

**Paper for Consideration by NCWG
S-49 Update**

Submitted by:	USA/NGA
Executive Summary:	Brief summary outlining the intention of the paper
Related Documents:	NIPWG Letter 5/2018; NIPWG5-08.7 Underkeel Clearance Management (UKCM) Systems in S-49; S-49 Standardization of Mariners' Routeing Guides, Ed. 2.0.0, April 2010
Related Projects:	

Introduction / Background

The Nautical Information Provision Working Group (NIPWG) is considering the review of the Standardization of Mariner's Routeing Guides (S-49). The current edition of S-49 (Edition 2.0.0) was prepared in 2009 and issued in 2010. The initial impetus for reviewing/updating S-49 was the development of Dynamic Underkeel Clearance Management (UKCM) Systems in the early 2010s. The first versions of Dynamic UKCM Systems became operational in Australia (Underkeel Clearance Management System in the Torres Strait) in 2011 and Canada (St. Lawrence Seaway Draft Information System) in 2012, after S-49 Edition 2.0.0 was issued. NIPWG is looking for feedback on the suggestions for additions to S-49.

Analysis / Discussion

The Subject Matter for inclusion in the Mariners' Routeing Guide is broken down into three categories:

- Essential (E)—Major importance to the safety of navigation.
- Useful (U)—Important to safe navigation in a particular geographic area, helpful to the mariner, and collected in a single document.
- Not appropriate (N)—does not contribute to the safety of navigation or may reduce the safety of navigation by its inclusion.

The following are preliminary new ideas to consider for the review of S-49:

- 1) Is there new information that would be suitable for inclusion in the E/U/N Subject Matter categories?
 - a) New E4.3—Areas to be Avoided?
 - b) New E4.4—Vessel Traffic Service? Or is this adequately covered in E4.1— Vessel Reporting Systems?
 - c) New U6.6—Volcanic or earthquake activity?
 - d) New N8.2—AIS?
- 2) Is the current information in S-49 in the proper E/U/N Subject Matter categories?
- 3) Is there any current information in the E/U/N Subject Matter categories that could be deleted?
- 4) Is the information in the Item or Special Comments boxes adequate? Do any need to be

revised or updated?

- a) Current E2.3: Change Item box to read “Underkeel clearance criteria, including Underkeel Clearance Management Systems, and specific advice to deep draft vessels.”
- 5) Section 4 lists the Mariners’ Routeing Guides available as of November 2009 (Netherlands—2, Germany—2, and United Kingdom—3). Three ways forward are available:
- a) Update this section with all currently available Mariners’ Routeing Guides,
 - b) Replace the list of available Mariners’ Routeing Guides with links to the appropriate Hydrographic Office’s on-line chart/publications catalogues, or
 - c) Delete this section in its entirety.
- 6) Any additional changes/modifications to Sections 1, 2, or 3.

Conclusions

NCWG (formerly CSPCWG) experience in prior maintenance can be beneficial in the current updating status of S-49.

Recommendations

Justification and Impacts

Action required of NCWG

The NCWG is invited to:

- a. Review the proposed the changes and provide feedback.
- b. Propose any additional additions or deletions to S-49.
- c. Please submit your feedback to Michael Kushla (US-NGA) at Michael.S.Kushla@nga.mil by 30 November 2018.