetry as valuable data source for sparsely surveyed areas;

HCA Action:

Discuss possible analogies for the Antarctic region with special regard of CSB



IHO Seminar at ATCM42 – Prague, Thursday 4 July, 10:00 – 11:00 – 1 hour only!

- Based on responses to HCA Letter 2/2017...

Intention of participation and provision of presentation at the seminar	Argentina, Brazil, Chile, France, Italy, Norway and UK, IAATO?, IALA?
Participation but no presentation	Republic of Korea, South Africa, United States
No participation	Germany, Japan, New Zealand

- HCA15/xx: Seminar WG (HCA Chair, AR, BR, CL, FR, IT, KR, NO, UK, USA, ZA, IAATO?, IALA?) to define the seminar agenda, topics/timetable, allocation of slots (**by the end of HCA15**)
- HCA15/xx: draft ppt presentations to be provided by contributors to HCA Chair and Seminar WG members (**by 30 Nov 2018**)
- HCA15/xx: executive summary of the seminar, to be provided by HCA Chair to ATCM (**by 1 March 2019, tbc**)
- HCA15/xx: consolidated presentations (**by 1 May 2019**), rehearsal (Special HCA Meeting, Prague, **Wednesday 3 July, tbc**)



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Topic	Content	Amount and Timing	Provider/Presenter
Briefing on HCA as recognized Body within the IHO framework	IHO Diagram List of full member and observers	Three slides maximum 10 Minutes	HCA Chair
Regional coverage with nautical charts	INTtoGIS for paper charts and ENCs	Four slides – two for each media 5 minutes	HCA Member 1
Seasonal traffic in the region – identification of survey priorities		10 Minutes	HCA Member 2
Professional survey for multiple use		5 Minutes	HCA Member 3
Concept of Crowd Source Bathymetry		10 Minutes	HCA Member 4
Best practice example of collaboration with IAATO, SCAR	To be confirmed	5 Minutes	Secretariat
Recommendation for ATCM Resolution / Conclusion		5 Minutes	HCA Chair

