



Dossier du BHI No. S3/8151/HSSC

LETTRE CIRCULAIRE 37/2009
15 juin 2009

**1ère REUNION DU COMITE DES SERVICES
ET DES NORMES HYDROGRAPHIQUES DE L'OHI (HSSC),
22-24 octobre 2009, Singapour**

Références :

- 1) Lettre circulaire du BHI 89/2008 du 13 novembre : *Coordination régionale des paramètres de compilation des ENC – recommandation du modèle de la CHMB*
- 2) Lettre circulaire du BHI 90/2008 du 13 novembre : *Groupe d'étude français sur la normalisation de la longueur des lignes de côte*
- 3) Lettre circulaire du BHI 91/2008 du 13 Novembre : *Invitation à participer au groupe de correspondance de la RTCA sur la certification de la chaîne de fourniture des données*
- 4) Lettre circulaire du BHI 92/2008 du 14 novembre : *Groupe de travail du CHRIS sur la mise à jour des ENC*
- 5) Lettre circulaire du BHI 93/2008 du 17 novembre : *Examen des résolutions techniques de l'OHI par le Comité sur les besoins hydrographiques pour les systèmes d'information (CHRIS)*
- 6) Lettre circulaire du BHI 94/2008 du 18 novembre : *Structure de l'OHI effective à compter du 1^{er} janvier 2009*
- 7) Lettre circulaire du BHI 106/2008 du 15 décembre : *20^e Réunion du CHRIS, Niterói, Rio de Janeiro, Brésil, 3-7 novembre 2008*
- 8) Lettre circulaire du BHI 5/2009 du 15 janvier : *Publication S-64 de L'OHI « ECDIS test data sets » Nouvelle Edition 1.1, décembre 2008*
- 9) Lettre circulaire du BHI 11/2009 du 17 février : *Examen des résolutions techniques de l'OHI par le comité sur les besoins hydrographiques pour les systèmes d'information (CHRIS)(groupe 1 de 4)*
- 10) Lettre circulaire du BHI 12/2009 du 17 février : *Examen des résolutions techniques de l'OHI par le comité sur les besoins hydrographiques pour les systèmes d'information (CHRIS)(groupe 2 de 4)*
- 11) Lettre circulaire du BHI 21/2009 du 31 mars : *3^e conférence et exposition internationale sur les ECDIS, Singapour, 19-21 octobre 2009*
- 12) Lettre circulaire du BHI 24/2009 du 14 avril : *accréditation du groupe d'harmonisation des ENC intérieures (IEHG) en tant qu'organisation internationale non gouvernementale observatrice à l'OHI*
- 13) Lettre circulaire du BHI 29/2009 du 28 avril : *Examen des résolutions techniques de l'OHI par le comité sur les besoins hydrographiques pour les systèmes d'information (CHRIS) (groupe 2 de 4)*
- 14) Lettre circulaire du BHI 30/2009 du 29 avril : *Examen des résolutions techniques de l'OHI par le comité sur les besoins hydrographiques pour les systèmes d'information (CHRIS)(groupe 3 de 4)*
- 15) Lettre circulaire du BHI 32/2009 du 12 mai : *Supplément N° 2 à la Publication S-57 de l'OHI – Annonce de publication de document*
- 16) Lettre circulaire du BHI 34/2009 du 19 mai : *S-52- Spécifications pour le contenu cartographique et les modalités d'affichage des ECDIS - Projet de 6^e Edition – Demande de rétroactions de la part des parties prenantes*

Madame la Directrice, Monsieur le Directeur,

1 La 1^{ère} réunion du Comité des services et des normes hydrographiques (HSSC-1) aura lieu du **22 au 24 octobre 2009, à Singapour**. La réunion HSSC-1 sera tenue immédiatement après la 3^e conférence internationale sur les ECDIS (voir www.ecdis09.com) qui se déroulera du 19 au 21 octobre, au même endroit. Une réunion du groupe directeur du HSSC, comprenant tous les présidents des GT du HSSC se tiendra dans l'après-midi du 21 octobre.

2 Le HSSC a été créé le 1^{er} janvier 2009 dans le cadre de la nouvelle structure des comités de l'OHI. Le HSSC a en effet accepté un rôle élargi qui était auparavant dévolu au Comité sur les besoins hydrographiques pour les systèmes d'information (CHRIS). La 20^e réunion finale du CHRIS s'est déroulée en octobre 2008. Cette lettre donne des informations sur la situation actuelle des mesures qui découlent de la 20^e réunion du CHRIS (Niteroi, RJ, Brésil, 3-7 novembre 2008) et propose par ailleurs un projet d'ordre du jour pour la HSSC-1.

3 Lieu et hébergement. La réunion HSSC-1 et la conférence sur les ECDIS se tiendront au Regent Hotel (voir www.regenthotels.com/singapore). Les renseignements sur l'hôtel et un formulaire d'inscription à la réunion HSSC-1 ont été mis en ligne à la section HSSC du site web de l'OHI (www.iho.int → Committees & WGs → HSSC). Ils sont également fournis dans les **Annexes A et B**, respectivement. Les participants doivent faire leurs réservations d'hôtels, eux-mêmes, dans les meilleurs délais. Les formulaires d'inscription à la réunion HSSC-1 doivent être remis avant le **30 août 2009**.

4 Mesures découlant de la 20^e réunion du CHRIS. Le statut des actions découlant de la 20^e réunion du CHRIS est résumé en **Annexe C**. Certaines mesures sont toujours en suspens. Les personnes chargées d'appliquer les mesures non encore prises, sont invitées à bien vouloir mener les actions nécessaires et à rendre compte de l'évolution de la situation au secrétaire du HSSC, mhuet@ihb.mc, dans les meilleurs délais.

5 Ordre du jour provisoire de la réunion HSSC-1. L'ordre du jour provisoire de la réunion HSSC-1 est communiqué en **Annexe D**. Les documents associés, lorsqu'ils sont connus, ont été cités dans la liste. Il est demandé aux Etats membres de bien vouloir examiner le projet d'ordre du jour et de fournir, au Secrétaire, des commentaires ou propositions sur de nouveaux points à inscrire à l'ordre du jour, avec copie au président vaughan.nail@UKHO.gov.uk, **avant le 31 juillet 2009**. Un projet d'ordre du jour révisé sera ensuite préparé et publié sur le site web de l'OHI.

6 Date limite de soumission des documents pour la réunion HSSC-1. Les documents qui doivent être examinés lors de la HSSC-1 devront être soumis au Secrétaire, conformément aux instructions pour la soumission des rapports devant être examinés par le HSSC.

7 Tous les documents seront introduits sur le site web de l'OHI au fur et à mesure qu'ils seront reçus.

8

	Date limite de soumission
Documents à l'appui des points de l'ordre du jour (incluant les rapports des présidents des GT et les propositions de nouveaux points du programme de travail)	Avant le 3 septembre 2009 (7 semaines avant le début de la réunion)
Documents fournissant les commentaires ou les amendements proposés aux propositions contenues dans les documents de réunion <u>Ces soumissions additionnelles devraient contenir au maximum 4 pages</u>	Pas plus tard que le 1^{er} octobre 2009 (3 semaines avant le début de la réunion)

Les documents reçus après le 1^{er} octobre 2009 seront traités en tant que documents d'information uniquement.

8 La liste actuelle des membres et observateurs du HSSC est communiquée en tant qu'Annexe E. Toutes les modifications proposées devront être transmises au Secrétaire dans les meilleurs délais.

9 Au nom du HSSC et du BHI, le Comité de direction souhaite remercier l'Autorité maritime et portuaire de Singapour qui a abrité la HSSC-1.

Veuillez agréer, Madame la Directrice, Monsieur le Directeur, l'assurance de ma haute considération,

Pour le comité de direction,



Capitaine de vaisseau Robert WARD
Directeur

Copie : Organisations internationales non gouvernementales accréditées
Présidents des GT du HSSC

Annexes (anglais uniquement)

- A. Hotel Accommodation
- B. HSSC-1 Registration Form
- C. List of Actions from CHRIS-20 and Status Report
- D. Draft Agenda and Timetable
- E. HSSC - List of Members and Observers

**1st IHO-HSSC Meeting
The Regent Hotel, Singapore, 22-24 October 2009**

HOTEL ACCOMMODATION

[Form to be sent asap to the selected hotel. See websites below. Please indicate "for HSSC-1" on your sending.]

Hotel choice	Website	Room Type	Single / Twin
The Regent Hotel ⁽¹⁾	www.regenthotels.com/singapore	Deluxe	S\$ 265 ++
Hotel Grand Central ⁽²⁾	www.grandcentral.com.sg	Premium	S\$ 170 ++
Garden Hotel ⁽²⁾	www.gardenhotel.com.sg	Deluxe	S\$ 120 ++

⁽¹⁾ Place of HSSC-1

⁽²⁾ Supporting Hotel

Note: The boxes will expand as you type your answers

Guest Particulars

Name (Prof. / Dr. / Capt. / Mr. / Ms.)

**Designation
Organization**

Mailing Address

Tel

Fax

Email

Reservation details

Hotel

Type of Room : Single / Twin

No. of Nights

**Check-in Date
Check-out Date**

**Arrival Flight / Time
Departure Flight / Time**

Payment Declaration

I wish to pay by

Annex

Visa

Master

Card No.

Expiry Date

Cardholder's Name

Signature

Date

Terms and Conditions

1. All reservations will be subjected to availability and on a first-come-first-served basis.
2. Rates quoted are subjected to 7% Goods and Services Tax and 10% Service Charge.
3. Cancellations must be made in writing. No cancellation charge will be levied for cancellation, made before 1 September 2009. For cancellations after 1 September 2009 charge for one room-night will be imposed.

1st IHO-HSSC Meeting
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REGISTRATION FORM

*[Please send this via e-mail to "Ms Petrina Tay" <Petrina_Tay@mpa.gov.sg>
copy to "Michel Huet" <mhuet@ihb.mc> by 30 August 2009]*

Note: The boxes will expand as you type your answers

**Member State /
Organization**

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1. Contact Details:

Head or Member
Rank of Title
Last Name (Family Name)*
First Name
Position / Job title / Role
Nationality
Telephone
E-mail
Accompanying person(s)

* Underline the name generally used in case of doubles surnames as in Spanish-speaking countries

2. Travel Details (for administrative purposes only; participants are expected to make their own travel arrangements):

Your Arrival at Singapore
International Airport

Date	
Flight Number	
Airline	
Arrival Time	

Your Departure from Singapore
International Airport

Date	
Flight Number	
Airline	
Departure Time	

3. Hotel Information (for administrative purposes only; participants are expected to make their own accommodation arrangements)

	Yes or No?
Selected Hotel	
1. The Regent Hotel	
2. Hotel Grand Central	
3. Garden Hotel	
4. Other	Name of other hotel

Comments
Date

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LIST OF ACTIONS FROM CHRIS-20 AND STATUS REPORT

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	STATUS (Jun. 09)
4.2	ECDIS software maintenance	20/1	IHB to submit a supporting paper to NAV55 on the relevance of software maintenance in ECDIS (based on the previous submission to NAV53)	Not done. Noting IHO paper already submitted to earlier meetings, IHB advised to make verbal interventions at NAV55 as required and to participate in any drafting groups.
4.3	Use of ISO standards	20/2	IHB to seek confirmation from ISO that relevant ISO standards can be used in relation to S-100 without copyright restrictions.	In progress. ISO require an estimate of the amount of ISO copyright material contained in S-100. This information is not available until S-100 documentation is approved.
4.5	IEC 62376 & ECS standards	20/3	IHB to invite MS to consider contacting their IEC representatives and providing input to the consideration / acceptance of IEC 62376 - ECS Standard.	The closing date for final voting on IEC62376 was 5 December 2008. This was too soon after CHRIS-20 for IHB to release a CL and expect HOs to react and provide any meaningful input to their respective standards organizations. Therefore a CL was not issued.
4.6	Length of coastline	20/4	France to further study the feasibility of a standardised approach to the determination of the length of coastlines and report to HSSC-1.	In progress
4.6	Length of coastline	20/5	IHB to invite MS to participate in the study led by France on the determination of the length of coastlines.	Done: CL 90/08.
5.1	Dynamic tides in ECDIS	20/6	TSMAD in consultation with TWLWG, CSMWG and other relevant HO bodies to develop proposals to enable the use of tidal and water height information to adjust charted depths in S-57 based ECDIS equipment for consideration by HSSC-1.	In progress
5.1	Data Supply Chain Certification	20/7	IHB to encourage MS to participate in the RTCA Correspondence Group on Data Chain Certification Concept.	Done: CL 91/08.
5.1	Data Supply Chain Certification	20/8	RTCA Correspondence Group to liaise with DPSWG.	Done. Chair DPSWG is member of the corresp. group
5.1	Data Supply Chain Certification	20/9	RTCA Correspondence Group Leader to report on progress to HSSC-1.	Progress report provided to IRCC-1, 5 June 09
6.1	Product Specification for digital paper charts	20/10	IHB to invite the Nordic Hydrographic Commission (NHC) to report to HSSC-1 on the results of the Improved Data Exchange Working Group and the possible need for an S100-based data exchange standard for paper charts.	Not known

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	STATUS (Jun. 09)
6.1	S-57 temporal attribution	20/11	IHB to issue a "warning" CL to MS and NGOs regarding issues relating to S-57 temporal attribution and "master / slave" relationships, taking into account CHRIS20-WP1.	Done. Addressed through issue of CL32/2009
6.1	S-57 temporal attribution	20/12	TSMAD to issue an encoding bulletin regarding issues relating to S-57 temporal attribution and "master / slave" relationships, based on CHRIS20-WP1.	Done: EB24 (Apr 09) on IHO website.
6.1	S-57 temporal attribution	20/13	TSMAD to urgently consider by correspondence revisions to S-57 temporal attribution and "master / slave" relationships, taking into account CHRIS20-WP1.	Done: See CL 32/09
6.1	S-57 temporal attribution & CATZOC	20/14	As soon as practicable and subject to no adverse findings from TSMAD, volunteer MS's may wish to submit a late proposal to 4EIHC seeking approval for an amending Supplement to S-57 (S-57 3.1.2) containing revisions to S-57 temporal attribution and "master/slave" relationships which would also include amendments to CATZOC parameters and definitions (see Action 20/25).	Done by correspondence: See CL 32/09.
6.1	Geospatial Information Registry	20/15	IHB to develop a proposal to the 4 th EIHC for the long-term support and governance of the GII, taking into account CHRIS20-WP3 (to be combined with Action 20/16).	Deferred with agreement of Chairman; matter to be considered further at HSSC-1.
6.1	Adoption of S-100	20/16	IHB to develop a proposal for consideration by the 4 th EIHC to adopt S-100 as a live standard.	Being addressed by correspondence.
6.1	T & P Notices for ENC updating	20/17	IHB to issue CL inviting MS to participate in the ENC Updating Working Group (EUWG), based on CHRIS20-WP2.	Done: CL 92/08.
6.1	ENC consistency	20/18	TSMAD to review S-65 Appendix A – <i>Recommendations for Consistent ENC Data Encoding</i> and revise as necessary to take into account the practical experience of Canada and the BSHC (see CHRIS20-06.1D and CHRIS20-06.1F) regarding the regional implementation of the guidelines.	In progress by IC-ENC
6.1	ENC consistency	20/19	IHB to draw MS attention to the BSHC regional model for the implementation of S-65 Appendix A - <i>Recommendations for Consistent ENC Data Encoding</i> and the endorsement of WEND and CHRIS regarding this approach.	Done: CL 89/08.
6.3	Linear depth areas	20/20	TSMAD to release an Encoding Bulletin on discontinuing the encoding of linear depth areas from 1 January 2009.	Done: EB23 (Dec 08) on IHO website.
6.3	Revision of S-52	20/21	DIPWG to undertake a revision of S-52, including all annexes.	Done: See CL 34/09.
6.3	Pick report	20/22	DIPWG to further develop pick report as proposed in HSSC1-06.3A.	Will be undertaken when NP information modelling by SNPWG is completed.
6.5	INT chart coordinators	20/23	CSPCWG to develop ToR / RoP for INT Chart Coordinators.	TBD

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	STATUS (Jun. 09)
6.5	Small/medium ENC schemes	20/24	CSPCWG to develop guidelines for preparation & maintenance of small / medium scale ENC schemes.	TBD
6.6	CATZOC definitions	20/25	IHB and Chair TSMAD to bring amended CATZOC definitions into force through a supplement to S-57. (See also Action 20/14)	Done: See CL 32/09.
6.7	MSDI at EIHC-4	20/26	IHB to prepare a proposal for the 4 th EIHC based on the MSDIWG report and CHRIS20-WP4.	Done: See CCL5
6.8	Inland waters at EIHC-4	20/27	IHB to prepare a proposal for the 4 th EIHC based on the HCIWWG report and CHRIS20-WP5.	Done: See CCL5
6.8	Definition for 'navigable inland waters'	20/28	Hydrographic Dictionary WG to consider developing a definition for "navigable inland waters".	Done. Ready for HSSC consideration.
7.1	Hydro-related MIO register	20/29	TSMAD to further develop the infrastructure described in CHRIS20-06.1B Annex A for the governance and management of the GII, to decide if a hydro-related MIO register is to be created, and report to HSSC-1.	In progress
7.1	OEF Orphan S-57 objects / attributes	20/30	TSMAD in consultation with OEF to propose arrangements to HSSC-1 that accommodate the "miscellaneous" S-57 objects currently registered on the OEF	In progress
7.1	Outreach functions	20/31	IHB and Chair TSMAD to review ToRs and RoPs for TSMAD to ensure that the proposed TSMAD outreach functions outlined in CHRIS20-07.1C are addressed.	TSMAD Chair has determined that there are no amendments required.
8.1	Revision of M-3 TRs	20/32	IHB to circulate all CHRIS recommendations on M-3 Technical Resolutions to MS for approval.	In progress: See CLs 93/08, 11/09, 12/09, 29/09 & 30/09.
9.1	ToRs / RoPs & WP for HDWG	20/33	Hydrographic Dictionary WG to propose ToRs, RoPs and Work Plan to HSSC-1.	Done. Ready for HSSC consideration.
9.1	WP for TWLWG	20/34	Tidal and Water Level WG to propose Work Plan to HSSC-1.	Done. Ready for HSSC consideration.
11	Maintenance of S-66	20/35	IHB to invite the PRIMAR / IC-ENC Joint Information WG (JIWG) to maintain S-66 <i>Facts about Electronic Charts and Carriage Requirements</i> on behalf of HSSC as owner of S-66.	Done. Letter sent to leader of JTEWG in Jan 09
12	Next meeting	20/36	IHB to confirm and promulgate arrangements for HSSC-1.	Done: Singapore, 22-24 October.

1st IHO-HSSC Meeting
The Regent Hotel, Singapore, 22-24 October 2009

DRAFT AGENDA AND TIMETABLE

Wednesday 21 Oct	HSSC CHAIR GROUP
1400	Chair Group meet at The Regent Hotel Lobby
1405 - 1700	HSSC Chair Group Meeting (HSSC Chairs only)
Thursday 22 Oct	DAY 1 of HSSC-1
0900	1. Opening and Administrative Arrangements <i>Docs: HSSC1-01A List of Documents</i> <i>HSSC1-01B List of Participants</i> <i>HSSC1-01C HSSC – Members and Observers List</i> <i>HSSC1-01D Terms of Reference for HSSC and related Working Groups</i>
0915	2. Approval of Agenda <i>Docs: HSSC1-02A Agenda and Timetable</i>
0930	3. Matters arising from Minutes of 20th CHRIS Meeting <i>Docs: HSSC1-03A Minutes of CHRIS-20</i> <i>HSSC1-03B Status of Actions List from CHRIS-20 (IHB)</i>
1030	Coffee Break
1100	4. Decisions of other bodies affecting HSSC 4.1 4th Extraordinary International Hydrographic Conference <i>Docs: HSSC1-04.1A Outcomes from the 4th Extraordinary International Hydrographic Conference, Monaco, 2-5 June 2009 (IHB)</i>
	4.2 IMO <i>Docs: HSSC1-04.2A Report on IMO activities affecting HSSC (IHB)</i>
	4.3 ISO-TC211 (Geographic Information-Geomatics) <i>Docs: HSSC1-04.3A Report on ISO-TC211 activities affecting HSSC (B. Greenslade)</i>
	4.4 NATO-DGIWG (Digital Geographic Information W.G.) <i>Docs: HSSC1-04.4A Report on IHO Liaison with DGIWG (B. Greenslade)</i>
	4.5 IEC-TC80-WG7 (ECDIS and ECS) <i>Docs: HSSC1-04.5A Report on IEC-TC80-WG7 activities affecting HSSC (Secretary TC80)</i>

1200	5. Liaison with External Stakeholders
	5.1 Open ECDIS Forum Docs: HSSC1-05.1A <i>Progress Report on the migration of IHO functions currently operated on the OEF, to other IHO-sponsored servers (L. Alexander, USA-UNH and M. Huet, IHB)</i>
1230	Lunch
1400	6. Reports by HSSC Working Groups 6.1 Transfer Standard Maintenance and Application Development (TSMAD) Docs: HSSC1-06.1A <i>Report and Recommendations of TSMAD (B. Greenslade, UK, Chair)</i>
1530	Official Photograph
1540	Coffee Break
1600	6.1 Transfer Standard Maintenance and Application Development (TSMAD) (continued)
1730	END OF DAY 1
Friday 23 Oct	DAY 2 of HSSC-1
0900	6.2 Data Protection Scheme (DPSWG) Docs: HSSC1-06.2A <i>Report and Recommendations of DPSWG (J. Pritchard, UK, Chair)</i>
0930	6.3 Digital Information Portrayal (DIPWG) Docs: HSSC1-06.3A <i>Report and Recommendations of DIPWG (C. Harmon, USA-NOAA, Chair)</i>
1000	6.4 Standardization of Nautical Publications (SNPWG) Docs: HSSC1-06.4A <i>Report and Recommendations of SNPWG (D. Acland, UK, Chair)</i>
1030	Coffee Break
1100	6.5 Chart Standardization and Paper Chart (CSPCWG) Docs: HSSC1-06.5A <i>Report and Recommendations of CSPCWG (P. Jones, UK, Chair)</i>
1130	6.6 Data Quality (DQWG) Docs: HSSC1-06.6A <i>Report and Recommendations of DQWG (C. Howlett, UK, Chair)</i>
1200	6.7 Marine Spatial Data Infrastructure (MSDIWG) Docs: HSSC1-06.7A <i>Report and Recommendations of MSDIWG (Chair)</i> HSSC1-06.7B <i>MSDI Guidance Document</i>
1230	Lunch
1400	6.8 Tidal and Water Level (TWLWG) Docs: HSSC1-06.8A <i>Report and Recommendations of TWLWG (S. Gill, USA-NOAA, Chair)</i>
1430	6.9 Hydrographic Dictionary (HDWG) Docs: HSSC-06.9A <i>Report and Recommendations of HDWG (J. Mills, USA-NOAA, Chair)</i>
1500	6.10 ENC Updating (EUWG) Docs: HSSC-6.10A <i>Report and Recommendations of EUWG (Y. Le Franc, France, Chair)</i>
1530	Coffee Break

1600	7. Inter-Organizational Bodies 7.1 Inland ENC Harmonization Group (IEHG) <i>Docs: HSSC1-07.1A Status Report on IEHG activities (Denise LaDue, USA, Co-Chair IEHG)</i>
1630	7.2 Harmonization Group on Marine Information Overlays (HGMIO) <i>Docs: HSSC1-07.2A Status Report on HGMIO activities (L. Alexander, USA-UNH, Chair)</i>
1700	7.3 IHO-IAG Advisory Board on the Law Of the Sea (ABLOS) <i>Docs: HSSC1-07.3A Status Report on ABLOS activities (C. Rizos, Australia, Chair)</i>
1730	END OF DAY 2
Saturday 24 Oct	DAY 3 of HSSC-1
0900	8. Other HSSC Business 8.1 Review of M-3 <i>Docs: HSSC1-8.1A Status Report on Revision of M-3 "IHO Resolutions" (IHB)</i>
0930	9. Review and Endorsement of HSSC Work Plan <i>Docs: HSSC1-09A Consolidated HSSC Work Plan (IHB)</i>
1000	10. HSSC Administration <i>Docs: HSSC1-10A Scheduling of HSSC and WG meetings (IHB)</i>
1030	Coffee Break
1100	11. Review of Information Papers <i>Docs: HSSC1-INF1 Status Report on IHO Standards and Specifications (IHB)</i>
o/c	12. Date and Location of Next Meeting
1230	Lunch
1400-1630	SPARE
o/c	13. Closure of the Meeting
not later than 1630	END OF DAY 3

HSSC - LIST OF MEMBERS AND OBSERVERS

(June 2009)

Member States	Name	Email
Argentina	Cdr Fabian Alejandro VETERE	fveter@hidro.gov.ar
Australia	Mr Mike PRINCE	international.relations@hydro.gov.au
Brazil	Capt Alberto P. COSTA NEVES Capt (Ret.) Wesley W. CAVALHEIRO	costaneves@ig.com.br wesley.cavalheiro@lumen-assessoria.net
Canada	<i>To be nominated</i>	
Chile	Capt Patricio CARRASCO	pcarrasco@shoa.cl
China	Mr ZHENG Hepping	hydro@msa.gov.cn
Cuba	Eng J.C. MARANTE Cabrera	internacional@geocuba.co.cu
Denmark	Mr Jens Peter HARTMAN	jepha@kms.dk
Ecuador	TNFG Marcos SANTOS CATAÑEDA	msantos@inocar.mil.ec
Estonia	Mr Tõnis SIILANARUSK	tonis@vta.ee
Finland	Mr Juha KORHONEN	Juha.Korhonen@fma.fi
France	Ing en chef Jean-Luc DENIEL Mr Yves LE FRANC	deniel@shom.fr yves.le.franc@shom.fr
Germany	Dr. Mathias JONAS (HSSC Vice Chair)	mathias.jonas@bsh.de
Greece	Mr. Alexis HADJANTONIOU	dcd@hnhs.gr
India	Shri Rajesh KUMAR	in的角度@dataone.in
Indonesia	<i>no name provided</i>	infohid@indo.net.id
Italy	LtCdr Alessandro NOBILI	iim.crt@marina.difesa.it
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Korea, Rep. of	Director, Nautical Charts Division	info@nori.go.kr
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