**Input paper:** ENG21-3.1.2.3

**Input paper for the following Committee(s): Purpose of paper:**

（Select as appropriate）

ARM ENG  PAP Input

DTEC VTS  Information

**Agenda item** [[1]](#footnote-1) n.n

**Technical Domain / Task Number** 2 Task 7.1.2

**Author(s) / Submitter(s)** CHINA MSA

Draft of S-241 PNT Station almanac

# summary

Based on the discussion at the 20th session of the ENG Committee and S-200 work, China MSA drafted S-241 PNT(Positioning, Navigation, and Timing) Station almanac, including the product specification and the appendixes for further discussion by the 21th session of the Committee.

## Purpose of the document

The attached documents is the draft product specification relevent to the task of S-241 PNT Station Almanac, with the aim of pushing forward the task.

## Related documents

1. IALA Committee work programme 2025-2027
2. C02-10.3.1 ENG20 summary report
3. C02-10.6.1 Report on S-200 PS development rev1
4. S-240 DGNSS Station almanac (1.2.0)
5. S-245: eLoran ASF Data (1.0.0)
6. S-246: eLoran Station almanac (1.0.0)
7. S-247: Differential eLoran Reference Stations almanac (1.0.0)

# background

PNT (Positioning, Navigation, and Timing) refers to positioning, navigation, and timing services. The product specifications related to S -241 PNT Station almanac proposed by IALA aims to enhance the performance and interoperability of maritime navigation systems. By developing S -241 PNT Station almanac product specification, it can be used to exchange PNT Station almanac information in a consistent form between Lighthouse Authorities, Hydrographic Offices and other organizations, including commercial and professional agencies.

# discussion

**3.1 Contents of the Specification**

Main document

The PNT Station almanac Product Specification follows the format set out in the IHO Standard S-100 for geo-spatial information. This describes the scope, data content and structure, specifies procedures for data maintenance and quality and details the encoding of the data.

**3.2 Annexes**

The annexes provide information about use of the specification, as described in the following table.

|  |  |
| --- | --- |
| Title | Description |
| Annex A DCEG（to be developed） | The Data Classification and Encoding Guide has been developed to produce consistent and standardized instructions for encoding S-241 datasets. |
| Annex B Data Product Format Schemas（to be developed） | This package contains the S-100 Part 10b compliant GML schemas for the specification of the data product encoding for S-241 datasets. |
| Annex C Feature Catalogue | This package is generated from the accompanying XML S-241 feature catalogue and presents the feature catalogue in a reader-friendly form. In its current form, it is intended to facilitate reviews of the content of the XML feature catalogue. |
| Annex D Portrayal Catalogue | The package contains the S-241 portrayal catalogue. |

# reference

1. S-100 IHO S-100 Universal Hydrographic Data Model
2. S-97 IHO Guidelines for Creating S-100 Product Specifications
3. S-101 IHO Electronic Navigational Chart (ENC) Product Specification

[4] S-125 IALA Maritime Aids to Navigation(AtoN) Ed1.0.0

[5] S-201 IALA Product Specification (Edition 2.0.0)

[6] G1106 IALA Producing an IALA S-200 Series Product Specification

# Action required of the committee

The Committee is invited to consider the attached draft product specification relevent to the task of S-241 PNT Station Almanac and take actions, as appropriate.

1. Leave open if uncertain [↑](#footnote-ref-1)