Ships and marine technology — Terms, abbreviations, graphical symbols and concepts on navigation
National foreword

This British Standard is the UK implementation of ISO 19018:2020. It supersedes BS ISO 19018:2004, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/80, Maritime navigation and radiocommunication equipment and systems.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2020

ISBN 978 0 580 95952 3

ICS 01.040.47; 01.080.30; 47.020.01

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2020.

Amendments/corrigenda issued since publication

| Date | Text affected |
Ships and marine technology —
Terms, abbreviations, graphical symbols and concepts on navigation

Navires et technologie maritime — Termes, abréviations, symboles graphiques et concepts relatifs à la navigation

Reference number
ISO 19018:2020(E)
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This document was prepared by Technical Committee ISO/TC 8, Ships and marine technology, Subcommittee SC 6, Navigation and ship operations.

This second edition cancels and replaces the first edition (ISO 19018:2004), which has been technically revised.

The main changes compared to the previous edition are as follows:

— Clause 2: updated referenced documents: ISO 31 deleted (its current revision, ISO 80000-3:2019, does no longer mention the nautical mile, knot, degree and minute), and changed from IEC 60872 and IEC 60936 to related original IMO resolutions;

— added Clause 3, “Terms and definitions”, and subsequent clauses renumbered;

— items 4.1.1 to 4.1.3: referenced document changed from "ISO 31-1 and/or Chart INT 1" to "Chart INT" only, as applicable;

— items 6.1 and 6.1.1: abbreviation of “course” changed from “CSE” to “CRS”, and the second sentence of the explanation of 6.1 deleted (harmonized with that in radar navigation; IEC 62288 and/or IEC 62388);

— items 6.1.1 to 6.1.15 and 7.1 to 7.5: updated "Definition, remarks" based on IMO Resolution MSC. 192 (79) (harmonized with abbreviation and definition in IEC 62288 and/or IEC 62388);

— items 6.1.1, 6.1.2 and 6.1.4: added 6.1.1 "course", 6.1.2 “heading” and 6.1.4 "course to steer" (harmonized with abbreviation and definition in IEC 62288 and/or IEC 62388);

— items 7.1 to 7.5: changed the "Definition, remarks", based on IMO Resolution MSC, 192[79];

— deleted former Clause 15, “Radar navigation”, and former Clause 16, “LORAN-C”; and former Clause 17 renumbered as new Clause 16;
new Clause 16 (former Clause 17): title changed from "Global Positioning System (GPS)" to "Global Navigation Satellite System (GNSS)";


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Ships and marine technology — Terms, abbreviations, graphical symbols and concepts on navigation

1 Scope
This document provides terms, abbreviations and graphical symbols for use in maritime navigation on board ships. Symbols for use in mathematical formulae are also given, as applicable.

2 Normative references
There are no normative references in this document.

3 Terms and definitions
For the purposes of this document, the following terms and definitions apply.

Terms, abbreviation and symbols used in navigation are given in Clauses 4 to 16. Abbreviations can prove useful, but they should not be used in mathematical formulae.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:
— ISO Online browsing platform: available at https://www.iso.org/obp

3.1 navigation
process of finding the position of a craft or vehicle, and of planning, recording and controlling its movement from one place to another

4 Special units in maritime navigation

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Name of the unit</th>
<th>International symbol</th>
<th>Definition, conversion factors and remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1 Unit of length</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1.1</td>
<td>nautical mile</td>
<td>NM</td>
<td>1 NM = 1 852 m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>in charts:</td>
<td>The nautical mile is not an SI-unit. This definition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M a</td>
<td>was adopted by the First International</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hydrographic Conference in 1929.</td>
</tr>
<tr>
<td>4.1.2</td>
<td>cable, cable length</td>
<td>cbl</td>
<td>One-tenth of a nautical mile. The cable is not an</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SI unit.</td>
</tr>
</tbody>
</table>

a Symbol M is to be used in Charts according to the “Chart Specifications of the IHO” which came into force at the XIth International Hydrographic Conference 1982 in Monaco.