

**IHO Hydrographic Commission on Antarctica (HCA)
8th Meeting, Niterói, Rio de Janeiro, Brazil, 06-08 October 2008**

FINAL MINUTES

- Notes: 1) A list of acronyms used in these Minutes is at Annex A.
2) A list of all actions from HCA-8 is at Annex E.
3) Names of persons are written in full the first time they appear in the Minutes. Afterwards, only the surname is shown.

1.- OPENING

Docs: HCA8-01A rev.5 [List of Documents](#)
HCA8-01B rev.1 [List of Participants](#)

The 8th Meeting of the Hydrographic Commission on Antarctica (HCA) took place in Niterói, Rio de Janeiro, Brazil, from 6 to 8 October 2008. The meeting was hosted and organized by the *Diretoria de Hidrografia e Navegação (DHN)*, and was held at DHN Headquarters. Fifteen HCA Member States¹, out of 21, were represented at this meeting, plus observers from COMNAP, IAATO and IOC. In total, 29 delegates were in attendance.

Participants were welcomed by Vice Admiral Luiz Fernando PALMER Fonseca, Hydrographer of Brazil. He emphasized the fundamental contribution of HCA to improving hydrography in Antarctica. Opening Remarks were provided by Captain Hugo GORZIGLIA, IHB Director and Chairman of HCA. He reminded that HCA aims at increasing the safety of life in Antarctic waters, as well as at protecting the marine environment in this region. He noted that HCA was benefiting from useful contributions from several international organizations. He thanked Brazil for the wonderful venue and the hard work in organizing this meeting. He welcomed Japan, Peru and Uruguay as new members of HCA, which brought to 21 the total number of HCA signatory members. He reported that apologies for absence had been received from South Africa and Japan.

There followed the HCA Chair's report, where he stressed the need to progress the INT chart and ENC production plans, and to update the HCA hydrographic survey plan. He reported on the very successful seminar on "*The Importance of Hydrographic Activities in Antarctica*" which was organized by HCA in the frame of the 31st Antarctic Treaty Consultative Meeting (ATCM) in Kyiv, Ukraine, on 01-13 June 2008 (see also paragraph 6.1). He concluded that the celebration in 2009 of 50 years of ATCM could be another opportunity to seek more support for hydrography.

The HCA Secretary, Ing. en chef Michel HUET (IHB), reviewed the documentation available to the meeting, noting that all documents were posted on the IHO website (www.iho.int > Commissions > HCA). Noting that several national reports had been received very lately, the HCA Chair suggested that such reports be provided at least one month in advance, for future meetings. This was agreed.

Outcome:

- The Commission noted the documents introduced.
- **Action 8/1 - HCA Members** to provide the Secretary with national reports at least one month in advance of HCA meetings.

2.- HCA MEMBERSHIP STATUS

Docs: HCA8-02A rev.1 [HCA Membership and Observers List](#)

¹ Argentina, Australia, Brazil, Chile, Ecuador, France, Germany, India, Italy, Norway, Peru, Spain, UK, Uruguay and USA.

HCA8-INF1 rev.1 [Current HCA Statutes](#)

The Chair indicated that HCA currently comprised 21 IHO Members States, including the recent joining of Japan, Peru and Uruguay. There remained 3 IHO Member States in the “Pending Confirmation Membership” section, i.e. Rep of Korea², Poland and Ukraine. He wondered whether we should continue to insist, sending invitation letters to them to join HCA. UK (RAdm Ian MONCRIEFF) suggested not insisting, a view which was generally supported. COMNAP (Mr Albert LLUBERAS) offered to assist on the matter through COMNAP meetings.

The Chair reminded that decisions at HCA meetings are normally taken by consensus. However should a vote be required, and noting that 15 HCA members were in attendance, 8 positive votes would be needed for approval.

Outcome:

- The Commission noted the two papers.
- **Action 8/2 – HCA Secretary** to remove the “Pending Confirmation Membership” section from the HCA Membership and Observers List.

3.- APPROVAL OF THE AGENDA

Docs: HCA8-03A rev.2 [Agenda](#)
 HCA8-03B [Annotated Agenda](#)
 HCA8-03C [Time Table](#)

The Chair mentioned that no comments on the draft agenda for HCA-8, which was circulated with HCA Letter 3/2008, were received at the IHB. USA-NOAA (Ms Marguerite DANLEY) offered to give a presentation on US activities in Antarctica. The Chair felt that the opportunity of the 50th anniversary of ATCM should be taken to seek more support for hydrography. It was agreed that both issues would be addressed under agenda item 9 (Any Other Business).

Outcome:

- The Commission approved the agenda with minor amendments (see Annex D).
- The Commission noted the other two papers.

4.- ELECTION OF VICE-CHAIRMAN

The Chair asked for volunteers, reminding that an HCA Vice-Chair must be elected at each HCA meeting. The current HCA Vice-Chair, Comdre Rod NAIRN (Australia), stated that he would prefer to resign. He added that the role of Vice-Chair is not onerous, although the past year required a bit more efforts to prepare the Seminar on Hydrography at ATCM-31. RAdm Ian MONCRIEFF (UK) kindly volunteered to take over; he was elected by acclamations.

On behalf of all HCA members and observers attending the meeting, the Chair warmly thanked Comdre NAIRN for his continuous and efficient support to HCA activities during his tenure as Vice Chair. (Applause)

Outcome:

- RAdm Ian MONCRIEFF (United Kingdom) was elected unopposed as Vice-Chairman of HCA.

² Rep of Korea subsequently signed the HCA Statutes on 7 November 2008.

5.- STATUS OF LIST OF ACTIONS RESULTING FROM THE 7TH HCA MEETING

Docs: HCA8-05A rev.1 [Status of Actions List from the 7th HCA Meeting](#)
 HCA8-INF2 [Minutes of the 7th HCA Meeting, Buenos Aires, Argentina, 2007](#)
 HCA8-INF3 [IHO Report submitted to ATCM-31](#)
 HCA8-INF4 [IHB Report on Seminar delivered at ATCM-31](#)

The Chair and the Secretary reviewed all actions arising from the 7th HCA meeting. Most of the actions had been completed and the pending ones were being addressed by this meeting under various agenda items. Particular comments were made as follows (Action nos. are those in HCA8-05A):

- **Action 7/3 – Provision of hydrographic services in Antarctica.** While the Commission recognized that Regulation 9 of SOLAS V was not applicable as such to Antarctic waters, it was agreed that there was a need to insist for ATCM signatories to provide hydrographic services. UK (MONCRIEFF) further stressed the need to keep momentum on ATCM Resolution on Hydrography in Antarctica (see paragraph 6.1). The Chair offered to address this issue in the IHO report to ATCM-32 in 2009, which was agreed.
- **Action 7/4 - HCA representative to IBCSO.** IOC (Dr. Dmitri TRAVIN) informed the Commission that Capt. FOMIN who was representing HCA to IBCSO, had retired. He also conveyed the apologies of RAdm KOZLOV, Director of DNO (Russian HO), for not attending this meeting. He further reported that DNO had two representatives at the IBCSO Meeting which was held in St Petersburg in summer 2008 (but not Capt. FOMIN). It was remarked that Capt. FOMIN never attended an HCA meeting, and considered desirable that any replacement should be able to participate in HCA meetings. It was agreed that HCA Chair would contact RAdm KOZLOV on the matter.
- **Action 7/5 - IPY Coordinating Committee.** UK (MONCRIEFF) reported that they had written to the co-chairs of IPY, but received no response. It was agreed that there was no point in pursuing this action which was therefore closed.
- **Action 7/7 – HCA Membership.** The Chair reported that the proposal in CL 11/2008 had been approved by a large majority (56 positive votes). France (Ms Gwladys THEUILLON) reminded that France had suggested changing Article 6 of the IHO General Regulations, not Article 8. Australia (NAIRN) did not think it would be appropriate to re-open this issue, which was agreed.
- **Action 7/8 - Performance Indicators.** UK (MONCRIEFF) reported that two papers by the ISPWG on this matter were being circulated and suggested, supported by Chile, waiting for the outcomes from ISPWG, before considering applying them to HCA e.g. in case ISPWG has identified specific PIs to HCA. This was agreed.
- **Action 7/9 – Awareness of hydrography by delegates to ATCM.** The Chair reported that a number of delegations to ATCM-31 were aware of hydrographic activities, more than in the past in his view. Also several HOs were contacted by their national delegations to ATCM, e.g. South Africa and Australia. It was agreed that briefing of national delegates to ATCM by HCA members should be kept as an ongoing action. UK (MONCRIEFF) further suggested that ATCM Resolution 5 (2008) on “*Improving hydrographic surveying and charting to support safety of navigation in the Antarctic region*”, be used as a means to attract government support, which was supported.
- **Action 7/11 – USA as INT producer nation.** USA-NOAA (DANLEY) is not involved in chart production in Antarctica. However, the 3 relevant INT charts (909, 9062 and 9105) can remain assigned to USA-NGA, although at a low priority. She added that USA-NGA does not produce ENCs, which is a complication.

- **Action 7/17 – IOC support to IBCSO project.** IOC (TRAVIN) confirmed that the IHB letter inviting the IOC Executive Secretary to provide further support to the IBCSO project was very well received, and very helpful.
- **Action 7/26 – HCA Seminar at ATCM-31.** The Chair stressed the usefulness of this seminar. It was THE activity of ATCM-31 when it took place. He received only good comments on this event and expressed his gratefulness to all speakers. UK (MONCRIEFF) mentioned the good support received from IAATO and COMNAP on this occasion. GEBCO/IBCSO (Dr Hans Werner SCHENKE) reported on a good feedback from the scientific community and suggested to repeat this exercise some time in future. Australia (NAIRN) confirmed this exercise was very positive, although it required lot of preparation work. The Chair suggested that similar seminars be possibly given at COMNAP and/or IAATO conferences. COMNAP (LLUBERAS) supported this view and proposed that an HCA Seminar be held during the next COMNAP Conference in Punta Arenas, Chile, in August 2009. It was agreed that this issue would be further discussed under agenda item 9 (see paragraph 9.1).

Outcome:

- The Committee agreed the Minutes of HCA-7 as a true record.
- The Committee noted the list of actions reviewed.
- **Action 8/3 - HCA Chair** to stress the importance of SOLAS V Reg. 9 (requiring contracting governments to arrange for the provision of hydrographic services) for safety of life at sea and protection of the marine environment in Antarctica, in the IHO report to ATCM-32.
- **Action 8/4 – HCA Chair** to write to the Director of DNO, Russia, requesting that, should a replacement of Capt. FOMIN be nominated by DNO to represent HCA matters within the IBCSO Editorial Board, the IHB must be informed. **DNO** shall ensure that its nominated expert will attend HCA meetings.
- **Action 8/5 – IHB** to update the draft HCA Performance Indicators Table (Annex F to Minutes of HCA-6) considering the outcomes of ISPWG and discussions held at HCA-8. **IHB** to populate the proposed table and submit it to the 9th HCA meeting.
- **Action 8/6 – HCA Members** to brief their national delegations to ATCM-32 on HCA activities and, based on ATCM-31 Resolution 5, seek for higher priority for hydrographic surveying and production of nautical charts in their national programmes.

6.- RELEVANT INTERNATIONAL ORGANIZATIONS' REPORT

6.1 Antarctic Treaty Secretariat (ATS) (www.ats.aq)

No report had been received from ATS. The Chair, referring to the HCA Seminar on “*The Importance of Hydrographic Activities in Antarctica*” that took place during ATCM-31, reported that this event was received as a great contribution from the IHO/HCA to the AT System and contributed to raise awareness of hydrography within ATCM signatory States. Over 300 persons attended the seminar that was delivered as part of the ATCM Agenda, with no other parallel activity taking place at the same time. The Seminar had a determining impact on the acceptance by ATCM-31 of the proposed resolution on “*Improving hydrographic surveying and charting to support safety of navigation in the Antarctic region*” which was included in a paper jointly submitted by UK and Australia as WP38. The agreed resolution is reproduced at Annex F.

The Chair also referred to several other documents of ATCM-31 which were relevant to HCA. He mentioned that any proposed resolution to ATCM can only be included in a Working Paper (WP), as opposed to an Information Paper (IP), and that WPs must be submitted by States, not organizations.

The 32nd ATCM will take place in Baltimore, USA, from 06 to 17 April 2009. This meeting will coincide with the 50th anniversary of the Antarctic Treaty.

Outcome:

- The Commission noted ATCM Resolution 5 (2008) on “*Improving hydrographic surveying and charting to support safety of navigation in the Antarctic region*”, as reproduced in Annex F.

6.2 Council of Managers of National Antarctic Programs (COMNAP) (www.comnap.aq)

Docs: HCA8-06.2A [COMNAP Report](#)
 HCA8-INF7 [Report on Workshop Towards Improved Search and Rescue Coordination and Response in the Antarctic](#), Valparaiso, Chile, 12-14 August 2008

COMNAP (LLUBERAS) introduced his report and gave a [presentation](#). He emphasized that the main purpose of COMNAP was to develop and promote best practice in managing the support to scientific research in Antarctica. Recent COMNAP activities of interest to HCA included: 1) a Workshop on SAR in Antarctica (Valparaiso, Chile, August 2008); 2) the setting up of a Ship Position Reporting System (SPRS); 3) the use of AIS for SAR purposes; and 4) the development of Antarctic facilities map.

He suggested that “Specifications and Guidelines for conducting hydrographic surveys using ships of opportunity in Antarctica” be developed, and he requested the support of HCA. The resulting document could be presented at COMNAP-XXI (Punta Arenas, Chile, August 2009), as part of the HCA Seminar on 3 August 2009 (see paragraph 9.1).

UK (MONCRIEFF) and USA (DANLEY) supported this proposal and offered to contribute to this development. After discussion, it was agreed that a small group lead by USA would develop such guidelines, based on the existing “*Collection and Rendering of Hydrographic Data*”.

The Chair clarified that a ship of opportunity will never be a hydrographic vessel. However, she can provide useful data if adequate guidelines are followed. Norway (Capt Gerry LARSSON-FEDDE) had reservations about passenger ships doing hydrographic surveys in uncharted waters, as this could detract the OOW to do his navigation work.

Outcome:

- The Commission noted the report and the information paper.
- **Action 8/7 – USA** (lead) and **UK**, in liaison with **COMNAP** to review and update the existing guidelines to conduct hydrographic surveys using ships of opportunity, i.e. HCA document “*Collection and Rendering of Hydrographic Data*”, taking Doc. HCA8-INF8 into consideration. **USA** to submit new text to the HCA Chair for distribution to COMNAP at the 2009 HCA Seminar.

6.3 International Maritime Organization (IMO) (www.imo.org)

There was no IMO representative at, nor IMO report to the meeting.

6.4 International Association of Antarctica Tour Operators (IAATO) (www.iaato.org)

Docs: HCA8-INF5 [IAATO Report 2007-2008 to ATCM-31](#)
 HCA8-INF6 [IAATO Overview of Antarctic Tourism 2007-2008 Antarctic Season](#)

IAATO (Mr Paul BEGGS) reported that Steve WELLMEIER (Swellmeier@iaato.org) had replaced Ms Denise LANDAU as Executive Director of IAATO. Referring to HCA8-INF6, he mentioned that, in total, 25,000 people landed in Antarctica during the 2007-08 season. He conveyed IAATO invitation for hydrographers to come and visit IAATO ships, look at equipment, and talk to people. He confirmed that IAATO was willing to contribute to improving hydrographic surveying in Antarctica via ships of opportunity.

Outcome:

- The Commission noted the two information papers.

6.5 Scientific Committee on Antarctic Research (SCAR) (www.scar.org)

There was no SCAR representative at, nor SCAR report to the meeting.

6.6 Intergovernmental Oceanographic Commission (IOC) (<http://ioc.unesco.org>)

IOC (TRAVIN) referred to the IOC support to IBCSO and GEBCO projects. The main problems were: 1) the difficulty to obtain bathymetric data from IOC Member States; and 2) the lack of financial support from IOC Member States. He invited HCA Members to brief their national delegations to IOC to support IBCSO, which was supported. He mentioned that the next IOC Assembly will be held in Paris, France, in June 2009.

Outcome:

- **Action 8/8 – HCA Members** to brief their national oceanographic committees and delegations to IOC, to support the IBCSO project.

7.- HCA ACTIVITIES IN THE LIGHT OF THE IHO WORK PROGRAM:

7.1 INT chart scheme: progress made since last meeting and actual charting status; new requirements and modifications proposed to the scheme (M-11).

Docs: HCA8-07.1A rev.1 [INT Chart Scheme and Production Status for Region 'M'](#)
 HCA8-07.1B [INT Charts in Progress or Not Produced](#)
 HCA8-07.1C [Layout of INT Production Status for Region 'M'](#)

Referring to HCA8-07.1A, IHB (HUET) reported on progress in INT chart coverage in Region 'M' over the past year. As of September 2008, 60 INT Charts had been produced out of the 98 INT charts of the scheme, i.e. 4 additional charts since HCA-7. Further, 23 INT Charts (New Charts or New Editions) were planned for publication from 2008 to 2013. He drew attention to HCA8-07.1C providing a lay-out of the status of INT chart production in Antarctica, as of September 2008.

The Commission then reviewed HCA8-07.1B which reported on those INT charts for which the IHB had no information regarding their current status. The review results are summarized in the table below.

INT No.	Producer	Scale 1:	Comments
9045	JP	500 000	It was agreed that HCA Chair would contact JHOD, asking for their intentions on these charts.
9046	JP	100 000	

9047	JP	10 000	
9000	IT	500 000	Italy (Cdr Enrico ANTONINO) reported that, despite repeated requests, IIM was still awaiting bathymetric data from Russia and USA, for the relevant area. It was agreed that USA-NOAA (DANLEY) would look for a solution on the US side in liaison with NGA. As NGA charts in Region M were compiled from data supplied by other HOs, she conveyed NGA's concern about possible copyright issues. It was confirmed that, in accordance with AT principles, data should be freely available within the AT area, i.e. without any copyright restriction, and that copyright applies to product only, not data.
908	GB	2 000 000	UK (Mr Ian SUTCLIFFE) said there was no production plan for these charts before 2015.
9107	GB	50 000	
9171	GB	500 000	
9112	GB	various	
909	NO	2 000 000	Formerly with USA as producer. Norway (LARSSON-FEDDE) volunteered to be the producer nation for this chart. This was agreed.
9062	US	200 000	USA-NOAA (DANLEY) reported that production of these charts was not a priority for NGA.
9105	US	25 000	
905	DE	2 000 000	Germany (SCHENKE) reported that production of this chart was under negotiation between AWI and BSH.
9140	AR	150 000	Argentina (VETERE) reported that efforts to produce this chart had been compromised due to a fire on a survey vessel. As a result, production of INT 9140 will not occur before 2015.
9111	AR	25 000	Publication still planned in 2012.
9100	AR	25 000	No plan for this chart for the time being. Argentina (VETERE) asked for a volunteering HO to take responsibility for this chart.
9101	AR	10 000	Publication now planned in 2012.
9115	AR	50 000	No plan for this chart for the time being.
9156	AR	150 000	Publication now planned in 2009.
9159	AR	150 000	Publication now planned in 2011.
9160	AR	150 000	Publication now planned in 2013.
9103	CL	50 000	Still no production plan for these charts. However Chile (SILVA) reported that improvements were expected from the recent installation of multibeam systems on icebreakers. UK (MONCRIEFF) offered assistance to Chile for the production of INT 9103 and 9104.
9104	CL	50 000	
9108	CL	50 000	
9110	CL	30 000	
9157	CL	150 000	No plan for these charts for the time being.
9161	CL	150 000	
9151	CL	200 000	Publication of these charts still planned in 2012, in cooperation with Brazil.
9152	CL	200 000	

9162	CL	150 000	Publication of these charts now planned in 2010.
9164	CL	150 000	
9131	GB ?	75 000	These new charts in the scheme had tentatively been allocated to UK at HCA-6. However, there is no production plan for these charts for the time being.
9132	GB ?	75 000	
9116	GB ?	various	
9130	GB ?	75 000	
9114	GB	various	UK (MONCRIEFF) volunteered to be the producer nation for this chart. This was agreed.
9125	BR-PE	40 000	Publication still planned in 2010, as a joint Brazil-Peru production. However, Peru (Cdr Luis HERNANDEZ Rubin) mentioned that they need more data to complete their part.

Additionally, Brazil proposed to include two new INT charts in the scheme, in the area of Elephant Island, based on Brazilian national charts 25119 and 25120 (see page 15 of HCA8-07.1A rev.1). It was agreed that HCA members and IHB would review and comment on this proposal within three months.

An updated version of HCA8-07.1B, showing all INT charts in progress or not produced, is provided at Annex H.

Outcome:

- The Commission noted the 3 papers.
- The Commission endorsed the transfer of responsibility for INT chart 909 from USA to Norway.
- The Commission acknowledged that Argentina, as producer nation for INT chart 9100, would welcome a volunteering HO to take responsibility for this chart.
- The Commission endorsed that UK assume responsibility for INT chart 9114.
- **Action 8/9 - HCA Chair** to write a letter to the Director of JHOD, asking for Japan's intention regarding INT charts 9045, 9046 and 9047.
- **Action 8/10 – USA-NOAA** to look for a solution for the provision of NGA's bathymetric data to Italy, in order for Italy to produce INT chart 9000.
- **Action 8/11 – HCA Secretary** to update the document showing Charts in Progress or not Produced (Doc. HCA8-07.1B), to be annexed to minutes of the 8th HCA meeting.
- **Action 8/12 – HCA Members and IHB** to review diagram on page 15 of Doc. HCA8-07.1A rev.1, showing two proposed new INT charts based on Brazilian national charts 25119 and 25120, and provide any comments to the IHB before 15 January 2009. Upon approval, IHB to inform Brazil and update INT Chart scheme for Region M.

7.2 ENC scheme and production status

Doc: HCA8-07.2A rev.1 [ENC Production Status in Antarctica](#)
HCA8-07.2B [ENC Scheme for Medium-Scales in Antarctica](#)

IHB (HUET) presented the ENC production status for Region 'M', as described in HCA8-07.2A. From the information available at the IHB, status of ENC production, as of September 2008, was as follows:

HCA Member	ENC published	ENC planned
Chile	- 2 "harbour" ENCs based on INT 9102 (CL5MA890) and 9155 (CL5MA800). However they were not yet available on the market.	
UK	- 12 "overview" ENCs based on INT 24 (GB104024A and GB104024B), INT 64 (GB104064A and GB104064B), INT 75 (GB104075), INT 65 (GB14065W and GB14065E), INT 63 (GB104063), INT 74 (GB104074), INT 907 (GB104907), and on national charts BA 4213 (GB104213) and BA 3200 (GB103200). - 1 "coastal" ENC based on national chart BA 2010 (GB372010). - 2 "approaches" ENCs based on national chart BA 3593 (GB43593A and GB43593B).	In 2008-09: - 3 "coastal" ENCs based on INT 9153 (GB372220), INT 9158 (GB372110) and INT 9154 (GB372210). - 2 "approaches" ENCs based on INT 9106 (GB47211A) and INT 9109 (GB47201A). - 1 "harbour" ENC based on INT 9158 (GB57211A).
France	- 1 "approaches" ENC based on INT 9016 (FR475940). - 1 "harbour" ENC based on INT 9017 (FR575930). - 1 "berthing" ENC based on INT 9017 (FR67593A).	In 2008-10: - 1 "overview" ENC based on INT 901 (FR175910). - "coastal" ENCs based on national charts 6741, 6498 and 7171.
Norway	- 1 "overview" ENC based on INT 904 (NO1A5500).	
Australia	- 2 "approaches" ENCs based on INT 9036 (AU468062 and AU468063). - 1 "harbour" ENC based on INT 9036 (AU5600P1).	In 2009-10 : - 1 « harbour » ENC based on INT 9014 (AU5603P1)
Italy	- 2 « coastal » ENCs based on INT 9004 (IT300884) an INT 9005 (IT300881)	

Australia (NAIRN) indicated that AHS will produce all remaining Australian ENCs in Antarctica by 2012. There were no further comments.

IHB (HUET) then presented a draft ENC scheme for medium scales (Coastal Navigation: Navigational Purpose 3), prepared at the IHB and described in HCA8-07.2B. It was agreed that HCA members would review this draft and provide comments within three months.

Outcome:

- The Commission noted the two papers.
- **Action 8/13 – HCA Members** to review the proposed medium scale ENC scheme, as in Doc. HCA8-07.2B, and provide any comments to the IHB before 15 January 2009.

7.3 Bilateral and Regional cooperation agreements, projects and capacity building initiatives in progress.

There were no comments. The Chair suggested deleting this agenda item from future meetings. This was agreed.

Outcome:

- **Action 8/14 – HCA Secretary** to delete the agenda item “*Bilateral and Regional cooperation agreements, projects and capacity building initiatives in progress*” from the agendas of future HCA meetings. This subject shall be considered within national reports.

7.4 Interaction with IOC

A. The IOC-IHO GEBCO Project

Docs: HCA8-07.4B [Undersea Feature Naming Status for Region ‘M’](#)

The Chair reminded that new terms of reference and rules of procedures for the GEBCO Guiding Committee (GCG) and its two sub-committees, i.e. Sub-Committee on Undersea Feature Names (SCUFN) and Technical Sub-Committee on Ocean Mapping (TSCOM), had been adopted by IHO and IOC in 2008. The process of seeking confirmation of membership was ongoing.

IHB (HUET) reported that new names in Antarctic waters were agreed at the 2008 meeting of SCUFN (SCUFN-21). They were included in HCA8-07.4B. Answering to a question by Australia (NAIRN), he explained the main differences between the SCAR and SCUFN Gazetteers, i.e the SCAR Gazetteer (CGA) is a composite gazetteer made of a collection of national gazetteers (which means the possibility of several names for the same feature) and covering land and sea, whereas the SCUFN Gazetteer is limited to the marine side and to one single name per feature (for safe navigation purpose); the SCUFN Gazetteer is included in the SCAR Gazetteer.

Outcome:

- The Commission noted the paper.

B. The IBCSO Project, an IOC-IHO-SCAR Project

Docs: HCA8-07.4C [IBCSO Report](#)

Dr Hans-Werner SCHENKE, as IBCSO Chair, gave a (silent) [presentation](#). The primary goal of IBCSO is the production of a high quality bathymetric chart of the Southern Ocean Marine geodata base for Antarctic sciences. A secondary goal is to combine this DB with existing spatial geophysical, geological, glaciological, oceanographic data sets, etc., forming the Southern Ocean Geographic Information System (SOGIS). IBCSO is a joint IOC-IHO-SCAR project. Recent contributions were received from Australia (Macquarie Island, Kerguelen Plateau), Germany (Weddell Sea, Cooperation Sea), Japan (Cosmonaut Sea), New Zealand (Ross Sea), UK (Scotia Sea, Bellinghausen Sea), USA (Bellinghausen Sea, Amundsen Sea), and Ukraine (Antarctic Peninsula)

Outcome:

- The Commission noted the report.

7.5 Hydrographic surveying, nautical charting, nautical publications and information status.

A. Presentation of National Reports. Experiences with new techniques and equipment. Project proposals to speed-up compilation and production.

Docs: HCA8-07.5A National Reports

The following HCA members briefly presented their national reports: [Argentina](#), [Australia](#), [Brazil \(PPT\)](#), [Chile \(PPT\)](#), Ecuador ([PPT](#)), [France](#), [Germany](#), India, [Italy](#), [Norway](#), [Peru](#), [UK](#), [Uruguay](#) and [USA](#). The following particulars were noted (see national reports for more details):

Argentina - Surveys have been planned in the Antarctic Peninsula by oceanographic vessel "ARA".

Australia - No surveying / charting activity was undertaken in Antarctica since HCA-7. Liaison has been with India in view of getting data for the production of INT 9130.

Brazil - Area of national chart BR 25210 was surveyed during the season 2007-08. A new polar ship "Almirante Maximiano" has been launched.

Chile - No INT chart or ENC was produced since HCA-7, only one national chart. A Multibeam system was being installed on Ice breaker "Oscar Viel". Cooperation took place with Ukraine (Lantaro). SHOA also cooperated with Brazil and Ecuador on the production of INT 9151 and 9152.

Ecuador - Cooperation took place with Chile on database issues.

France will produce shortly an overview ENC based on INT 901. Agreements for boundaries have to be reached with Australia and New Zealand because of overlaps of INT 901 with the SWPHC area.

India has presently no survey capabilities for Antarctica. Ships of opportunity could be an option for India.

Italy is awaiting data from Russia and USA-NGA to complete INT 9000. The former IMA has been replaced with a new structure known as IMSSEA and located in Genoa.

Norway referred to Projects MAREANO and NMDB. No surveys were conducted in Antarctica since HCA-7. An ENC based on INT 904 would be published by the end of 2008.

Peru – Area of interest is around Macchu Picchu Station. Peru progressed its part of INT 9125. Peruvian ENCs are distributed via IC-ENC.

South Africa (via HCA Chair) conveyed very good outcome from HCA Seminar at ATCM-31. Also, South Africa has offered to host the 9th HCA meeting in 2009.

UK conducted surveys in the Antarctic Peninsula (South Shetlands, Erebus and Terror Gulf).

Uruguay is happy to be a new HCA Member. Surveys were conducted in several areas (Antarctic Strait, Hope Bay, Maxwell Bay, and National Guard Bay). Cooperation took place with Venezuela.

USA/NGA has 38 charts plus 19 plans to cover Antarctica. The IHO DCDB (collocated with the US NGDC in Boulder, Co) is the official depository of all IHO MS bathymetric data. There may be a need for DCDB to invite MS via the IHB to contribute bathymetric data to DCDB.

The Chair further reported on a message received from Venezuela regarding:

- 1) Surveys they have conducted in Antarctica;
- 2) Their willingness to become an HCA Member.

Outcome:

- The Commission noted all national reports.

B. S-55 Status: hydrographic surveying, nautical charting and provision of MSI
 Docs: HCA8-07.5B [S-55 Status and GIS for Antarctica – Progress Report](#)

IHB (HUET) reported that the two pages of IHO Publication S-55, relating to Antarctica, had been updated by the IHB (Annex A to HCA8-07.5B). They needed however further updating, in particular on the status of MSI. He noted that information on hydrographic surveys reflected their poor status.

He also referred to the “GIS for Antarctica” under development at the IHB, and which will include various layers of meta-information pertaining to Hydrography, e.g. surveys, INT charts or ENC’s. Due to lack of resources and time, little progress was made since HCA-7. The situation should however improve with the secondment to the IHB of a GIS expert from Japan, effective from October 2008.

Outcome:

- The Commission noted the paper.

7.6 Nautical Publications and Information. IHO/HCA web page.

IHB (HUET) briefly described the list of nautical publications on Antarctica, which appears on the IHO website (HCA page). It currently includes information provided by Argentina, Australia, Chile, France, South Africa and UK. HCA members were encouraged to continue populating this list.

The Chair asked whether publications on training courses on Antarctic-related matters could be made available on this page. Argentina (VETERE) and Chile (Capt Christian SORO) expressed their willingness to provide such material. IAATO (BEGGS) indicated that IAATO Members would be interested in these courses.

The Chair briefly presented the new IHO Web site.

Following a suggestion from Argentina (VETERE) that HCA Members be alerted each time there is a correction or addition to the HCA page, The Chair stated that, in his view, this was not desirable as too many messages would come.

Outcome:

- **Action 8/15 – Argentina and Chile** to consider making available training material related to Antarctic Navigation courses to the IHB. **IHB** to post this information under the nautical publications section of HCA on the IHO website.

7.7 Capacity Building Issues

The Chair referred to the IHO Capacity Building Work programme for 2009, and outlined the procedures for submission, evaluation, and approval of proposals requesting support to CBC. He added it might be appropriate to nominate a CBC contact.

There followed a discussion on whether capacity building applies to HCA, e.g. phases 1 to 3. Australia (NAIRN) felt there was room for capacity building activities for HCA, e.g. in support of hydrographic surveys. The Chair, supported by Australia, suggested that participation of HCA in seminar on hydrography at COMNAP / IAATO conferences could be funded by CBC. UK (MONCRIEFF) commented this would mean widening the CBC scope. The possibility for CBC to support ships of opportunity activities, was also raised.

IOC (TRAVIN) reported that IOC, through cooperation with IHO/CBC, had trained more than 50 persons on multibeam use and data management.

8.- HCA SURVEY PROGRAMME WORKING GROUP

UK (SUTCLIFFE) gave presentations on the [status of hydrographic surveys by UK](#) in the Antarctic Peninsula area, and on an [UKHO 15 year chart production plan](#) for same area.

The Chair noted that the HCA Survey Programme WG (HSPWG), with UKHO as lead, had little activity in recent years, and that there was an urgent need to reactivate this WG. UK (SUTCLIFFE) indicated that he was willing to continue as Chair if there was no other volunteer. This was the case and the Commission endorsed his nomination as HSPWG Chair. UK (SUTCLIFFE) clarified that, as far as hydrographic surveying and nautical charting was concerned, UK was more particularly interested in the Antarctic Peninsula. Australia (NAIRN) expressed willingness to look at the other part of Antarctica, i.e. not the Peninsula.

Reminding that, in addition to UK, HSPWG membership included Australia, Chile, Germany, Greece, South Africa, COMNAP (observer) and IAATO (observer), The Chair suggested that the WG meet separately in order to review the existing terms of reference, which were approved by HCA-4 (Greece, 2004), and recommend any actions to be taken. This was agreed; Argentina, Spain and USA-NOAA offered to join the WG and participate in the *ad hoc* meeting. The resulting composition of HSPWG was therefore updated as follows: Argentina, Australia, Chile, Germany, Greece, South Africa, Spain, UK (Chair), USA-NOAA, COMNAP (observer) and IAATO (observer).

On the following day, HSPWG Chair (SUTCLIFFE) reported on the *ad hoc* meeting and proposed revised ToRs for the WG. This included changing the WG title to “*HCA Survey Prioritisation Working Group*”. After discussion, new ToRs for the HSPWG were agreed, as reflected in Annex G.

Australia (NAIRN) remarked that the Antarctic GIS will be a useful tool in support of HCA work to identify areas in need of surveys.

Outcome:

- The Commission endorsed the nomination of Mr. Ian SUTCLIFFE (UK) as Chairperson of the HCA Survey Programme Working Group (HSPWG).
- The Commission approved new terms of reference for HSPWG as contained in Annex G.
- **Action 8/16 – HSPWG [UK (lead), Australia, Chile, Argentina, Spain, Greece, Germany, USA-NOAA, COMNAP (obs.), and IAATO (obs.)]** to update the prioritized hydrographic survey plan (Annex H to Minutes of HCA-7), taking into consideration information contained in national reports to HCA-8, as well as discussions / outcomes of the *ad hoc* meeting of HSPWG during HCA-8. **HSPWG Lead** to then circulate the update plan to HCA members.

9.- ANY OTHER BUSINESS**9.1 Organization of Seminar to be delivered at COMNAP Council**

Following suggestion by COMNAP (LLUBERAS) and taking advantage of the success of the HCA Seminar at ATCM-31, it was agreed to organize a similar seminar on the occasion of the 2009 COMNAP Annual General Meeting (COMNAP-XXI, 3-7 August 2009, Punta Arenas, Chile). It was further agreed that the HCA Seminar at COMNAP-XXI would take place on 3 August 2009 from 09:00.

After discussion, it was agreed that the HCA Seminar at COMNAP-XXI would consist in three presentations, to be given by 1) the HCA Chair, 2) a UKHO representative, and 3) a SHOA representative.

To a suggestion from USA-NOAA (DANLEY) that a standard seminar lay-out be developed, which could be used at other opportunities, The Chair explained that this would be difficult as such seminars should be targeted to the audience at COMNAP, IAATO, ATCM etc...

Outcome:

- **Action 8/17 – HCA Chair (lead), UK and Chile**, in liaison with **COMNAP** to organize an HCA Seminar to raise awareness on the importance of hydrographic activities in Antarctica, as part of COMNAP Council in Punta Arenas, Chile, 03 August 2009, taking into consideration discussions held at HCA-8 on common interest to IHO-COMNAP.

9.2 US information paper and proposals

Docs: HCA8-INF8 [US information paper and proposals](#)

USA-NOAA (DANLEY) introduced the US paper containing proposals and recommendations to improve hydrography in Antarctica. This included the use of ships of opportunity. She wondered whether CBC could fund such activities (see also paragraph 7.7).

The Chair clarified that, as part of the 2008-12 IHO Work Programme, 3 seminars are to be delivered by HCA to ATCM, COMNAP, and IAATO. Regarding the use of ships of opportunity, he reminded that this issue was addressed by HCA as early as 2004 and that IAATO has offered to host hydrographers onboard their vessels since that date. However, this opportunity has never been taken.

Outcome:

- The Commission noted the paper.

9.3 50th anniversary of the Antarctic Treaty

The meeting discussed which HCA actions could be done on the occasion of the 50th Anniversary of the Antarctic Treaty to seek more support for hydrography. The Chair offered to prepare a follow up paper to that submitted in 2007 as a WP, in addition to the IHO report to ATCM-32. This was agreed, as well as that it should again be a WP, i.e. submitted by an HCA Member.

Outcome:

- **Action 8/18 – HCA Chair** to prepare a paper outlining the need for support for hydrography in Antarctica, to be submitted as a WP by an HCA Member to ATCM-32.

10.- TIME AND PLACE OF NEXT MEETING

The Chair reminded the offer by South Africa to host the 9th HCA meeting in Cape Town, which was gratefully and unanimously accepted. Date proposed was October 2009³.

Outcome:

- **Action 8/19 – HCA Chair and South Africa** to coordinate the dates and organization of the 9th HCA meeting in Cape Town, South Africa, in October 2009.

11.- APPROVAL OF ACTION LIST

The meeting reviewed the list of actions arising from HCA-8. The agreed list is at Annex E.

12.- CLOSURE

On behalf of the meeting, the Chair warmly thanked the Brazilian hosts for the outstanding arrangements for HCA-8. He also thanked all participants and observers for their excellent contribution to the meeting. He concluded that, in his view, the meeting was very successful. Capt GARCEZ (DHN) conveyed VAdm PALMER's apologies for being unable to be present and stated it had been an honour for DHN to host this meeting.

The meeting closed at 13:00 on 8 October 2008.

³ Dates for HCA-9 were subsequently agreed as follows: 12, 13 and 14 October 2009.

LIST OF ACRONYMS

AHS	Australian Hydrographic Service
AIS	Automatic Identification System (IMO)
AT	Antarctic Treaty
ATCM	Antarctic Treaty Consultative Meeting
ATS	Antarctic Treaty System
AWI	Alfred Wegener Institute (Germany)
BSH	Bundesamt für Seeschifffahrt und Hydrographie (Germany)
CBC	Capacity Building Committee (IHO)
CGA	Composite Gazetteer of Antarctica (SCAR)
COMNAP	Council of Managers of National Antarctic Programmes
DCDB	Data Centre for Digital Bathymetry (IHO)
DHN	Diretoria de Hidrografia e Navegação (Brazil)
DNO	Department of Navigation and Oceanography (Russia)
ENC	Electronic Navigational Chart
GEBCO	General Bathymetric Chart of the Oceans (IHO-IOC)
GGC	GEBCO Guiding Committee
GIS	Geographic Information System
HCA	Hydrographic Committee on Antarctica (IHO)
HO	Hydrographic Office
HSPWG	HCA Survey Prioritisation Working Group (HCA)
IAATO	International Association of Antarctic Tour Operators
IBCSO	International Bathymetric Chart of the Southern Ocean (IOC-IHO-SCAR)
IHB	International Hydrographic Bureau
IHO	International Hydrographic Organization
IIM	Istituto Idrografico Della Marina (Italy)
IMO	International Maritime Organization

INT	INTernational (Charts) (IHO)
IOC	Intergovernmental Oceanographic Commission (UNESCO)
IP	Information Paper (ATCM)
IPY	International Polar Year (2007-2008)
ISPWG	IHO Strategic Plan Working Group
JHOD	Japan Hydrographic and Oceanographic Department
MAREANO	Norwegian programme to map depth and topography, sediment composition, contaminants, biotopes and habitats in Norwegian waters.
MS	Member State
NGA	National Geospatial-Intelligence Agency (USA)
NGDC	National Geophysical Data Center (USA)
NMDB	Norwegian Marine Data Base
NOAA	National Oceanographic and Atmospheric Administration (USA)
PI	Performance Indicator
S-55	Publication "Status of Hydrographic Surveying and Nautical Charting" (IHO)
SAR	Search and Rescue
SCAR	Scientific Committee on Antarctic Research
SCUFN	Sub-Committee on Undersea Feature Names (GEBCO)
SHOA	Servicio de Hidrografia y Oceanografia de la Armada (Chile)
SOGIS	Southern Ocean Geographic Information System (IBCSO)
SOLAS	Safety Of Life At Sea convention (IMO)
SPRS	Ship Position Reporting System (COMNAP)
ToR	Terms of Reference
TSCOM	Technical Sub-Committee on Ocean Mapping (GEBCO)
UKHO	United Kingdom Hydrographic Office
WG	Working Group
WP	Working Paper (ATCM)

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IOC	Dr Dmitri TRAVIN	d.travin@unesco.org

LIST OF DOCUMENTS

Document	Content	Responsible
HCA8-01A rev.5	List of Documents	Chairman
HCA8-01B rev.1	List of Participants	Chairman
HCA8-02A rev.1	HCA Membership and Observers List	Chairman
HCA8-03A rev.2	Agenda	Chairman
HCA8-03B	Annotated Agenda	Chairman
HCA8-03C	Time Table	Chairman
HCA8-05A rev.1	Status of Actions List from the 7 th HCA Meeting	Chairman
HCA8-06.2A	COMNAP Report	COMNAP
HCA8-07.1A rev.1	INT Chart Scheme and Production Status for Region 'M'	Secretary
HCA8-07.1B	INT Charts in Progress or Not Produced	Secretary
HCA8-07.1C	Layout of INT Production Status for Region 'M'	Secretary
HCA8-07.2A rev.1	ENC Production Status in Antarctica	Secretary
HCA8-07.2B	ENC Scheme for Medium-Scales in Antarctica	Secretary
HCA8-07.4B	Undersea Feature Naming Status for Region 'M'	Secretary
HCA8-07.4C	IBCSO Report	IBCSO
HCA8-07.5Aa	National Report Norway	HCA Member States
HCA8-07.5Ab rev.1	National Report Brazil	
HCA8-07.5Ac	National Report South Africa	
HCA8-07.5Ad	National Report France	
HCA8-07.5Ae	National Report Australia	
HCA8-07.5Af	National Report UK	
HCA8-07.5Ag rev.1	National Report Argentina	
HCA8-07.5Ah	National Report Germany	
HCA8-07.5Ai	National Report Chile	
HCA8-07.5Aj	National Report Uruguay	
HCA8-07.5Ak	National Report Peru	
HCA8-07.5Al	National Report Italy	
HCA8-07.5Am	National Report USA-NGA	
HCA8-07.5B	S-55 Status and GIS for Antarctica – Progress Report	Secretary
INFORMATION DOCUMENTS		
HCA8-INF1 rev.1	Current HCA Statutes	Secretary
HCA8-INF2	Minutes of the 7 th HCA Meeting, Buenos Aires, Argentina, 2007	Secretary
HCA8-INF3	IHO Report submitted to the ATCM-31	Secretary
HCA8-INF4	IHB Report on Seminar delivered at ATCM-31	Chairman
HCA8-INF5	IAATO Report 2007-2008 to ATCM-31	IAATO
HCA8-INF6	IAATO Overview of Antarctic Tourism 2007-2008 Antarctic Season	IAATO

AGENDA

- 1.- **Opening.**

Docs:	HCA8-01A	<i>List of Documents</i>
	HCA8-01B	<i>List of Participants</i>

- 2.- **HCA Membership Status.**

Docs:	HCA8-02A	<i>HCA Membership and Observers List</i>
	HCA8-INF1	<i>Current HCA Statutes</i>

- 3.- **Approval of the Agenda.**

Docs:	HCA8-03A	<i>Agenda</i>
	HCA8-03B	<i>Annotated Agenda</i>
	HCA8-03C	<i>Time Table</i>

- 4.- **Election of Vice-Chairman**

- 5.- **Status of List of Actions resulting from the 7th HCA Meeting.**

Docs:	HCA8-05A	<i>Status of Actions List from the 7th HCA Meeting</i>
	HCA8-INF2	<i>Minutes of the 7th HCA Meeting, Buenos Aires, Argentina, 2007</i>
	HCA8-INF3	<i>IHO Report submitted to ATCM-31</i>
	HCA8-INF4	<i>IHB Report on Seminar delivered at ATCM-31</i>

- 6.- **Relevant International Organizations' Report.**
 - 6.1 ATCM

 - 6.2 COMNAP

Docs:	HCA8-06.2A	<i>COMNAP Report</i>
	HCA8-INF7	<i>Report on Workshop Towards Improved Search and Rescue Coordination and Response in the Antarctic, Valparaiso, Chile, 12-14 August 2008</i>

 - 6.3 IMO

 - 6.4 IAATO

Docs:	HCA8-INF5	<i>IAATO Report 2007-2008 to ATCM-31</i>
	HCA8-INF6	<i>IAATO Overview of Antarctic Tourism 2007-2008 Antarctic Season</i>

 - 6.5 SCAR

 - 6.6 IOC

- 7.- **HCA Activities in the light of the IHO Work Program:**
 - 7.1 INT chart scheme: progress made since last meeting and actual charting status; new requirements and modifications proposed to the scheme (M-11).

Docs:	HCA8-07.1A	<i>INT Chart Scheme and Production Status for Region 'M'</i>
	HCA8-07.1B	<i>INT Charts in Progress or Not Produced</i>
	HCA8-07.1C	<i>Layout of INT Production Status for Region 'M'</i>

 - 7.5 ENC scheme and production status

Doc:	HCA8-07.2A	<i>ENC Production Status in Antarctica</i>
	HCA8-07.2B	<i>ENC Scheme for Medium-Scales in Antarctica</i>

7.6 Bilateral and Regional cooperation agreements, projects and capacity building initiatives in progress.

7.7 Interaction with IOC:

- The IOC/IHO GEBCO Project

Docs: HCA8-07.4B *Undersea Feature Naming Status for Region 'M'*

- The IBCSO Project, an IOC/IHO/SCAR Project.

Docs: HCA8-07.4C *IBCSO Report*

7.8 Hydrographic surveying, nautical charting, nautical publications and information status.

- Presentation of National Reports. Experiences with new techniques and equipment. Project proposals to speed-up compilation and production.

- S-55 Status: hydrographic surveying, nautical charting and provision of MSI

Docs: HCA8-07.5A *National Reports*

HCA8-07.5B *S-55 Status and GIS for Antarctica – Progress Report*

7.9 Nautical Publications and Information. IHO/HCA web page.

7.10 Capacity Building Issues

8. HCA Survey Programme Working Group

9.- Any other business.

9.1 Organization of Seminar to be delivered at COMNAP Council

9.2 US information paper and proposals

Docs: HCA8-INF8 *US information paper and proposals*

9.3 50th anniversary of the Antarctic Treaty

10.- Time and Place of next Meeting

11.- Approval of Action List.

12.- Closure

ACTIONS RESULTING FROM THE 8th HCA MEETING

Agenda Item	Action	Details	Responsible & Deadline
1	8/1	Provide the Secretary with national reports at least one month in advance of HCA meetings.	HCA Members
2	8/2	Remove the "Pending Confirmation Membership" section from the HCA Membership and Observers List.	HCA Secretary
5	8/3	Stress the importance of SOLAS V Reg. 9 (requiring contracting governments to arrange for the provision of hydrographic services) for safety of life at sea and protection of the marine environment in Antarctica, in the IHO report to ATCM-32.	HCA Chair
5	8/4	Write to the Director of DNO, Russia, requesting that, should a replacement of Capt. Fomin be nominated by DNO to represent HCA matters within the IBCSO Editorial Board, the IHB must be informed. DNO shall ensure that its nominated expert will attend HCA meetings.	HCA Chair and Russia
5	8/5	Update the draft HCA Performance Indicators Table (Annex F to Minutes of HCA-6) considering the outcomes of ISPWG and discussions held at HCA-8. Populate the proposed table and submit it to the 9 th HCA meeting.	IHB
5	8/6	Brief national delegations to ATCM-32 on HCA activities and, based on ATCM-31 Resolution 5, seek for higher priority for hydrographic surveying and production of nautical charts in their national programmes.	HCA Members
6.2	8/7	Review and update the existing guidelines to conduct hydrographic surveys using ships of opportunity, i.e. HCA document " <i>Collection and Rendering of Hydrographic Data</i> ", taking Doc. HCA8-INF8 into consideration. Submit new text to the Chairman for distribution to COMNAP at the 2009 HCA Seminar.	USA (lead) and UK, in liaison with COMNAP
6.6	8/8	Brief national oceanographic committees and delegations to IOC, to support the IBCSO project.	HCA Members
7.1	8/9	Write a letter to the Director of JHOD, asking for Japan's intention regarding INT charts 9045, 9046 and 9047.	HCA Chair
7.1	8/10	Look for a solution for the provision of NGA's bathymetric data to Italy, in order for Italy to produce INT chart 9000.	USA-NOAA
7.1	8/11	Update the document showing Charts in Progress or not Produced (Doc. HCA8-7.1B), to be annexed to minutes of the 8 th HCA meeting.	HCA Secretary
7.1	8/12	Review diagram on page 15 of Doc. HCA8-07.1A rev.1, showing two proposed new INT charts based on Brazilian national charts 25119 and 25120, and provide any comments to the IHB before 15 January 2009. Upon approval, IHB to inform Brazil and update INT Chart scheme for Region M.	HCA Members and IHB
7.2	8/13	Review the proposed medium scale ENC scheme, as in Doc. HCA8-07.2B, and provide any comments to the IHB before 15 January 2009.	HCA Members

Agenda Item	Action	Details	Responsible & Deadline
7.3	8/14	Delete the agenda item " <i>Bilateral and Regional cooperation agreements, projects and capacity building initiatives in progress</i> " from the agendas of future HCA meetings. This subject shall be considered within national reports.	HCA Secretary
7.6	8/15	Consider making available training material related to Antarctic Navigation courses to the IHB. IHB to post this information under the nautical publications section of HCA on the IHO website.	Argentina, Chile and IHB
8	8/16	Update the prioritized hydrographic survey plan (Annex H to Minutes of HCA-7), taking into consideration information contained in national reports to HCA-8, as well as discussions / outcomes of the ad hoc meeting of HSPWG during HCA-8. Circulate the update plan to HCA members.	HSPWG [UK (lead), AU, CL, AR, ES, GR, DE, US, COMNAP (obs.), IAATO (obs.)]
9.1	8/17	Organize an HCA Seminar to raise awareness on the importance of hydrographic activities in Antarctica, as part of COMNAP Council in Punta Arenas, Chile, 03 August 2009, taking into consideration discussions held at HCA-8 on common interest IHO-COMNAP.	HCA Chair (lead), UK and Chile, in liaison with COMNAP
9.3	8/18	Prepare a paper outlining the need for support for hydrography in Antarctica, to be submitted as a WP by an HCA Member to ATCM-32.	HCA Chair
10	8/19	Coordinate the dates and organization of the 9th HCA Meeting in Cape Town, South Africa, in October 2009.	HCA Chair and South Africa

31st Antarctic Treaty Consultative Meeting (ATCM), Kyiv, Ukraine, 01-13 June 2008

Resolution 5 (2008)

**IMPROVING HYDROGRAPHIC SURVEYING AND CHARTING TO SUPPORT SAFETY OF NAVIGATION
IN THE ANTARCTIC REGION**

The Representatives,

Considering that reliable hydrographic data and nautical charts are essential to safe maritime operations;

Noting the increase in marine traffic, particularly tourist vessels, in the Antarctic region;

Concerned about the increased risk of harm to ships, persons and the environment in inadequately charted waters in the region;

Noting that the collection of accurate survey data will improve navigational safety and support scientific research;

Recognising the role of the International Hydrographic Organization Hydrographic Commission on Antarctica (HCA) in the coordination of hydrographic charting in the Antarctic region and the value of cooperating with relevant expert bodies;

Recommend that their Governments:

1. cooperate with the HCA to improve hydrographic surveying and charting in the Antarctic region, including working to
 - a. clarify HCA requirements for the collection of hydrographic data of sufficient quality for use in the development of electronic navigation charts, and
 - b. identify priority areas for the collection of additional hydrographic and bathymetric data;
2. encourage their national programme vessels and other vessels, as appropriate, to collect hydrographic and bathymetric data on all Antarctic voyages, as practicable;
3. forward any Antarctic hydrographic and bathymetric data collected to the relevant international chart producer for charting action; and
4. endeavour to find additional resources towards improving hydrographic surveying and charting in the Antarctic region.

HCA SURVEY PRIORITISATION WORKING GROUP

Revised Terms of Reference *(as agreed by the 8th HCA meeting)*

Preamble

Recognising that accurate and up to date navigational products are essential to support safe maritime activities,

Acknowledging that the HCA recommends that mariners limit their navigation to areas where suitable navigational products exist,

Recognising the limited resources available for hydrographic surveying and charting and the limited weather window for conducting Antarctic survey operations

Acknowledging the increasing levels of Antarctic maritime activities,

The HCA Survey Prioritisation Working Group.....

Aims

To create and maintain a prioritized survey plan for the Antarctic region to support safety of life and the protection of the environment

Purpose

To support improvements to the standard of Antarctic charting where it is needed most.

Outputs

1. A list of areas of significance identified and prioritized based on the themes:
 - a. Sensitivity of the Environment
 - b. Needs of scientific research
 - c. Demands of the tourism industry
 - c. Other identified maritime activities
2. Updated prioritised statement of HCA survey requirements
3. Updated "Guidelines for Collection and Rendering of Hydrographic Data for non-survey vessels"

Method

4. Record and list areas of significance and present this in a graphical format.
5. Refine and maintain the previously identified main shipping routes (MSR) and branch corridors defined by usage categories;
 - a. frequent
 - b. regular

- c. infrequent

Considerations

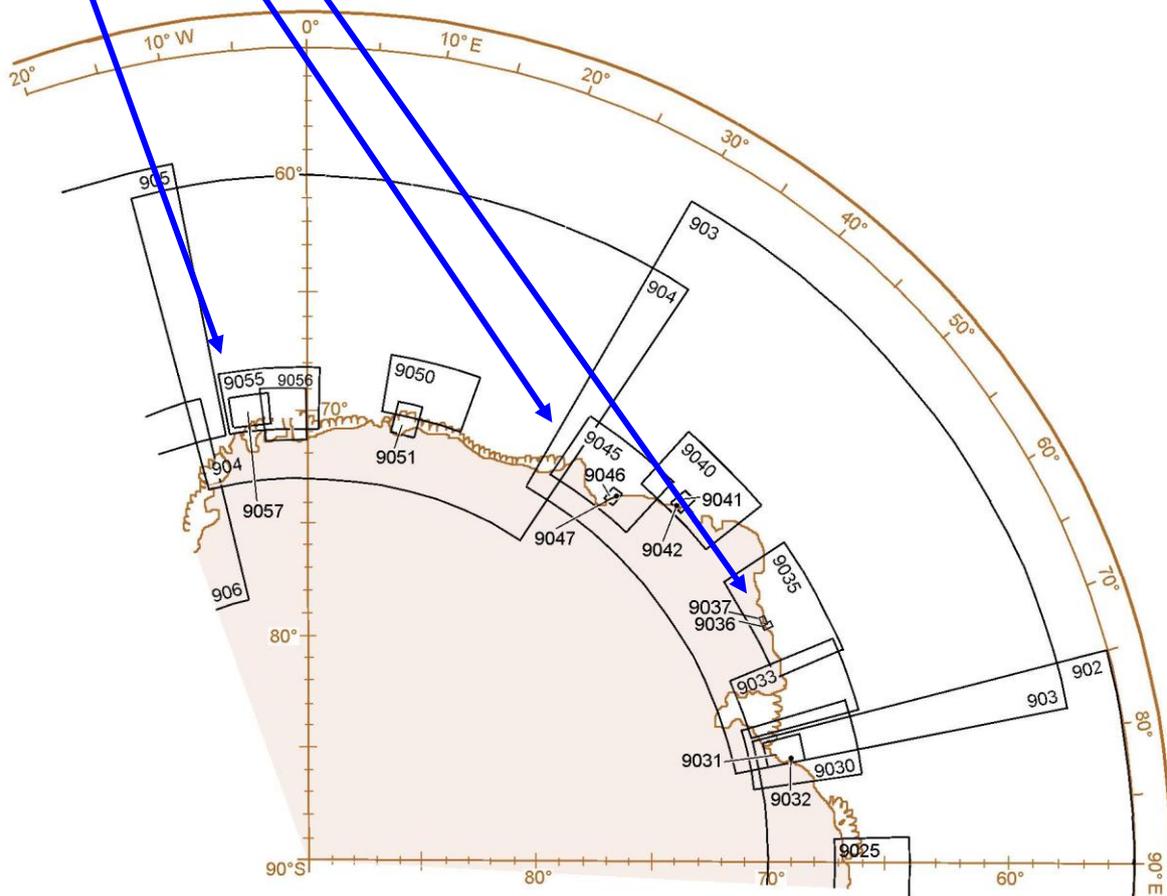
1. The following factors will be considered:
 - a. The frequency of vessel visits/transits
 - b. The status (ZOC) of the current survey
 - c. The currency of the charting with respect to whether the existing survey data is incorporated
 - d. Draught of shipping
 - e. Number of people onboard
 - f. Density of Traffic
 - g. Type of Vessels
 - h. Hydrographic conditions; tides, currents
 - i. Climatological conditions: sea ice, winds

2. For convenience of analysis the Antarctic should be considered in regions as follows:
 - a. Region A - Western Region (Antarctic Peninsular) 0-180 west
 - b. Region B – Eastern Region 0 – 180 East

INT CHARTS IN PROGRESS OR NOT PRODUCED
(December 2008)

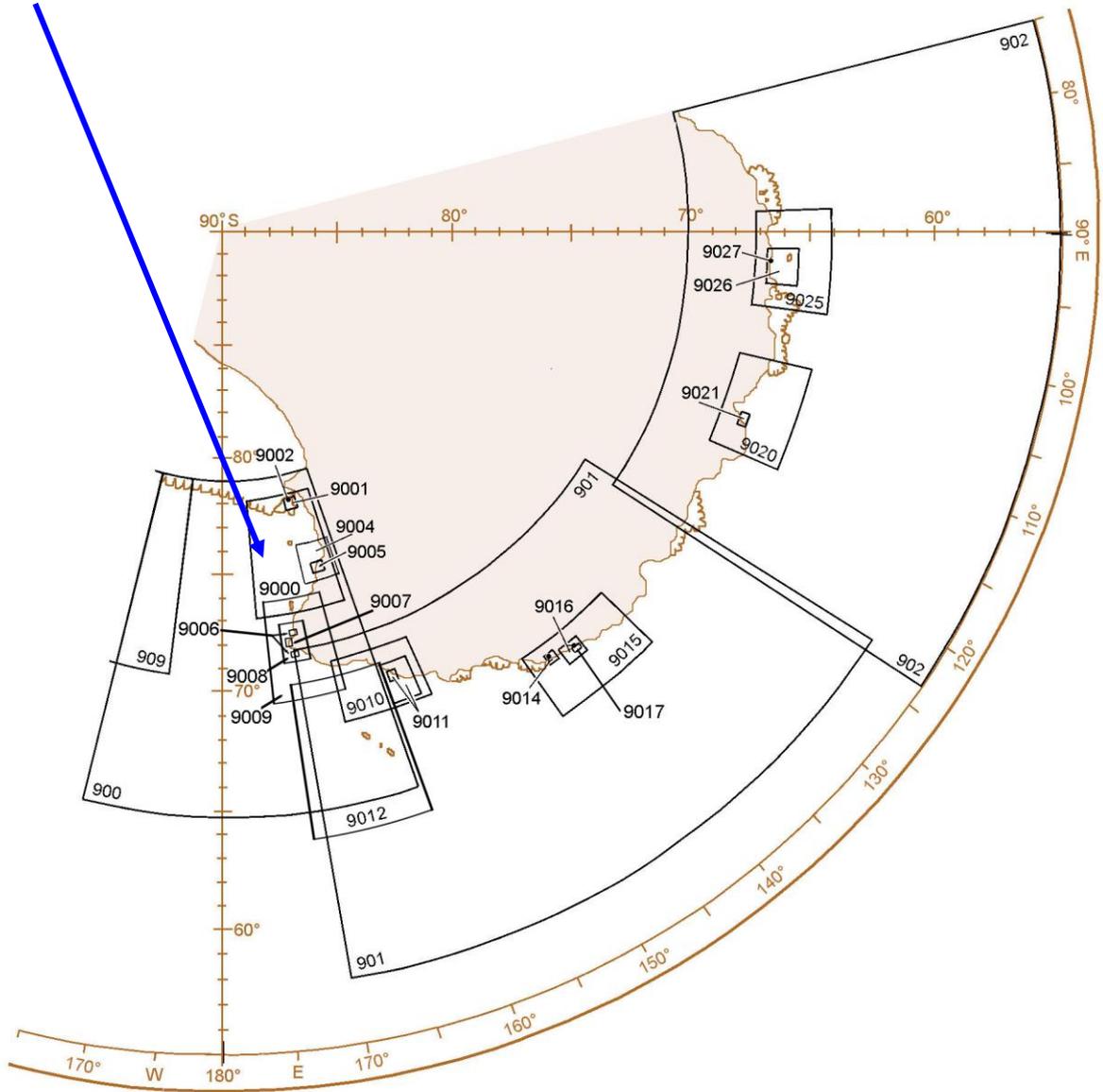
Lazarev Sea to Cooperation Sea (20°W – 90°E)

INT No.	Scale 1:	Date	Producer
9037	25 000	Proj. 2009	AU
9045	500 000		JP
9046	100 000		JP
9047	10 000		JP
9055	500 000	Proj. 2008	DE
9057	200 000	Proj. 2008	DE



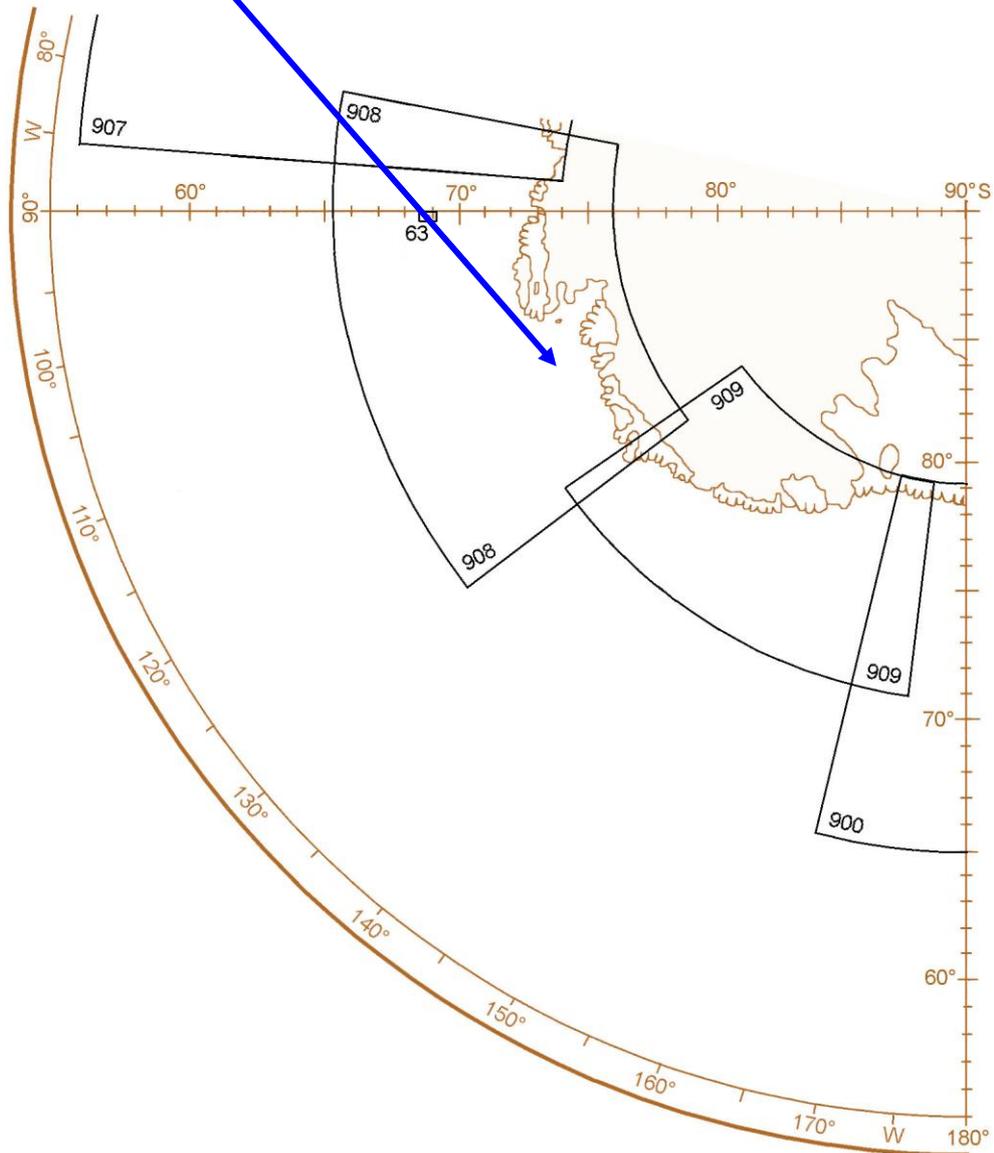
Davies Sea to Ross Sea (75°E – 165°W)

INT No.	Scale 1:	Date	Producer
9000	500 000		IT



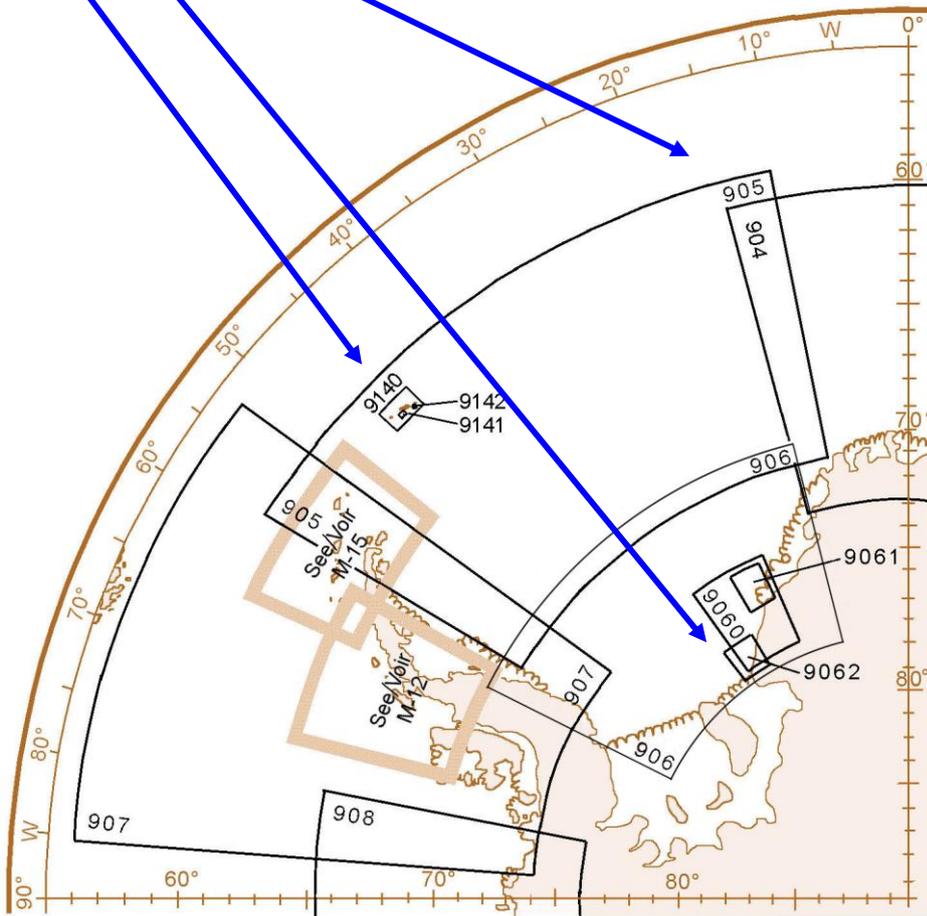
Ross Sea to Bellingshausen Sea (180°W – 80°W)

INT No.	Scale 1:	Date	Producer
908	2 000 000	Not before 2015	GB
909	2 000 000		NO



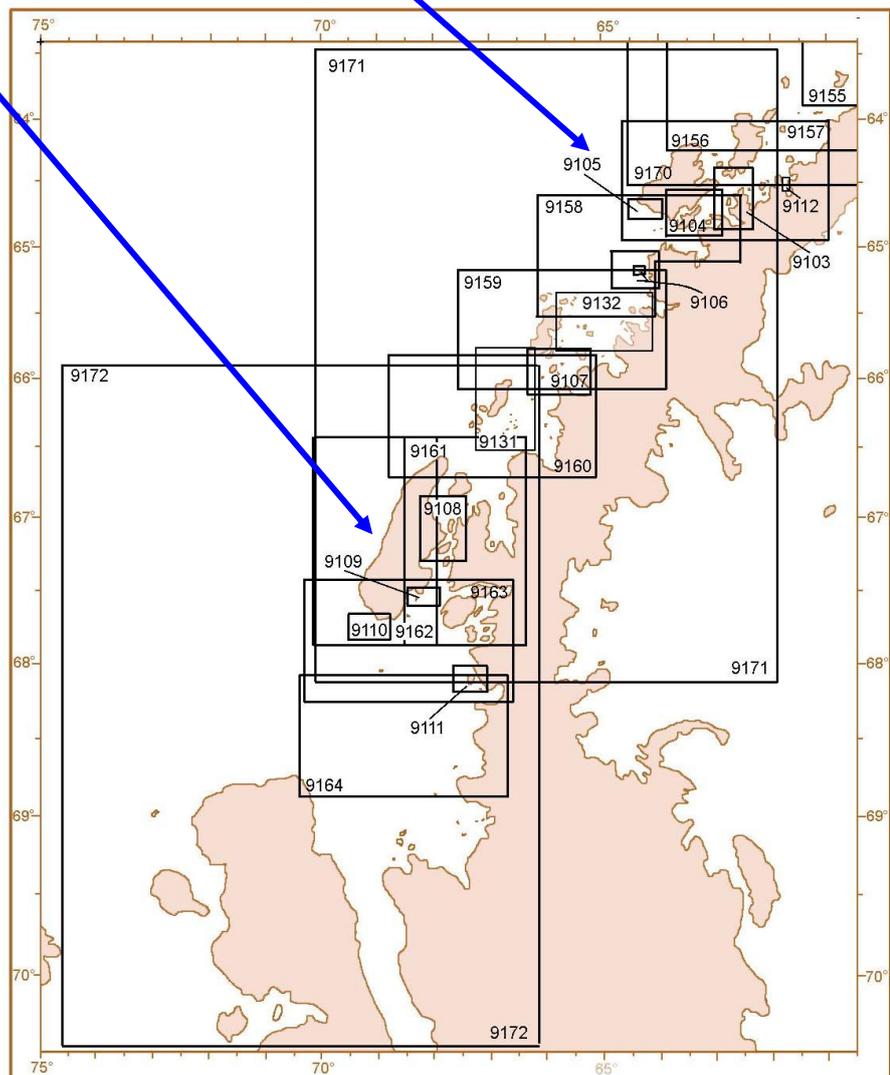
Bellingshausen Sea to Weddell Sea (90°W – 0°W)

INT No.	Scale 1:	Date	Producer
905	2 000 000		DE
9062	200 000		US
9140	150 000	Not before 2015	AR



Antarctic Peninsula, Graham Land – Palmer Land

INT No.	Scale 1:	Date	Producer
9103	50 000		CL
9104	50 000		CL
9105	25 000		US
9107	50 000	Not before 2015	GB
9108	50 000		CL
9110	50 000		CL
9111	25 000	Proj 2012	AR
9131	75 000		GB ?
9132	75 000		GB ?
9157	150 000		CL
9159	150 000	Proj. 2011	GB
9160	150 000	Proj. 2013	GB
9161	150 000		CL
9162	150 000	Proj. 2010	CL
9163	150 000	Proj. 2009	GB
9164	150 000	Proj 2010	CL
9171	500 000	Not before 2015	GB



Antarctic Peninsula, Graham Land – South Shetlands Islands

INT No.	Scale 1:	Date	Producer
9100	25 000		AR
9101	10 000	Proj. 2012	AR
9112	Various	Not before 2015	GB
9113	Various		GB
9114	Various		GB
9115	50 000		AR
9116	Various		GB ?
9125	40 000	Proj. 2010	BR & PE
9130	75 000		GB ?
9151	200 000	Proj. 2012	CL & BR
9152	200 000	Proj. 2012	CL & BR
9156	150 000	Proj. 2009	AR

