



14th Meeting of the Hydrographic Services and Standards Committee

Report of the Geospatial Maritime Working Group Technical Panel (GMWG TP)

GMWG TP Chair AI ARMSTRONG

Agenda Item 07.8Ab

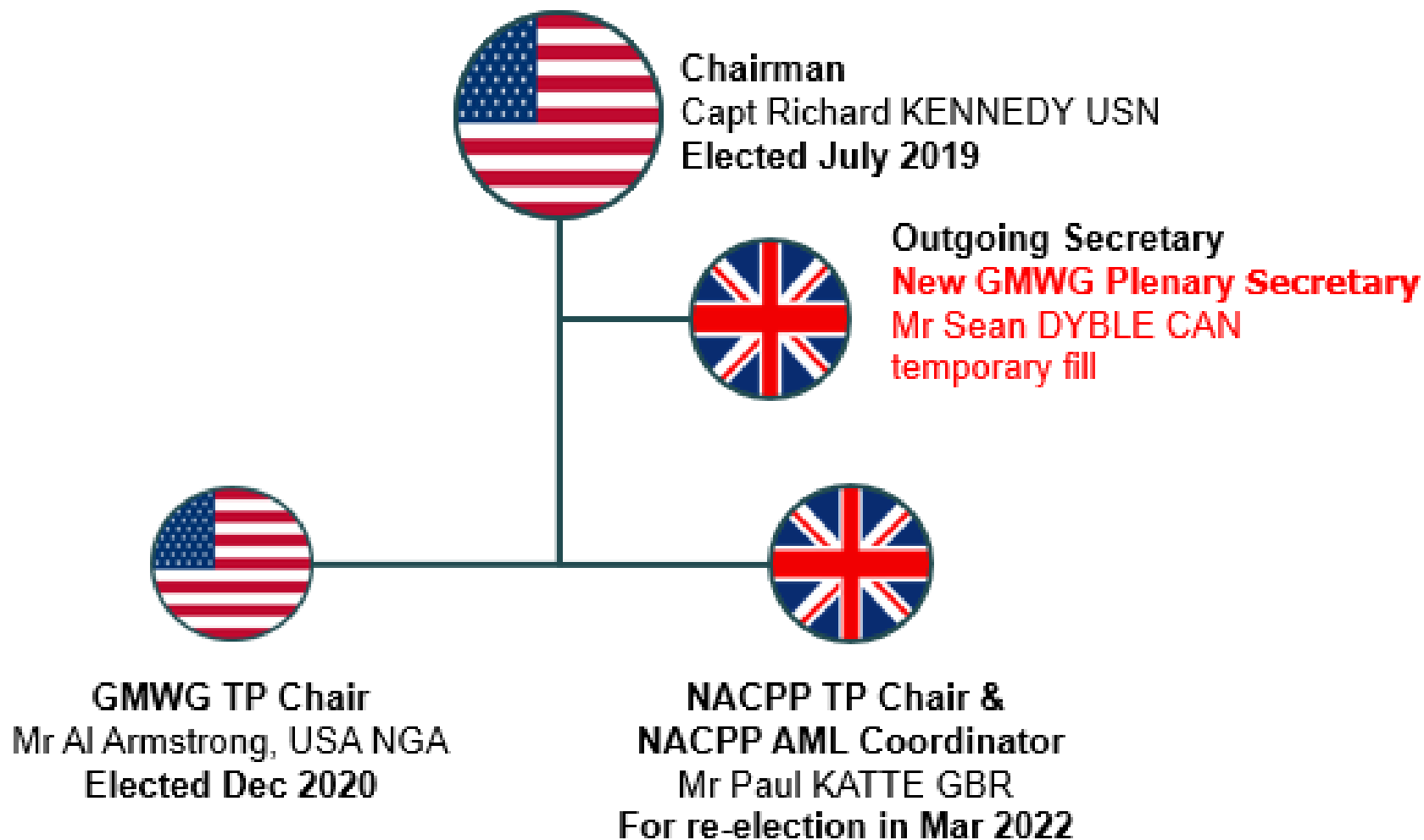
HSSC-14, Denpasar, Bali, Indonesia - Hybrid Event, 16 – 19 May 2022



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GMWG KEY POSITIONS

International
Hydrographic
Organization





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MEETINGS HELD DURING REPORT PERIOD

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1. Virtual GMWG TP Industry Session 09-10 Mar 2021
2. Virtual GMWG Plenary and TP: 10-12 May 2021
3. Virtual GMWG TP: 29-30 Nov 2021
4. Hybrid GMWG Plenary and TP: 14-18 Mar 2022,
Gdansk, POL.



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PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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1. Technical Development

- Maintaining existing standards and Additional Military Layer (AML) product specifications.
- Developing new maritime geospatial standards to meet emerging requirements.

2. Key areas of work include:

- Managing existing IHO S-57 AML.
- Monitoring development of IHO S-100/101.
- Future AML IHO S-500 requirements capture, moving from data types to mission-specific.
- Based on requirements, develop future AML (IHO S- 500) in line with the IHO S-100 framework.



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PRINCIPAL ACTIVITIES AND ACHIEVEMENTS

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1. Notable Technical Development in the past year includes:

- Mapping of features and attributes from S-101 to the NATO Geospatial Information Model (NGIM);
- GMWG technical lead visit to Allied Maritime Command (MARCOM) to better understand use of AML data for S-500 development;
- Assessment of maritime symbology to inform DGIWG's NGIF symbology project;
- Established and reported primary and secondary GMWG POCs as Defense Domain leads to IHO Geospatial Information Registry.
- Virtual GMWG Industry Session Mar 21:
 - o Designed for GMWG to work with Industry to help smooth the transition of existing AML S-57 to future generation AML S-500 in line with S-101 development.



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PROBLEMS OR OUTSTANDING ISSUES

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1. Determining maritime defence operational layer requirements.
2. IHO GI Registry orientation and training.
3. Obtaining more technical expertise into the GMWG TP from member nations.
4. Consideration of changing name of GMWG TP to truly reflect the work of TP.



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FUTURE WORK PROGRAMME

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NATO Geospatial Maritime Working Group (GMWG) Additional Military Layers (AML) Numbers (S-501 to 525)

S-501 Routes, Areas, and Limits (RAL) **[Proof of Concept (GBR)]**

S-502 Contour Line Bathymetry (CLB)

S-503 Large Bottom Objects (LBO)

S-504 Small Bottom Objects (SBO)

S-505 Environment, Seabed and Beach (ESB)

S-506 Maritime Foundation and Facilities (MFF)

S-507 Integrated Water Column (IWC)

S-511 Amphibious Operations Layer

S-512 Mine Warfare Operations Layer

S-513 Anti-submarine Operations Layer

S-514 Naval Blockade Operations Layer

S-515 Anti-Air Operations Layer

S-516 DIVTACS Layer

S-525 Custom Design Layer



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ACTIONS REQUESTED FROM HSSC

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The HSSC is invited to:

1. Note the report.
2. Establish next IHO GI Registry orientation and training
3. Encourage IHO member states that have membership in NATO allied maritime defence to submit national maritime defence requirements to GMWG TP Chair.