**NCWG3-07.1A**

**3rd NCWG MEETING**

**ESRI HQ, Redlands, California, USA 16-19 May 2017**

**NCWG Work Plan**

 (Updated following HSSC8)

* *Objectives, Tasks and Work Items are pursued in accordance with IHO Work Programme 2017, Programme 2: Services and Standards*

*(as proposed in CL54/2016 and approved by CL65/2016):*

* + *Element 2.2 Hydrographic Data Transfer Standards*
		- *Task 2.2.5 Provide outreach and technical assistance regarding transfer standards*
	+ *Element 2.3. Nautical Cartography:*
		- *Task 2.3.1 Conduct meetings of Nautical Cartography Working Group (NCWG).*
		- *Task 2.3.2 Maintain and extend the relevant IHO standards, specifications and publications.*
* *The focus is on maintaining and enhancing cartographic standards and specifications for nautical charts to suit the needs of the modern mariner in support of safe navigation and protection of the marine environment.*
* *As a Plan it will and should evolve; accordingly, contributions from WG members and others are welcomed at any time.*

*NCWG Tasks*

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| A | Maintain and extend Publication S-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts' (IHO Task 2.3.2.1) |
| B | Maintain and extend Publication S-11 Part A ‘Guidance for the Preparation and Maintenance of INT Chart schemes’ (IHO Task 2.3.2.5) |
| D | Development of new (and revised) symbology (IHO Task 2.3.2) |
| E | Maintenance of S-4 supplementary publications INT 1, 2 & 3 (IHO Task 2.3.2.2-4) |
| G | Conduct meetings of NCWG (IHO Task 2.3.1) |
| H | Provide technical assistance to other IHO working groups and support regarding the implementation of S-100 (IHO Task 2.2.5) |
|  |  |
| **No** | **Work item** | **Priority**H-highM-mediumL-low | **Next Milestone** | **Start****Date** | **End****Date** | **Status**P-PlannedO-OngoingC-Completed | **Contact Person(s)** | **Affected Pubs/Standard** | **Remarks** |
| ~~A11~~ | ~~Clarify guidance on dredged/maintained areas~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2011~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4, INT1~~ | ~~CSPCWG9 Action 43~~~~CSPCWG10 Action 10~~~~WG Ltrs 09 & 13/14~~~~Included in S-4 4.6.0~~ |
| ~~A13~~ | ~~Provide guidance on charting maximum authorized draught~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2012~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4, INT1~~ | ~~Draft guidance approved by WG.~~~~CSPCWG10 Action 12.~~ ~~WG Ltrs 09 & 13/14 – see 09/14 for changes to specs; NCWG1 Agenda 08.3; NCWG1Action 17; WG Ltrs 02 & 08/2015. Included in S-4 4.6.0~~ |
| A16 | Consideration of the ‘future of the paper chart’ | H | NCWG3 Agenda 7.2 | 2014 | 2017 | O | Chair NCWG |  | CSPCWG10 Action 36NCWG1 Action 54Meeting following NCWG2Report at HSSC9 |
| ~~A17~~ | ~~Provide guidance on charting wind farms under construction at sea~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2014~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4 B-445~~ | ~~CSPCWG10 Action 20~~~~WG Ltrs 10 & 14/2014~~~~Included in S-4 4.6.0~~ |
| ~~A18~~ | ~~Provide guidance on charting covered berths~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2014~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4 B-300~~ | ~~CSPCWG10 Action 21~~~~WG Ltrs 10 & 14/2014~~~~NCWG1 Action 15; WG Ltr 04/2015~~~~Included in S-4 4.6.0~~ |
| ~~A19~~ | ~~Provide additional guidance on charting AIS where on most AtoN in region~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2014~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4 B-489~~ | ~~CSPCWG10 Action 28~~~~WG Ltrs 10 & 14/2014~~~~Included in S-4 4.6.0~~ |
| ~~A20~~ | ~~Provide guidance on use of QR codes~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2014~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4 B-243~~ | ~~CSPCWG10 Action 38~~~~WG Ltrs 11/2014 & 01/2015~~~~Included in S-4 4.6.0~~ |
| ~~A21~~ | ~~Provide guidance on adding reminder about T & P NMs on charts~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2014~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4 B-252~~ | ~~CSPCWG10 Action 41~~~~WG Ltrs 11/2014 & 01/2015~~~~Included in S-4 4.6.0~~ |
| ~~A23~~ | ~~Specify “consistency” of charted information between paper charts and corresponding ENCs~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2015~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4 Part B Sections 100 and 600~~ | ~~NCWG1 Action 43~~~~WG Ltrs 03 and 10/2015~~~~Included in S-4 4.6.0~~ |
| A24 | Provide guidance on the use of seals of non- IHO members on INT charts.Clarification required to prevent non-HO seals and logos being included on INT charts | M | Report to HSSC9 and remove | 2014 | 2017 | C | Sec NCWG | S-4 | HSSC6-05.5C & F referNCWG1 Action 46WG Ltrs 02 & 08/2015Included in S-4 4.6.0NCWG2 Action 36, further clarification neededIncluded in S-4 4.7.0 |
| ~~A25~~ | ~~Buildings above the water~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2015~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4~~ | ~~NCWG1 Action 29~~~~WG Ltr 04/2015~~~~Included in S-4 4.6.0~~ |
| A26 | Portrayal subWG | H | NCWG3 Agenda 7.3 | 2016 |  | O | Chair NCWG |  | HSSC7 Action 18NCWG2 Actions 5, 22, 30-32 |
| A27 | Provide guidance on charting Sub-surface floating pipelines | M | Report to HSSC9 and remove | 2016 | 2017 | C | Sec NCWG | S-4 | NCWG2 Action 15Endorsed by HSSC8. Included in S-4 4.7.0 |
| A28 | Future of S-4 |  | NCWG3 Agenda 7.4 |  |  | P | Chair NCWG | S-4 | NCWG2 Agenda Item 13.2 |
| A29 | Consider ICPC submission on charting submarine cables taking into account deep sea mining | L | NCWG3 Agenda 8.3 |  |  | P | Chair NCWG | S-4 | HSSC8/68 (pending submission from ICPC) |
| A30 | Check the impact of the IHO Resolution 3/1919 as amended on S-4 when it is approved | L | NCWG3 Agenda 9.1 | 2016 | ? | O |  | S-4, INT1, S-32 | Ref. IHO CL 27/2016 and CL xx/2016 |
| B3 | Develop guidelines for preparation & maintenance of small / medium scale ENC schemes. | H | Report to HSSC9 and remove  | 2009 | 2017 | C | Sec/Chair NCWGIHB | S-11A  | HSSC7 Action 22NCWG2 Action 37Included in S-11A 3.0.0 |
| B4 | Prepare a “basic quality assurance check-list template” for use by INT Chart Coordinators/ICCWG in support of the review of new INT charts. | M | NCWG3 Agenda 7.5 | 2016 | 2017 | O | IHO(Sec) Chair/Sec NCWG |  | IHO CL 64/2015NCWG2 Actions 38, 39Feedback from coordinators due 31/03/2017. Refer to IRCC9. |
| ~~D32.4~~ | ~~Reinstate (simplified) symbol for light vessels~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2012~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S-4 / B-474, INT1~~ | ~~CSPCWG9 Action 18;~~ ~~CSPCWG10 Action 16~~~~NCWG1 Action 34~~~~Included in S-4 4.6.0~~ |
| ~~D35~~ | ~~Dangerous cargo berth~~ | ~~M~~ | ~~Reported to HSSC8; can now be removed~~ | ~~2014~~ | ~~2016~~ | ~~C~~ | ~~Sec NCWG~~ | ~~S4 / B-300~~ | ~~CSPCWG10 Action 18~~~~WG Ltrs 10 & 14/2014~~~~Included in S-4 4.6.0~~ |
| D36 | User activated AtoN | M | Report to HSSC9 and remove  | 2015 | 2017 | C | Sec NCWG | S-4, INT1 | NCWG2 Action 10Endorsed by HSSC8. Included in S-4 4.7.0 |
| D37 | Seagrass | M | Report to HSSC9 and remove  | 2016 | 2017 | C | Sec NCWG | S-4, INT1 | NCWG2 Action 23, 24Endorsed by HSSC8. Included in S-4 4.7.0 |
| D38 | Bubbler | M | Report to HSSC9 and remove  | 2016 | 2017 | C | Sec NCWG | S-4, INT1 | NCWG2 Action 43, 44Endorsed by HSSC8. Included in S-4 4.7.0 |
| E1 | Maintain official INT 1s |  | Planning for next editions by INT1 sub-WG NCWG3 Agenda 11.1 |  |  | O | DE: S Spohn FR: S GuillouES: F. Yanguas | INT 1 | English version 2015 (Ed 8) French version 2016 (Ed 6)Spanish version 2015(Ed 5) |
| E4 | Symbols for vacant entries in INT 1 | L | Remove agreed vacant entries and populate B48 & F29.2 next editions INT1.Report to HSSC9 and remove | 2016 | 2019? | O | Sec NCWG INT1subWG | INT 1, S-4 part B | NCWG1 Action 14NCWG2 Actions 41-44Included in S-4 4.7.0INT1 changes now part of E1. |
| ~~E8~~ | ~~Reorganize INT1 to exclude composite symbols~~ | ~~L~~ | ~~Reported redundancy to HSSC8; can now be removed~~ |  |  | ~~P~~ | ~~INT1 sub-WG~~ | ~~INT1~~ | ~~Not to be progressed at present; use CSPCWG10-11.2A when progressed.~~~~NCWG2: Remove (redundant)~~ |
| E9 | Develop new section V for INT1 for ‘data quality’ | M | Draft to WGNCWG3 Agenda 11.2 | 2014 | 2017 | O | Chair NCWGAU | INT1 | CSPCWG10 Action 35 |
| E10 | Symbol library | L |  | 2016 | ? | O | UK (J Carey)US (C Harmon) | S-4, INT1 | NCWG Actions 45, 46 |
| H1 | Liaise with IHO subsidiary bodies and subordinate organs, e.g. WWNWS-SC, NIPWG, ENCWG, SCUFN, etc. | L | NCWG3 Agenda 7.6 | 2016 | ? | O |  | S-4, INT1, S-32 | Support the UFN Project Team, see Doc. HSSC8-07.1C INF3 |
| H2 | Prepare a single educative IHO authoritative document addressing the issue of “equivalent” T&Ps for ENCs, in view of its distribution to HOs, Port State Control authorities and mariners after approval. | M | NCWG3 Agenda 7.7 (ENCWG-2) | 2016 | 2017 | P | NCWG Chair and ENCWG Chair | S-66 Stage 2? | HSSC8/28 |
| H3 | Consider the paper on the “visualization of bathymetric uncertainties data in S-101” (Doc. HSSC8-05.6B INF6) and develop appropriate recommendations on the way forward. | M | NCWG3 Agenda 7.8 & 8.4 | 2016 | 2017 | P | NCWG Chair | S-101 | HSSC8/39 |

**G. CSPCWG Meetings** (IHO T2.3.1 refers)

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| **Date** | **Meeting** | **Location** | **Meeting** | **Date** | **Meeting** | **Location** |
| 03-05 Nov 04 | CSPCWG 1  | IHB, Monaco | CSPCWG 1  | 28-30 April 2015 | CSPCWG 11/NCWG1 | Rostock, Germany |
| 19-21 Oct 05 | CSPCWG 2 | IHB, Monaco | CSPCWG 2 | 26-29 April 2016 | NCWG2 | IHB, Monaco |
| 22-24 Nov 06 | CSPCWG 3 | IHB, Monaco | CSPCWG 3 | 16-19 May 2017 | NCWG3 | ESRI HQ, Redlands, CA, USA |
| 13-15 Nov 07 | CSPCWG 4 | IHB, Monaco | CSPCWG 4 | NCWG3 Agenda 16 | NCWG4 | NCWG3 Agenda 16 |
| 18-21 Nov 08 | CSPCWG 5 | Sydney, Australia | CSPCWG 5 |  |  |  |
| 01-03 Dec 09 | CSPCWG 6 | IHB, Monaco | CSPCWG 6 |  |  |  |
| 23-26 Nov 10 | CSPCWG 7 | Simon’s Town, S Africa | CSPCWG 7 |  |  |  |
| 29 Nov–02 Dec 11 | CSPCWG 8 | Turku, Finland | CSPCWG 8 |  |  |  |
| 13-16 Nov 12 | CSPGWG 9 | Seoul, Rep of Korea | CSPGWG 9 |  |  |  |
| 21-24 Jan 2014 | CSPCWG 10 | Wellington, New Zealand | CSPCWG 10 |  |  |  |

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