5th EAST ASIA HYDROGRAPHIC COMMISSION STEERING COMMITTEE MEETING <u>6th – 8th Mar 2018</u> XIAMEN, CHINA

A1: Welcoming Address

1. Director General of China Maritime Safety Agency (MSA), Honourable Mr Xu Ruqing welcomed all EAHC MSs and opened the 5th EAHC SC meeting. The full welcoming address appears as **ANNEX 1**.

A2: Opening Address

2. The Chairman of EAHC Rear Admiral Dato' Fadzilah bin Mohd Salleh welcomed all MSs and thanked MSA for hosting the 5th EAHC Steering Committee Meeting. Chairman reminded all MSs that the meeting is to focus on technical aspect for safety of navigation and hopefully not to on political issues. The Chairman than invited all delegates to introduce themselves to the meeting. The full opening speech appears as **ANNEX 2**. The list of participants appears as **ANNEX 3**.

A3: Adoption of Agenda

3. The Meeting agreed to adopt the Provisional Agenda. The adopted agenda appears as **ANNEX 4**.

A4: IHO Secretariat Report

4. IHO Director presented the IHO Report as **ANNEX 5**. He started by explaining the impact of the amendments to the IHO Convention and its supporting Basic Document that has entered into force. One of the significant changes is when voting by correspondence is required, through the Council, decisions will be taken based on a majority of the MSs that cast a vote, rather than the previous arrangements where a majority of all the MSs entitled to vote is required. A minimum number of at least one-third of all MSs eligible to vote must vote positively for the vote to stand.

Status of Membership of the IHO

5. Cambodia and Timor Leste, the two observer states of the EAHC have yet to apply to join member of IHO. Both countries are MSs of the UN and EAHC is encouraged to continue engage with them in order to raise awareness on the importance and value of hydrography.

INT Chart and ENC Production Coordination - Region K

6. According to the IHO Secretariat records, Region K is comprising a total of 294 charts where 240 charts has been published so far.

7. IHO Director reported that no updated information on INT chart schemes had been received from Region K members for more than two years. Request EAHC representatives to indicate their support (or otherwise) of regional coordination of INT Chart and ENC production and, if appropriate, inform the relevant IHO bodies (WENDWG, NCWG, then IRCC and HSSC) of their concerns.

8. The EAHC ENC Producers who distribute their ENCs through a RENC are also encouraged to consider the proposed joint RENC policy on the use of ENC CATZOC data by the IHO Secretariat.

9. Other recommendation by IHO Director to MSs are:

a. Each MSs requested to share their best practices on the way CATZOC values are populated for S-57 ENCs with Data Quality Working Group.

b. MSs to provide report and inputs to the WENDWG, prior to the 8th Meeting in March.

c. MSs to support the maintenance of ENC Schemes when the INToGIS Phase II is commissioned.

Maritime Safety Information Services

10. IHO Director stated that reports by the NAVAREA Coordinators to the IHO World-Wide Navigational Warning Service Sub-Committee (WWNWS-SC), has mentioned a continuing area of concern is the apparent inability for countries to support the recipients of IHO MSI training or achieve continuity of employment of these individuals within this area of responsibility. In order to assist in identifying priorities for the provision of MSI Training, MSs requested to:

a. Provide the regional NAVAREA Coordinator(s) with regular flow of MSI.

b. Maintain regular communication with the regional NAVAREA Coordinator(s) and inform of any change of personnel or contact details.

c. Use and following the guidance provided in S-53 – Joint IMO/IHO/WMO Manual on Maritime Safety Information.

Capacity Building Programme

11. MSs are requested to prepare candidates and apply for the Category "A" hydrography programme. Master of Science Programme in Hydrographic Surveying at the University of Southern Mississippi (USM),USA.

12. MSs are requested to consider applying for the UKHO Category "B" Cartography Programme.

Preparation of the next meeting of the IHO Council

13. The second meeting of the IHO Council is scheduled to take place in London, UK, from 9 to 11 October 2018. The preparation of this meeting has started, in liaison with the host country. MSs are requested to consider appropriate arrangements and provide feedback to prepare for the 2nd Meeting of the IHO Council.

14. EAHC is requested to consider of setting a framework for MSs to review and provide feedback to the EAHC representative prior to the IHO Council Meeting.

IHO GIS & Database

15. Work has continued on the development of the IHO GIS which comprised of two main parts:

- a. A country information database, and
- b. A regional information database.

16. The country information database has been progressively upgraded to include additional administrative information and facilitate the maintenance of the IHO Yearbook (IHO Publication P-5) and related lists posted on the IHO website. Countries in the EAHC region are invited to review their entry in the Yearbook on an annual basis and provide the IHO Secretariat with the appropriate updates or report necessarily.

17. Chair reminds all MSs regarding KH and TL EAHC membership status and requested feedback from KH. In respond, KH explained that their higher authority required them to study further before any decision could be made. This only could be done after the general election.

18. Vice Chair urged MSs to give full cooperation to JP as designated INT Chart & ENC coordinator for Region K to update IHO Publication S-11 Part B "Catalogue of INT Charts".

Action Requested:

R1 – All EAHC members to provide feedback regarding issues discussed in paragraphs 7 to 17.

A5: EAHC Membership Status

19. The Chair informed that VN membership status is still pending. Chairman then requested CN to respond on the support of VN membership status.

20. CN stated that they still waiting an official diplomatic request from VN regarding this issue. CN requested the SC to give them sometime regarding this matter.

Action Requested:

R2 – CN to expedite the response regarding VN membership status.

A6: CHC Report:

East Asia ENC Administrator

21. Chair (CHC) reported that 6 options were considered to resolve the issue of naming in the SCS ENC cells. After lengthy deliberation, the CHC agreed to recommend Option 6, which is to identify the cells not affected by the naming issue and to continue works on the remaining ENC cells. The Meeting was informed that the EA ENC Administrator had identified 2 SCS ENC cells ie. EA200003 & EA200004 which is not affected by naming issues.

22. EA ENC Administrator mentioned that both cells have been updated and ready for release. In response to the SCS ENC cells, CN commented that they meet the SOLAS requirements and users are happy with previous editions. Any changes in the geographical naming will confused the mariner. However to move forward, CN agreed to the recommendation of Option 6 as a solution.

23. The Meeting agreed to the release the SCS ENC cell EA200003 & EA200004 by 1st April 2018 with selling price of USD 10 per cell, which is a pro-rated of the sale price of USD40 for 4 ENC cells, which was agreed at earlier Steering Committee meeting. The EA ENC Administrator was requested to send both cells for review by MSs. MSs are to submit their comments by 20 Mar 2018 in order to meet the release date of 1 Apr 2018. The Meeting took note that revenue from the sale will be used to support the EAHC CB Programmes.

Decision:

D1 - MSs to provide feedback on 3rd edition of SCS ENC cell EA200003 & EA200004 by 20th Mar 2018 in order to release them to the public on 1 Apr 2018.

National MSDI Plan

24. Chair (CHC) reported on the progress made by various MSs on their National MSDI Plan. He shared that progress made could be attributed to the MSDI training programmes undertaken by the EAHC 5 years ago. He observed that MSs that have implemented their MSDI capabilities are at different stage of development and encouraged MSs to share their experience so that the learning process could be accelerated by sharing of experience. The Meeting noted that ROK has been appointed as the MSDI Coordinator for EAHC.

e-MIO Sub-Working Group

25. Chair (CHC) reported that this working group was set up to address the need to protect the marine environment eg. by identifying sensitive receptors and support the blue economy. The Meeting noted that ROK and JP have shared their experience and Guidelines on how to established an e-MIO environment. These could contribute to the work of the S-100 Working Group.

S-100 and e-Navigation

26. Chair (CHC) reported that Singapore will be hosting the S-100 Working Group in Apr 2018 and encouraged MSs to participate.

Concept Study of Tide and Sea level in the SCS

27. In view of the recent impact of storm surge in the South China Sea, the project would be useful to better prepare of higher water level if coupled with astronomical high tide. The Meeting noted that one of ROK's Universities has shown interest in this project but needed funding support for the research project. ROK was requested to seek a small funding to support the feasibility study than explore how this can be translated into a project. IHO Director suggested that EAHC could submit a proposal to CBSC for funding support. Indonesia offered to contribute their tidal level data at Natura Island for the study.

28. Chair requested CN to consider funding the research project and could report at the next CHC Meeting.

29. The Meeting endorsed the Report of the CHC.

Decision:

D2 - In review of the possible impact of climate change, the Meeting supported the SCS Tidal Study Project which will be useful and should be discussed at the next CHC meeting.

A7: TRDC-BOD Report

30. The Chair gave a recap of the 7th TRDC BOD meeting in Tokyo and requested the TRDC Chair to report 8th TRDC meeting that was held on 5 March 2018.

31. TRDC Chair presented the key points arising from 7th TRDC BOD Meeting and the presentation appears as **ANNEX 6**.

a. Report on the Basic Cartographic and Hydrographic "CAT C" courses and TFT courses.

- b. Report on the 2017 and 2018 Courses.
- c. Proposed 2019 Courses.
- d. Long Term Capacity Building Plans for EAHC.
- 32. From the presentation, the following key points were agreed:

a. Noted that nearly all MSs have implemented or will implement the conduct of Basic Hydro and Carto training for their respective officers. This was in line with the "self-propelled" CB model which the EAHC endorsed in 2012. The Chair (TRDC) said that there was a need for a regular course review of the training syllabus, content and to refresh the assessment question bank. However, the challenge was to seek funding to facilitate the reviews. The Chair (TRDC) also requested the SC to consider sharing the Basic Hydro and Carto course models and course content at the upcoming CBSC16 Meeting. The SC approved the proposal as it would allow the EAHC to share our experience and best practices with other IHO MSs.

b. Indonesia would be hosting and conducting the Training Course on GNSS for tidal survey in Jakarta, from 2-6 July 2018. The course would be funded by the IHO CB Fund. Indonesia also proposed to invite Observers (eg. KH) and States in the SWPHC to attend the course as it would benefit these States in their hydrographic development. These States participation would either be self-funded or funded by Indonesia. The SC fully supported Indonesia's proposal.

c. The TRDC BOD proposed to the SC the following three 2019 training courses for submission to IHO CBSC16:

1) Risk Assessment for Hydrographic Survey and Charting Management for the Safety of Navigation Workshop.

- 2) Management of MSI DB Workshop.
- 3) Integration and Management of Hydrographic data for MSDI.

d. In view of the growing need to carry out a comprehensive and systematic manner of updating charts whilst maximizing limited resources, the need to build up and reinforce the MSI national and regional framework, and the growing importance of MSDI, the SC approved the above courses for submission to CBSC16.

e. From the Long Term EAHC CB Plan analysis which was led by TH, the key findings were the need for:

1) Sustainable CB and Knowledge Management. This has been achieved through the development and implementation of the "self-propelled" CB model of Basic Hydro and Carto courses, including the TFT modules.

2) To extend this CB model to other hydrographic area, eg. Tides and ENC Production, etc.

3) To create greater awareness and importance of hydrography so as to enhance the profile of hydrography and to meet the growing needs for marine and maritime data. This could be achieved through:

a) Sharing the CB training courses with other RHC and neighboring States.

b) Development of MSDI as there is need to work with other national agencies and regional / international offices / organisations. The basis for MSDI data is based on hydrographic information, eg. ENCs and HOs played a key role in the provision of this authorised data.

Decision:

D3 - The SC noted that TRDC BOD would future assess these findings and recommendations would be made at the next SC meeting.

A8: EA Regional ENC Coordinating Centre (RECC) Report

33. The Chair recalled that Hong Kong (CN) was appointed the EA-RECC Coordinator. Michael Chau, on behalf of the EA-RECC presented their report which appears as **ANNEX 7**. In the development of the EA-RECC, following key points were highlighted:

a. Employment and training of 10 new officers using the 7Cs tools.

b. Renovation part of the Hong Kong HO to house the new EA-RECC office.

c. Purchase of hardware and software.

d. Liaison and sharing of experience with RENCs, eg. IC-ENC and PRIMAR in the development of the EA-RECC.

34. Michael commented that the EA-RECC should be completed by the 3Q of 2018 and invited EAHC MSs to participate in the EA-RECC.

35. The Meeting appreciated the effort by Hong Kong (CN) HO in establishing the infrastructure and building up capabilities for the EA-RECC. To move forward, the SC proposed the EA-RECC Coordinator to carry out the following so that MSs could consider joining the EA-RECC:

a. TOR and ROP for the BoD of EA-RECC.

b. Data work flow mechanism.

c. Timelines of when the EA-RECC would be operational, BOD meetings, etc.

d. ENCs Pricing Schemes.

36. The meeting noted that the BOD would consist of a representative from each EAHC MS and proceeds from the sale of the SCS ENCs would be channeled to CB for the EAHC.

A9: Strategic Team Advance Roadmap (STAR) Task Group Report

37. JP as chair of the STAR reported on the TG's progress and the presentation appears as **ANNEX 8**. The presentation covered:

a. Current situation of the IHO Strategic Plan.

b. IHO SPRWG TORs and its WG timeline where JP was nominated the Vice Chair of the SPRWG.

c. STAR Questionnaire.

38. JP commented that the newly formed SPRWG at the 1st IHO Council in Oct 2017 was similar to STAR and that STAR should work in line with the SPRWG so as to be aligned with the direction of the international hydrographic trends. JP also requested MSs to complete and submit the questionnaire.

39. SG said that STAR was formed first and it should play a more active role and in turn contribute to the SPRWG as a Commission.

40. The Chair also encouraged MSs to participate in the STAR as this would look at the long term goal and of the EAHC and would set the direction the Commission should focus on.

Actions Requested:

R3 – MSs are requested to complete and submit the questionnaire by 31st Mar 2018.

R4 – Meeting requested JP to provide a draft revised ToR of the STAR Task Group including the time line for STAR project.

A10: EAHC MSDI WG

41. The ROK presented the status of EAHC MSDIWG and the presentation as appear in **ANNEX 9**.

42. During the 12th EAHC Conference, it was proposed to establish the East Asia Marine Spatial Data Infrastructure Working Group (EAHC-MSDIWG). The IHO MSDIWG requested ROK to report EAHC activities at every meeting.

43. 2018 MSDI Working Group was successfully conducted in Brazil. ROK Propose 1st EAHC-MSDIWG to be back to back with CHC7 Meeting. ROK requested MSs to nominate and update the EAHC MSDIWG member list as soon as possible.

44. SG reiterated that the MSDIWG should consider providing a Guidelines to assist MSs who are embarking to set up their MSDI. The Guidelines should also cover the experience so that mistakes need not be repeated.

45. SG highlighted on the importance to ensure data format are harmonized, including the collection of various marine data and parameters. Chair responded that

this is for WG to think through and those countries that have experience in MSDI should share their knowledge on the implementation of MSDI. The Meeting noted that ROK has commenced their MSDI development and would take about a year to complete. The Meeting requested ROK to share their experience as the progress instead of waiting until their have completed the project. The rationale is to ensure that MSs who are following closely behind can also learn at the same time. The danger of waiting to share experience at the end of project may result in divergence of end results eg. different data formats, etc.

Decisions:

D4 – MSs that have not nominated their representative to the MSDIWG to submit them to ROK.

D5 - ROK to update MSs on MSDI plan so that MSs can be on the same track, especially on harmonization of data formats and collection of marine data and parameters.

A11: Technical Visit Report

Cambodia

46. MY presented the Report of Technical Visit to KH which was successfully conducted on 3-5 April 2017. The visit was led by Chief Hydrographer of MY and JP were part of technical visit delegation. The presentation as appeared in **ANNEX 10**.

47. SG proposed that Technical Visits could be further value added by offering technical assistance to conduct hydrographic survey and produce nautical charts, as a package. By doing so, potential MS can appreciate the value of being EAHC MS.

Timor Leste

48. MY suggested JP to lead the 2018 Technical Survey to TL after EAHC Conference in MY.

49. JP agreed and ask MY to hand over the previous arrangement.

Decision:

D6 - JP Take lead for Technical Visit to TL after EAHC Conference in MY.

A12: Report on Important Issues from Meeting Attended by MSs:

IRCC

50. The Chair requested Dr. Parry as the IRCC Chairman to share the issues discussed at the IRCC meeting in Paramaribo, Suriname in June 2017. The IRCC Chair highlighted the following key areas:

a. <u>Capacity Building</u>. This remains of the priorities of the IRCC. However, increasingly finding funds to support the growing number of CB programmes is becoming more challenging. However, he shared that the CBSC attempts to ensure the allocation of funds are best used to meet IHO objectives and at the same time to be spread among the various regional commissions.

b. <u>MSDI</u>. Establishment of MGIWG moving towards OGC standard. Chair (IRCC) encouraged MSs to support this initiative as hydrographers are grossly under represented at the UN-GGIM.

c. <u>Crowd Sourcing</u>. Crowd sourcing will be one of the main contributors to the GEBCO Seabed 2030 Program. However, some HOs have concerns on the reliability of crowd source data for use in charting. The Meeting was encouraged to examine the Guidelines predicted by the IHO Crowd Source Working Group data and this can be accessed through IHO website.

d. <u>Marine Information Overlay (MIO)</u>. Few MSs have expressed concerned on Temporary & Preliminary NTM information provided by 3rd party, which may conflict with the ENCs of producer States. Chair (IRCC) reported that there was an equitable outcome at the last IRCC meeting.

e. <u>Disaster Management</u>. Based on the Action 31 of the IRCC9, JP is leading to review the IHO Resolution 1/2005 IHO Responses to Disaster and coordinate with South-West Pacific Hydrographic Commission (SWPHC) Chair, which is Australia. JP will attend the meeting in Goa to represent EAHC and report the situation of this action.

IHO Council Meeting

51. The Meeting agreed that EAHC should consider setting up a framework for the MSs to review and provide feedback to the EAHC representative(s) elected to the IHO Council. This would ensure that our regional interests are safeguarded. All MSs agreed and this could be communicated through correspondence as there is strict deadlines to be adhered for submission and submitting of comments for the Red Book. However, the Meeting noted that comments could also be made at the Council meeting if, time is needed for further consideration but this would need to be made verbally.

52. The EAHC Chair Office will take the lead to compile all the issues to be highlighted by MSs and to be submitted to the IHO Council before 9th July 2018.

Decision:

D7 – MY to circulate CL to compile any issues from MSs that need to be highlighted to IHO Council.

Hydrographic Services and Standard Committee (HSSC)

53. Chair request MSs involved in the 9th HSSC Meeting to share and highlight the important outcome from the meeting. SG shared that the charting of submarine cables and pipelines was extensively discussed at the last HSSC Meeting in Canada. The Meeting noted that 90% of internet data is transmitted via submarine cables and it is important to chart the cable properly to prevent any breakage, which could lead to disruption. The Meeting noted that Cable owners are partly responsible as they may not always provide the as-laid positions of the submarine cable which is critical is they are to be properly charted. Indonesia requested SG to share their knowledge on how to manage and correctly chart the submarine cables in the next meeting.

54. SG also highlighted the feedback from INTERTANKO that major source of discontent from mariners in relation with ENC quality indicators was caused by the fact that many Hydrographic Offices (HOs) were not populating meaningful CATZOC values in their ENCs. As agreed by HSSC, it is therefore of paramount importance that all HOs review their current ENC production processes and make changes where necessary to encode appropriate values of CATZOC for ENCs. Without a qualitative CATZOC value, mariners are then forced to adopt a worst-case scenario when determining their UKC margins, and this is resulting in some ports being indicated unnecessarily as out of bounds for their vessels. In addition, INTERTANKO also shared that there is a need to provide high density ENCs with 1-metre interval seabed contours in order to correctly display more precisely the safer navigable waters.

Decisions:

D8 - MSs are encouraged to participate in ENCWG and DQWG and the next HSSC Meeting will be in Germany by May 2019.

A13: Amendment of EAHC Statutes

55. MY proposed amendment to the EAHC Statutes on Article II and Article VII in regard with the membership admission and voting mechanism. The presentation appears in **ANNEX 11**.

56. Vice Chair feel it is good time for EAHC to review the statutes, but it should consider either to make a comprehensive review or just simple review based on current requirement. SG commented that perhaps it would be good to identify the important trigger for the need to amend the Statutes eg. to be aligned to IHO's new Convention. A full study should be made to define the coverage of the amendments to be made. Majority of the MSs agreed with the suggestion made by SG. The IHO Director then add up that is a need for a review to be done in line with the current transformation of IHO, but it should be limited to editorial changes and the regional memberships should be limited to the charting region only.

57. JP then suggested for the EAHC to establish a small working group to do a thorough study and the outcome to be presented in next EAHC meeting. CN agreed with JP and suggested for the study to be keep open and not focus on certain scope. Identify what need to be amended or if not, just stick with current statutes. SG proposed that a Term of Reference (TOR) for the WG should be drawn up to review the Statutes.

58. Chair agreed with the suggestion by all MSs.

Decision:

D9 – Chair nominated MY to lead the WG.

D10 – Chairman Office will come out with necessary CL for this requirement.

A14: Concept of Conference

59. MY presenting the concept of the next 13th Conference that will be held on the 18 to 20 September 2018 in Putrajaya, MY. The conduct of the conference will be a collaboration between National Hydrographic Center, MY and the MY Hydrographic Society (MyHS). The presentation appears as in **ANNEX 12**. MY requested for MSs full support in the conference as well to encourage hydrographic community in their respective country to participate in the Hydrographic South East Asia (HydroSEA) Conference and Exhibition 2018 that will be held in conjunction with the EAHC Conference. Details programs and invitation will be circulated by the Chairman Office in April 2018.

Decision:

D11 – Chairman Office to circulate the invitation and detail of program to all MSs by April 2018.

A15: Hydrographic Survey After Disaster/Emergency Hydrographic Survey & A16: Application of Hydrographic Database

60. CN presenting their experience on the Hydrographic Survey After Disaster/Emergency Hydrographic Survey as per **ANNEX 13**. Then followed with the presentation on the Application of Hydrographic Database as per **ANNEX 14**.

A17: Any Other Matters

61. As MY will be hosting the 13th Conference in September 2018, Chair invited all hydrographers from respective MSs to participate and presenting technical papers during the HydroSEA Conference and Exhibition 2018.

62. EAHC SC Meeting continued with the 4 presentations by Indonesia and 2 presentations by JP. Indonesia presenting the following topic for sharing purposes and MSs consumption.

- a. Indonesian Marine Geospatial Center (I-MaGIC).
- b. Risk Assessment of Nautical Chart.
- c. Marine Navigation Apps.
- d. TSS in Lombok Straits.

63. JP presenting the draft for the new layout of EAHC Webpage and access point for MSDI Information from the webpage. MSs are requested to visit and to approve the new layout of the webpage. The presentation as appeared in **ANNEX 15**.

Decision:

D12 – MSs to give comments and input to improve the webpage by end of April 2018.

A18: Selection of New Vice-Chairman

64. In order to prepare for the forthcoming EAHC Conference to be hosted by Malaysia, Chair proposed that in order to facilitate smooth planning and

administration purposes, it would be useful to identify early the next Vice-Chair for EAHC. The Meeting agreed to the proposal after some discussion. The Meeting agreed to the nomination of Indonesia as the next Vice Chair but this will need to go through the formal process at the EAHC Conference.

Decision:

D13 - MSs to take note and agreed to the nomination of Indonesia as the next Vice Chair.

A19: Date and Venue for Next Meeting

65. Indonesia offered to host the next 6th EAHC SC and will inform the date and venue later by correspondence.

Decision:

D14 - Indonesia to propose the date and venue for the next meeting.

A20: Adoption of Minutes of Meeting

66. The minutes of meeting was adopted.

A21: Close of Meeting

67. The meeting was adjourned on 8 Mar 2018 at time 1230.

Prepare by

Secretariat EAHC Chairman's Office