



**15<sup>TH</sup> MEETING OF THE IHO DATA QUALITY WORKING GROUP  
(DQWG-15)  
4-7 FEBRUARY, MONACO, PRINCIPALITY OF MONACO**

References:

- A. DQWG Terms of Reference – 9<sup>th</sup> HSSC Meeting (Ottawa, Canada).
- B. HSSC-11 List of Decisions and Actions.
- C. DQWG-14 Minutes of the Meeting

Dear Data Quality Working Group member,

1. As announced in Reference C, the 15<sup>th</sup> meeting of the IHO Data Quality Working Group will take place from the 4<sup>th</sup> to the 7<sup>th</sup> of February 2020 at the IHO Secretariat in Monaco.
2. This Letter provides recommendations for the preparation of the meeting, general information and a draft agenda and timetable.
3. Participation in DQWG-15 is open to all IHO Member States, Expert Contributors and Accredited NGIO Observers being a member of the DQWG. Expert Contributor membership is open to entities and organisations that can provide a relevant and constructive contribution to the work of the WG.

**Venue and Accommodation**

4. The meeting will be held in the Conference Room at the IHO Secretariat in Monaco. General and logistical information can be found at [www.iho.int](http://www.iho.int) > Home > Visiting the IHO Secretariat.
5. Members and attendees are encouraged to book their hotel at their earliest convenience.

**Registration**

6. All delegate intending to participate in DQWG-15 are invited to register through the IHO online registration system no later than **27 January 2020**.

**Actions arising from DQWG-14 and HSSC-11**

7. The current status of actions arising from DQWG-14 (see reference C) is available on the IHO website ([www.iho.int](http://www.iho.int) > IHO Council, Committees & WGs > DQWG > 14<sup>th</sup> meeting > Documents > Final Minutes, version dated 11 March 2019).
8. The current List of Decisions and Actions from HSSC-11 affecting the tasks of the DQWG is available on the IHO website ([www.iho.int](http://www.iho.int) > IHO Council, Committees & WGs > HSSC > HSSC-11 > Documents).



9. Due to the transverse role of the DQWG, advising other HSSC WGs/PTs as well as IRCC WGs/PTs (upon request), various documents of DQWG-15 are available under the appropriate WG/PT. A link to the appropriate location is provided at the end of the Draft Agenda in Annex-A.
10. A draft agenda and timetable for DQWG-15 is provided in Annex A. Member States and Observers are requested to review the draft agenda and provide any comments or proposals for new or amended subjects to the DQWG Chair by **27 January 2020**. If necessary, a revised draft agenda and timetable will be prepared and posted on the IHO website.
11. HSSC has high expectations from the DQWG, especially after the release of Ed 1.0.0 of many S-100 PS. According to HSSC Decision 11/26 (HSSC endorsed the concept of S-100 Technical Readiness Levels), any S-100 PS at Ed.1.0.0 or higher should start to develop Data Quality Checks and Data Validation procedures. DQWG has the task to review S-100 based product specifications to ensure the data quality aspects have been taken into consideration and provide input papers for WGs and PTs consideration if deemed necessary (see reference A).
12. Delegates are invited to note that the plenary meeting will start on Tuesday, 4 February 2020 at 09:00, and is expected to end on Friday, 7 February at 12:30. Participants are advised to plan their travel arrangements accordingly.
13. According to the Terms of Reference (see reference A), the DQWG should work by correspondence, group meetings, workshops or symposia. The WG should meet as necessary. Proposals for hosting DQWG-16 in February 2020 are welcome at any time and preferably at **DQWG-15**.

Yours sincerely,

Rogier Broekman  
DQWG Chair

#### Distribution

Data Quality Working Group members  
Chairs of HSSC WGs and PTs  
Chairs of CSBWG and MSDIWG  
Chair and Vice Chair of HSSC



**DATA QUALITY WORKING GROUP 15**  
**IHO SECRETARIAT, MONACO**  
**4-7<sup>TH</sup> February 2020**

**DRAFT AGENDA & TIMETABLE**  
(version 03 December 2019)

The meeting will start at 09.00h on Tuesday, Wednesday, Thursday and Friday.

The meeting will end at 17.00h on Tuesday, Wednesday and Thursday.

On Friday, the meeting will end at 12.30h.

Coffee breaks at 10.30h and 15.15h daily. Lunch breaks 12.30h-14.00h daily.

Group photo will take place on DAY1 at 10.30h

Document Prefix no.	Agenda item	Item/Document Title	Lead	Time
<b>TUESDAY 4<sup>TH</sup> FEBRUARY (DAY 1)</b>				
		<b>Registration</b>		
<b>1. Opening and administrative arrangements</b>				
DQWG15-	01.1A	Welcome and organizational arrangements	Chair, IHO Secr. (oral)	09.00-10.00
DQWG15-	01.1B	Introduction by members	Chair, All (oral)	
DQWG15-	01.1C	Adoption of the agenda - Program outline	Chair	
DQWG15-	01.2A	DQWG Terms of Reference	Chair (oral)	
DQWG15-	01.3A	DQWG page on www.iho.int	Chair, IHO Secr (oral)	
<b>2. Matters relating to upper IHO bodies / other WGs/PTs</b>				
DQWG15-	02.1A	HSSC presentation at C-3 (ref C3-04.1A) <sup>1</sup>	Chair (oral)	10.00-10.30
DQWG15-	02.1B	HSSC-11 Report and List of Decisions and Actions. <sup>2</sup>	Chair (oral)	
DQWG15-	02.2A	Report from S-100 Working Group	Powell	
DQWG15-	02.2B	Report from ENC Standards Maintenance Working Group	Mellor	
DQWG15-	02.2C	Report from Nautical Cartography Working Group	Hovi	
DQWG15-	02.2D	Report from Nautical Information Provision Working Group	Furstenberg	
DQWG15-	02.2E	Report from Tides, Water Level and Currents Working Group	Jan	
DQWG15-	02.2F	Report from HSPT	Vrignaud	
<b>3. Previous DQWG meeting and status of actions</b>				
DQWG15-	03.1A	Events since DQWG-14	Chair (oral)	11.00-12.30
DQWG15-	03.1B	HSSC11-05.5C Comment by INTERTANKO on HSSC11-05.5A regarding the development of S-67 <sup>2</sup>	INTERTANKO	
DQWG15-	03.1C	S-101PT4-3.5 Validation Checks <sup>3</sup>	ENCWG/DK	



DQWG15-	03.1D	S-101PT4-4.9 DQWG Quality of Bathymetric Data Visualization and Validation Checks <sup>3</sup>	Chair	
DQWG15-	03.1E	S-101PT4-05.4 Quality of Horizontal Measurement <sup>3</sup>	FR (David)	
DQWG15-	03.1F	S-100 TSM7-5.5 Data Quality <sup>4</sup>	Chair	
DQWG15-	03.1G	S-100 TSM7-7.6 Quality of Bathymetric Data and ECDIS performance <sup>4</sup>	AU (Sanchez)/Chair	
DQWG15-	03.1H	CSBWG8-4.1.1 B-12 (IHO Guidance on Crowdsourced Bathymetry) Ed.2.0.0 (paragraph 4.2.4.3) <sup>5</sup>	Chair (oral)	
DQWG15-	03.1I	NCWG5-04.6B Using data quality for safe navigation <sup>6</sup>	Chair/IHO Sec./ FI (Mononen) (oral)	
DQWG15-	03.1J	NIPWG7-38.1 Rev2 Using data quality for safe navigation <sup>7</sup>	Chair/IHO Sec. (oral)	
DQWG15-	03.2A	DQWG-14 Minutes	Chair	
DQWG15-	03.2B	Status of Actions from DQWG-14	Chair	
<b>4. Data quality educational material for the use of mariners (ToR 3b.v)</b>				
DQWG15-	04.1A	S-67 Mariner's Guide to Accuracy of Depth information in ENCs version 0.9 <sup>8</sup>		14.00-17.00
<b>WEDNESDAY 5<sup>TH</sup> FEBRUARY (DAY 2)</b>				
DQWG15-	04.1A	S-67 Mariner's Guide to Accuracy of Depth information in ENCs version 0.9 <sup>8</sup>		09.00-10.30
<b>5. Review S-100 based product specifications on DQ aspects (ToR 3b.ii)</b>				
DQWG15-	05.1A	HSSC11-05.1D S-100 Technical Readiness Levels <sup>2</sup>	Chair	10.50-12.30
DQWG15-	05.2A	S-97_EN_Guidance for PS Developers_Part C - Data Quality_Ed1.0.0 <sup>9</sup>	Chair	14.00-15.15
DQWG15-	05.1B	Data Validation ISO principles <sup>10</sup>	Chair	15.35-17.00
DQWG15-	05.2A	S-101 ENC PS Edition 1.0.0 (including DCEG) <sup>11</sup>	Chair/Vice-Chair	
DQWG15-	05.2B	S-102 Bathymetric Surface PS Ed.2.0.0 <sup>11</sup>	Chair	
DQWG15-	05.2C	S-111 Surface Currents PS Ed.1.0.0 <sup>11</sup>	Chair	
DQWG15-	05.2D	S-121 Maritime Limits and Boundaries PS Ed.1.0.0 <sup>11</sup>	Chair	
DQWG15-	05.2E	S-122 Marine Protected Areas PS Ed.1.0.0 <sup>11</sup>	Chair	
DQWG15-	05.2F	S-123 Marine Radio Services PS Ed.1.0.0 <sup>11</sup>	Chair	
DQWG15-	05.2G	S-129 Under Keel Clearance Management PS Ed.1.0.0 <sup>11</sup>	Chair	
<b>THURSDAY 6<sup>TH</sup> FEBRUARY (DAY 3)</b>				
<b>6. Review appropriate methodology for the display of quality information (ToR 3b.vi)</b>				



DQWG15-	06.1A	Visualization of Quality of Bathymetric Data (task HSSC11/50) -> Using data quality for safe navigation <sup>7</sup>	Chair	09.00-10.30
DQWG15-	06.1B	Proof of Concept – Test results from DQWG members	Chair, All	10.50-12.30
DQWG15-	06.1C	Serious testing: New York - Miami	Chair/Vice-Chair	14.00-15.15
DQWG15-	06.2A	Paper from Center for Coastal & Ocean Mapping, UNH/NOAA Joint Hydrographic Center	CCOM-UNH-NOAA JHC (Kastrisios)	
DQWG15-	06.3A	Feedback from NCWG and NIPWG meetings on Proof of Concept	Chair / IHO Secr.	15.35-17.00
DQWG15-	06.3B	Discussion on items 06.1A to 3A	All	
DQWG15-	06.4A	Using data quality for safe navigation – facilitate maritime autonomous surface shipping (MASS)	Chair (oral)	
DQWG15-	06.5A	Paper for HSSC12	Chair, All	
<b>FRIDAY 7<sup>th</sup> FEBRUARY</b>				
<b>7. Provide guidance on data quality aspects to HOs, in particular to ensure harmonized implementation (Tor 3b.iv)</b>				
DQWG15-	07.1A	Guidance for Encoding and Charting the Bathymetric Data Quality objects in S-101 ENCs v20190606	Vice-Chair	09.00-10.30
DQWG15-	07.1B	Data Validation ISO principles combined with results from item 5c-5i	Chair/Vice Chair/IHO Secr. (oral)	10.50-11.30
<b>8. HSSC-12</b>				
DQWG15-	08.1A	Review of decisions and actions	Chair, All	11.30-
DQWG15-	08.1B	DQWG Work plan update	Chair, All	12.15
DQWG15-	08.2A	Key priorities/risks/issues	Chair, All	
DQWG15-	08.3A	Report and Recommendation to HSSC12	Chair, All	
<b>9. DQWG-16</b>				
DQWG15-	09.1A	Time and venue	All	12.15-
DQWG15-	09.2A	Election of Chair and Vice Chair after 2 <sup>nd</sup> Session of the IHO Assembly	All	12.30
DQWG15-	09.3A	Closure of meeting	Chair, All	
<b>MEETING ENDS</b>				<b>12.30</b>

<sup>1</sup> see iho.int > IHO Council, Committees & WGs > Council > C3 > Documents

<sup>2</sup> see iho.int > IHO Council, Committees & WGs > HSSC > HSSC 11 > Documents

<sup>3</sup> see iho.int > IHO Council, Committees & WGs > S-100WG > S-101PT Meeting (13-14 June) > Documents

<sup>4</sup> see iho.int > IHO Council, Committees & WGs > S-100WG > S100TSM7 > Documents

<sup>5</sup> see iho.int > IHO Council, Committees & WGs > CSBWG > CSBWG8 > Documents

<sup>6</sup> see iho.int > IHO Council, Committees & WGs > NCWG > NCWG5 > Documents

<sup>7</sup> see iho.int > IHO Council, Committees & WGs > NIPWG > NIPWG7 > Documents

<sup>8</sup> see iho.int > IHO Council, Committees & WGs > DQWG > DQWG Letters for 2019

<sup>9</sup> see iho.int > IHO Council, Committees & WGs > S-100WG > Miscellaneous

<sup>10</sup> see iho.int > IHO Council, Committees & WGs > CSBWG > CSBWG8 > Documents > Presentations

<sup>11</sup> see iho.int > Standards and Publications > IHO publications > S-1xx