Paper for Consideration by TSMAD

S-58 Tests Datasets UK

Submitted by:	UK
Executive Summary:	This paper presents work done to prepare test data for S-58 by the UK. It explains the limitations of the work completed to date and considers how the work might be taken forward through TSMAD.
Related Documents:	a) S-58 4.2.0
	b) TSMAD 25 4.7.1
Related Projects:	S-58 5.0.0

Introduction / Background

1. As part of the revision of S-58 discussed at TSMAD 24 the need for test data was recognised. As reported in TSMAD 25 4.7.1 the USA has developed test data for a large proportion of the checks based on the current S-58 edition 4.2.0. This paper presents complimentary work undertaken by the UK to assist this work and support the creation of robust test data to support S-58 5.0.0 in the future.

Analysis/Discussion

2. The UK has produced test data for almost all of the remaining S-58 checks based on edition 4.2.0 content. These are provided with this paper and consist of datasets organized by check number with a brief explanation in a readme.txt file alongside the data.

3. This work provides a start point for further work and by merging with the test data provided by the USA and revising to reflect S-58 5.0.0 changes a baselined set of test data can be produced.

4. The following notes apply to the test data sets

    - Catalog CRC – The catalogue file CRCs need to be corrected for some of the cells.

    - The test cases need to be documented in a standard format in order to provide appropriate guidance for users in a clear and concise way. A change management and tracking system should be put in place to enhance the test data over time by capturing new tests and making existing tests more comprehensive

    - A small number of checks remain to be completed

    - Check 2000 has not been addressed.

Conclusions

4. The UK has developed test data to support the development of test data for S-58 5.0.0. It requires further development as outlined in this paper but can be considered along with the work provided by the USA as a baseline for further development.

Recommendations

      a)   TSMAD should note the test data and consider how this can be taken froward to provide test data to accompany S-58 5.0.0

Justification and Impacts

Test data will ensure that validation software reflects the test in S-58 5.0.0 and is consistent. This will assist Hydrographic offices in meeting minimum validation checks and avoid the need to run checks in different software.

Action Required of TSMAD

The TSMAD is invited to:

      a.   endorse the recommendation to develop test data for S-58 5.0.0 based on the work by the UK and the USA