

International Ice Information Documentation/Reference List Updated: February 2017

The documents described in the table below contain iceberg charting standards and references. Iceberg relevance is described in the Description column. The Status column indicates work accomplished by the IICWG Iceberg Sub-committee.

Reference Number	Title	Description	Status
WMO-No. 259	Sea Ice Nomenclature	Volume I – Terminology and codes (iceberg descriptions in section 10.4) Volume II – Illustrated Glossary Volume III – International System of Sea-Ice Symbols (ice of land origin in section 10.1 and 10.2)	Last revision: 2014 IICWG Iceberg Sub-Committee submitted revision in December 2016
WMO-No. 306	Manual on Codes	Volume I of the <i>Manual on Codes</i> contains WMO international codes for meteorological data and other geophysical data relating to meteorology. It is issued in two volumes with separate covers: Volume I.1, containing PART A (Alphanumeric Codes), and Volume I.2, containing PART B (Binary Codes) and PART C (Common Features to Binary and Alphanumeric Codes). Following Code Tables have iceberg information/descriptors: 0439, 2382, 2877, 3833 NOTE: This document states that SOLAS requirements take precedence over WMO-NO.306. Volume II – Regional Codes and National Coding Practices – NO references to icebergs in Volume II	Volume I 1995 Edition Volume II updated in 2015

WMO-No. 471	Guide to Marine Meteorological Services	<p>The purpose of this <i>Guide</i> is to complement the <i>Manual on Marine Meteorological Services</i> (WMO-No. 558) by:</p> <ul style="list-style-type: none"> (a) Describing the requirements for the various types of service; (b) Explaining the rationale for the agreed methods of providing services; and, (c) Giving guidance on how to go about setting up and maintaining marine meteorological services. <p>It follows the same structure as the <i>Manual on Marine Meteorological Services</i> and cross references are provided to relevant sections of the <i>Manual</i>.</p> <p>Very general iceberg reporting requirements are in 1.2.1.8 under <i>Marine Operations</i> and again in 1.2.5.5 under <i>Offshore oil-drilling and mining operations</i>.</p>	<p>Third Edition</p> <p>Note states that this publication was supposed to be update by the end of 2010.</p>
WMO-No. 558	Manual on Marine Meteorological Services	<p>Volume I – Global Aspects Volume II – Regional Aspects</p> <p>This Manual is designed:</p> <ul style="list-style-type: none"> (a) To facilitate cooperation in respect of the international coordination of marine meteorological services (MMS); (b) To specify obligations of Members in the implementation of MMS; (c) To ensure uniformity in the practices and procedures employed in achieving (a) and (b) above; (d) To facilitate the development of adequate support from World Weather Watch (WWW) to MMS. 	<p>Last revision: 2012</p> <p>IICWG Iceberg Sub-Committee proposed updates in Feb 2017</p>
WMO-NO. 574	Sea-Ice Information Services in the World	<p>The WMO publication '<i>Sea Ice Information Services in the World</i>' (WMO No. 574) is intended to provide to mariners and other users the latest snapshot of the sea ice services available world-wide, effectively extending the WMO publication No. 9, Volume D – Information for Shipping.</p> <p>General information on sea ice and icebergs is provided in Part I and Regional ice services are described in Part II.</p>	<p>Edition 2010 (last revision 2010-03-19)</p> <p>IICWG Iceberg Sub-Committee proposed an update to Part I in Feb 2017. Regional ice services provided updates on their individual sections to NIC in Feb 2017.</p>

WMO/TD-No. 1214 (JCOMM Technical Report No. 23)	SIGRID-3: A Vector Archive Format for Sea Ice Georeferenced Information and Data	<p>This document describes Version 3.0 of SIGRID-3 (Sea Ice GeoReferenced Information and Data), an evolution of the SIGRID series of standards for coding, exchange and archiving of digital ice charts.</p> <p>IICWG proposed updates to iceberg field column names as Version 3.1.</p>	<p>Version 3.0 – May 2014</p> <p>IICWG Iceberg Sub-Committee proposed updates as Version 3.1 in Feb 2017</p>
WMO/TD-No. 1215 (extension of WMO-259 – Sea Ice Nomenclature)	Ice Chart Colour Code Standard	<p>Concentration (Ct) and Stage of Development (SoD) Colour Code Standards are given in two tables. Symbols for Bergy Water and Drifting ice of land origin (icebergs) are provided in the Ct and SoD tables, respectively.</p>	Version 1 May 2014
International Hydrographic Office (IHO) S-100	The Universal Hydrographic Data Model	<p>This paper describes the Universal Hydrographic Data Model designated S-100 that was adopted by the IHO on 1 January 2010, thereby becoming an active international standard. The S-100 Geospatial Information Registry and its supporting operational procedures described in IHO publication S-99 became active in January 2011. The introduction of these major initiatives is expected to support the digital requirements of hydrographic product specifications and services for the foreseeable future.</p> <p>This model defines standards for developing Electronic Charting products. Icebergs are not discussed in this document but it provides the reference for S-411 Product Specification</p>	Active in January 2011
Special Publication JCOMM S-411	Ice Information Product Specification	<p>This document has been produced by the BSH as part of JCOMM/ETSI in response to a requirement to produce an ice data product that can be used within Electronic Chart Display and Information Systems.</p> <p>The Ice Information product specification is based on the IHO S-100 framework specification, Geography Markup Language (GML) Encoding Standard and the ISO 19100 series of standards. It is a vector product specification that is primarily intended for encoding</p>	Edition 1.1.0, June 2014

		the extent and nature of Sea Ice <i>and icebergs</i> for navigational purpose.	
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