INTERNATIONAL HYDROGRAPHIC ORGANIZATION



ORGANISATION HYDROGRAPHIQUE INTERNATIONALE

IHB File No. S3/8151/GLO & S3/7050

CIRCULAR LETTER 65/2007 17 July 2007

TRANSFER OF GLOSSARY OF ECDIS RELATED TERMS FROM S-52 APPENDIX 3 TO ECDIS GLOSSARY (S-32 APPENDIX 1)

Dear Hydrographer,

1 The 16th and 17th sessions of the Committee on Hydrographic Requirements for Information Systems (CHRIS) reviewed the Glossary of ECDIS related Terms (S-52 Appendix 3) and forwarded a revised set of definitions to the Committee on the Hydrographic Dictionary (CHD) for incorporation into the Hydrographic Dictionary (S-32).

2 The CHD has reviewed these terms and prepared an ECDIS Glossary (S-32 Appendix 1) which is attached at Annex A. The CHD considered that a few of the terms were more general in nature and did not merit a definition commencing "In ECDIS". These terms are shown in Annex B. The CHD will review the definitions in Annex B further and decide which it considers to be appropriate for inclusion in S-32.

3 It is intended that S-32 Appendix 1 will be available as a separate downloadable PDF file from the IHO web site. These definitions will also be included in the online version of S-32 where a search on "ECDIS" will produce all the definitions. The translation of these definitions into French and Spanish is now necessary and the CHD would welcome offers of assistance from Member States to complete this task.

4 Member States are requested to provide comments on the ECDIS Glossary by 24 September 2007 at which point it is intended to make the Glossary available from the IHO web site.



President

Annex A:Proposed S-32 Appendix 1 - Glossary of ECDIS TermsAnnex B:List of terms not included in S-32 Appendix 1 being considered for inclusion in S-32

IHO Hydrographic Dictionary ECDIS Glossary (S-32 Appendix 1)		
alarm	In ECDIS a device or system which alerts by audible means, or	
	audible and visual means, a condition requiring attention.	
all other information	In ECDIS used to describe information additional to the	
	STANDARD DISPLAY. Also called "ON-DEMAND	
	INFORMATION".	
application profile	In ECDIS used in reference to data structure. An application	
	profile is defined for a specific purpose, such as the transfer of	
	ENC DATA.	
applier	In ECDIS used for an ENTITY controlling the application of	
	the UPDATE INFORMATION, e.g. the mariner keying in	
	update information, or software inside ECDIS automatically	
	processing the ENC update information.	
area	In ECDIS the 2-dimensional GEOMETRIC PRIMITIVE of an	
	OBJECT that specifies location.	
attribute	In ECDIS a characteristic of an OBJECT, usually of a charted	
	feature. It is implemented by a defined ATTRIBUTE	
	LABEL/CODE, acronym, definition and applicable values. In	
	the DATA STRUCTURE, the attribute is defined by its	
	LABEL/CODE. Attributes are either qualitative or	
	quantitative.	
attribute label/code	In ECDIS, a fixed length numeric label or a 2-byte unsigned	
	Integer code of an ATTRIBUTE.	
attribute value	In ECDIS, a defined characteristic of an ATTRIBUTE	
	LABEL/CODE.	
automatic updating	In ECDIS, either the SEMI-AUTOMATIC or the FULLY	
	AUTOMATIC means of updating the ENC/SENC.	
back-up arrangement	In ECDIS, facilities enabling safe take-over of ECDIS	
	functions and measures facilitating means for safe navigation of	
	the remaining part of the voyage in case of ECDIS failure.	
base data	In ECDIS, the S-57 conforming data at the data producer's site	
	that does not contain any UPDATE RECORDS. Once this data	
	is exchanged, it becomes TARGET DATA at the APPLIER's	
cartographic object	In ECDIS, a FEATURE OBJECT which contains information	
	about the cartographic representation (including text of real	
11	world ENTITIES.	
cell	In ECDIS the basic unit of ENC DATA covering a defined	
	geographical area bounded by two meridians and two parallels.	
chain node	In ECDIS the data structure in which the geometry is described	
	in terms of EDGES, ISOLATED NODES and CONNECTED	
	NODES. Edges and connected nodes are topologically linked.	
	NODES are explicitly coded in the DATA STRUCTURE.	
chart amendment patch	see CHARTLET	
chart cell	see CELL	
clutter	In ECDIS excess information or noise data on a DISPLAY or	
	CHART, reducing legibility.	

по пушодіа	pric Dictionary ECDIS Glossary (S-32 Appendix 1)
collection object	In ECDIS a FEATURE OBJECT describing the RELATIONSHIP between other OBJECTS.
colour calibration	In ECDIS, in order to reproduce the IHO colours for ECDIS, a colour calibration at the monitor must be performed to transform the CIE-specified colours for ECDIS into the colour coordinate system of the screen. Calibration will ensure correct colour transfer at the time a DISPLAY leaves the manufacturer's plant.
colour differentiation test diagrams	In ECDIS - screen diagrams supplied in the PRESENTATION LIBRARY for use by the mariner to check brightness and contrast settings and to find out whether the screen still has the capability of distinguishing the important colours.
colour fill	In ECDIS the use of colour to fill the interior area of a chart symbol to make it more readily recognizable,
	In ECDIS a method of distinguishing different area features by filling areas with colour. "Transparent" colour fill is used to allow information to show through the fill, e.g., soundings in a traffic separation zone.
compilation scale	In ECDIS the SCALE at which the DATA was compiled.
compilation update	In ECDIS the CORRECTION INFORMATION which has been issued since the last new edition of the ENC or since the last OFFICIAL UPDATE applied to the SENC, compiled into a single, comprehensive ENC UPDATE.
connected node	In ECDIS a NODE referred to as a beginning and/or end node by one or more EDGE. Connected nodes are defined only in the CHAIN-NODE, PLANAR GRAPH and FULL TOPOLOGY data structures
correction information	See UPDATE INFORMATION
course up display	In ECDIS (or radar) the information shown on the DISPLAY with the direction of the vessel's course upward.
cumulative update	In ECDIS, the collection of all sequential CORRECTION INFORMATION which has been issued since the last new edition of the ENC or since the last OFFICIAL UPDATE applied to the SENC
cursor-pick	In, ECDIS, the process of querying a point-symbol. Line or area for further information from the data base which is not represented by the SYMBOL.
data dictionary	In ECDIS, conveys the meaning of ENTITIES and ATTRI- BUTES, the RELATIONSHIP between entities and attributes and the relationship between attribute and value domains.

	plice Dictionary ECDIS Clossary (S-52 Appendix 1)
data model	In ECDIS a conceptual specification of the sets of components and the RELATIONSHIPS among the components pertaining to the specific phenomena defined by the model reality. A data model is independent of specific systems or DATA STRUCTURES.
data quality indicator	In ECDIS an indication of reliability and ACCURACY of surveys of a particular area provided through relevant ATTRIBUTE of the quality of data META OBJECT in the IHO TRANSFER STANDARD.
data structure	In ECDIS a computer interpretable format used for storing, accessing, transferring and archiving data.
digitizing conventions	See ENCODING CONVENTIONS
display base	See DISPLAY CATEGORY
display category	In ECDIS, three categories for SENC objects are established in the ECDIS PERFORMANCE STANDARDS: display base: permanently retained on the display standard display: displayed at switch-on, recalled by single operator action, ALL OTHER INFORMATION: displayed individually (by class) on demand
display generator	In ECDIS the manufacturer's software which takes an OBJECT from the SENC, assigns a symbol and colour, and presents it appropriately on the DISPLAY, using the tools and procedures provided in the PRESENTATION LIBRARY
display priority	In ECDIS, detailed rules to decide which line or point SYMBOL is to be shown when two OBJECTS overlap. Priority 2 overwrites 1. Display priority is given in the LOOK- UP TABLE
display priority layer	In, ECDIS, layers to establish the priority of information on the DISPLAY. Lower priority information must not obscure higher priority information
display scale	In ECDIS the ratio between a distance on the display and a distance on the ground, normalised and expressed for example 1/10,000 or 1:10,000
drawing sequence	In ECDIS the implementation of DISPLAY PRIORITY.
ECDIS Chart 1	An ECDIS version of IHO INT 1, including all SYMBOLS, line styles and colour coding used for chart and navigation symbols, contained in the PRESENTATION LIBRARY
edge	In ECDIS, a one-dimensional SPATIAL OBJECT, located by two or more coordinate pairs (or two CONNECTED NODES) and optional interpolation parameters. If the parameters are missing, the interpolation is defaulted to straight line segments between the coordinate pairs. In the CHAIN-NODE, PLANAR GRAPH and FULL TOPOLOGY data structures, an edge must reference a connected node at both ends and must not reference any other NODES

IHO	Hydrographic	Dictionary	ECDIS	Glossary	(S-32 Appendix 1)
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Electronic Chart Data Base	In ECDIS the master data base for electronic navigational chart
(ECDB)	data, held in digital form by the national hydrographic
	authority.
Electronic Chart Display	A navigation information system which with adequate BACK-
and Information System	UP ARRANGEMENTS can be accepted as complying with
(ECDIS)	SOLAS Chapter V requirements, by displaying selected
	Information from a SYSTEM ELECTRONIC
	NAVIGATIONAL CHART (SENC) with positional
	DOUTE DI ANNING and DOUTE MONITODING and if
	required display additional navigation related information
Electronic Chart System	Navigation information system that electronically displays
(FCS)	vessel position and relevant nautical chart data and information
(ECS)	from the ECS database on a display screen, but does not meet
	all IMO requirements for FCDIS and does not satisfy SOI AS
	Chapter V requirement to carry a navigational chart
ENC cell structure	See CELL
ENC product specification	In ECDIS the IHO Standard which specifies the content,
1 1	structure and other mandatory aspects of an ENC
ENC test data set	In ECDIS a standardized data set supplied on behalf of the
	INTERNATIONAL HYDROGRAPHIC ORGANIZATION
	(IHO) that is necessary to accomplish all IEC testing
	requirements for ECDIS.
encapsulation	In ECDIS the identification of FIELDS and RECORDS and the
	grouping of fields and records and the data syntax rules used.
encoding conventions	In ECDIS a set of rules to be followed when encoding data for
	a particular purpose.
exchange format	In ECDIS a specification for the structure and organization of
	data to facilitate exchange between computer systems.
exchange set	In ECDIS the set of FILES representing a complete, single
	purpose (i.e. product specific) data transfer. The ENC
	PRODUCT SPECIFICATION defines an exchange set which
	contains one Catalogue file and at least one data set file.
face	In ECDIS a two dimensional SPATIAL OBJECT. A face is a
	continuous area defined by a loop of one or more EDGES
	which bound it. A face may contain interior holes, defined by
	closing loops of EDGES. These interior boundaries must be
	within the outer boundary. No boundary may cross itself or
	touch itself other than at the beginning/end NODE. None of
	the boundaries may touch or cross any other boundary. Faces
	are defined only in the FULL TOPOLOGY data structure.
teature	In ECDIS a representation of a real world phenomenon
feature object	In ECDIS an OBJECT which contains the non-locational
	information about real world ENTITIES.

IHO Hydrogra	phic Dictionary ECDIS Glossary (S-32 Appendix 1)
feature record	In ECDIS a feature record is the implemented term used in the S-57 data structure for a FEATURE OBJECT (i.e. a feature object as defined in the DATA MODEL is encoded as a feature record in the DATA STRUCTURE). There are four types of feature records: GEO, META, COLLECTION, and CARTOGRAPHIC.
field	In ECDIS, a named collection of labelled subfield(s). For example, IHO ATTRIBUTE LABEL/CODE and IHO ATTRIBUTE VALUE are collected into a field named Feature Record Attribute.
file	In ECDIS, an identified set of S-57 records collected together for a specific purpose. The file content and structure must be defined by a PRODUCT SPECIFICATION.
fully automatic updating	In ECDIS the application of corrections to ENC DATA in the SENC in a fully integrated state, without human intervention.
full topology	In ECDIS a 2-dimensional DATA STRUCTURE in which the geometry is described in terms of NODES, EDGES and FACES which are all TOPOLOGICALLY linked. A PLANAR GRAPH with faces.
geo object	In ECDIS a FEATURE OBJECT which carries the descriptive characteristics of a real world ENTITY.
geometric primitive	In ECDIS one of the three basic geometric units of representation: POINT, LINE, and AREA
ground stabilization	In ECDIS a display whereby own ship position is referenced to the ground. It is usually performed in conjunction with radar/ARPA, it can be determined by computing set and drift or by the use of GPS/DGPS
head-up display	In ECDIS information shown on a display in such a fashion so that the vessel's HEADING is always pointing upward. This ORIENTATION corresponds to the visual view from the bridge in the direction of the ship's heading. This orientation may require frequent rotations of the display contents. Changing the ship's course or yawing of the vessel may render this non stabilized orientation mode unreadable. (See COURSE-UP DISPLAY)
HO-information	In ECDIS, the information content of the SENC originated by hydrographic offices. It consists of the ENC content and UPDATES to it.
identifier	See OBJECT IDENTIFIER
IHO Transfer Standard for Digital Hydrographic Data	In ECDIS a "THEORETICAL DATA MODEL", "DATA STRUCTURE", "OBJECT CATALOGUE", "ENC PRODUCT SPECIFICATION", "USE OF THE OBJECT CATALOGUE for ENC" and an "Object Catalogue DATA DICTIONARY Product Specification" for use in the exchange or transfer of digital hydrographic data
IHO test data set	See ENC test data set.

IHO Hydrogra	phic Dictionary ECDIS Glossary (S-32 Appendix 1)
isolated node	In ECDIS an isolated zero-dimensional SPATIAL OBJECT that represents the geometric location of a point FEATURE.
Issuing Authority	In ECDIS the official agency which issues nautical chart and updates including ENC's and ENC UPDATES.
key	In ECDIS, an identifier which establishes linkages, e.g. between different LAYERS, or FEATURES and ATTRIBUTES.
label/code	See ATTRIBUTE LABEL/CODE
layer	In ECDIS, a group of related information displayed as a whole.
leg	In ECDIS a line connecting two WAYPOINTS
line	In ECDIS a one-dimensional GEOMETRIC PRIMITIVE of an OBJECT.
local updates	In ECDIS a generic term used to indicate all update information other than OFFICIAL UPDATES, regardless of source; for application as a MANUAL UPDATE only as opposed to automatic updates
log file	In ECDIS a record of nautical information, including time of application and identification parameters.
look-up table	In ECDIS a table giving symbology instructions to link SENC objects to point, line or area symbolisation, and providing DISPLAY PRIORITY, radar priority, IMO category and op- tional viewing group.
manual update	In ECDIS, the manual application of corrections to ENC DATA in the SENC by human operator, usually based on unformatted UPDATE INFORMATION (such as NtMs, voice radio, verbal communications, etc.) The manual application of hand corrections to nautical charts.
mariner's information	In ECDIS, the information is entered to the SENC, e.g. area of strong currents. Information originated by and added by the mariner;
mariner's navigational objects	In ECDIS features other than chart objects, such as the ownship symbol and velocity vector, planned route, bearing line, etc.
Marine Information Object (MIO)	In ECDIS an OBJECT which has one or more ATTRIBUTES, the value or values of which vary with time.
matrix	In ECDIS an array of regularly spaced locations.
meta object	In ECDIS a FEATURE OBJECT containing information about other OBJECTS.
navigational information	In ECDIS the information contained in MARINER's NAVIGATIONAL OBJECTS
navigational purpose	In ECDIS, the specific purpose for which an ENC has been compiled. There are six such purposes; berthing, harbour, approach, coastal, general, and overview
navigational symbol	See MARINERS' NAVIGATIONAL OBJECTS

	plic Dictionary ECDIS Glossary (5-52 Appendix 1)
node	In ECDIS a zero-dimensional SPATIAL OBJECT, located by a
	pair of coordinates. A node is either ISOLATED or
	CONNECTED.
non-chart symbol	See MARINERS NAVIGATIONAL OBJECTS.
non-HO information	In ECDIS, the information contained in the SENC provided by
	non-HO sources (MARINER'S INFORMATION or other
	sources outside HOs.
north-up display	In ECDIS information shown on the display (radar or ECDIS)
	with the north direction upward. The north-up display
	corresponds with the usual ORIENTATION of the nautical
	chart.
object	In ECDIS an identifiable set of information. An object may
	have ATTRIBUTES and may be related to other objects. See
	also SPATIAL OBJECT and FEATURE OBJECT
Object Catalogue	In ECDIS a feature schema which provides a description of real
	world entities. It contains a list of FEATURE OBJECT classes
	(each relating to a real world entity), ATTRIBUTES and
	allowable ATTRIBUTE VALUES
object class	In ECDIS a generic description of OBJECTS which have the
	same characteristics.
object description	In ECDIS the definition of which OBJECT CLASS a specific
	OBJECT belongs to.
official HO data	See HO information
official updates	In ECDIS, updates provided in digital format by the ISSUING
	AUTHORITY of the ENC being corrected, for integration with
	the ENC DATA in the SENC.
	Updates provided by the ISSUING AUTHORITY for
	application to a chart.
on-demand information	In ECDIS, the SENC information which is not part of the
	standard display. See also ALL OTHER INFORMATION.
orientation	In ECDIS, the mode in which information on the ECDIS is
	being presented. Typical modes include: north-up - as shown
	on a nautical CHART, north is at the top of the display; Ship's
	head-up - based on the actual HEADING of the ship, (e.g.
	Ship's gyrocompass); course-up display - based on the
	COURSE or ROUTE being taken
Other chart information	See DISPLAY CATEGORY
other navigational	In ECDIS, NAVIGATIONAL INFORMATION not contained
information	in the SENC, that may be displayed by an ECDIS, such as radar
	information.

IHO Hydrographic Dictionary ECDIS Glossary (S-32 Appendix 1)			
overscale	In ECDIS, to display the chart information at a DISPLAY SCALE larger than the COMPILATION SCALE. Overscaling may arise from a deliberate overscaling by the mariner, or from automatic overscaling by ECDIS in compiling a DISPLAY when the data included is of various NAVIGATIONAL PURPOSES.		
overscale area	In, ECDIS, when the data displayed is from data of two different NAVIGATIONAL PURPOSES the chart display will, where drawn at the larger SCALE, include an overscale area of data from the smaller scale CELL in order to complete the DISPLAY. This area should be identified by the "overscale pattern" of the PRESENTATION LIBRARY.		
own ship's safety contour	In ECDIS the contour related to the own ship selected by the mariner from the contours provided for in the SENC, to be used by ECDIS to distinguish on the DISPLAY between the safe and the unsafe water, and for generating anti-grounding ALARMS		
own ship's symbol	In ECDIS (and ARPA) a non-chart symbol used to show the ship's position on the CHART or ARPA display.		
own ship	In ECDIS a term identifying the vessel upon which an ECDIS is operating.		
Performance Standards for ECDIS	Minimum performance requirements for ECDIS, adopted by IMO as Assembly resolution and published as an Annex to IMO resolution MSC.232(82)		
planar graph	In ECDIS a 2-dimensional data structure in which the geometry is described in terms of NODES and EDGES which are TOPOLOGICALLY linked. A special case of a CHAIN- NODE data structure in which edges must not cross. CONNECTED NODES are formed at all points where edges meet.		
presentation	In ECDIS the cartographic design including drawing, use of symbols, use of colours, use of conventional practices, etc.		
Presentation Library	In ECDIS a set of mostly digital specifications, composed of SYMBOL libraries, colour schemes, LOOK-UP TABLES and rules, linking every OBJECT CLASS and ATTRIBUTE of the SENC to the appropriate presentation of the ECDIS DISPLAY.		
raster	In ECDIS a regular array with information pertaining to each element (PIXEL) or group of elements. See also RASTER DATA PRESENTATION		
record	In ECDIS, a TRANSFER STANDARD construct which is comprised of one or more tagged FIELDS and identified by a KEY.		
relationship	In ECDIS a logical link between two elements from the DATA MODEL which may be spatial (e.g. TOPOLOGICAL relationship) and/or non-spatial. In general a relationship is implemented in the data structure as a POINTER.		

relative motion display	In ECDIS, a DISPLAY in which OWN SHIP remains stationary, while all other charted information and targets move relative to own ship's position. See also TRUE MOTION DISPLAY.
resolution	The capability of depicting detail, represented by the smallest distance apart at which two objects can be seen to be separate. The separation is called the RESOLVING POWER. In ECDIS, it is dependent on PIXEL size.
route	In ECDIS, a sequence of WAYPOINTS and LEGS.
route monitoring	In ECDIS, the operational navigational function in which the chart information is displayed, under control of the positioning sensor input, according to the vessel's present position (either in TRUE MOTION or RELATIVE MOTION DISPLAY mode.)
route planning	In ECDIS the pre-determination of COURSE, speed, WAYPOINTS and radius in relation to the waters to be navigated, and in relation to other relevant information and conditions.
safety contour	See OWN SHIP's SAFETY CONTOUR
safety depth	In ECDIS the depth defined by the mariner, e.g. the ship's draft plus under keel clearance, to be used by the ECDIS to emphasize soundings on the DISPLAY equal to or less than this value.
scale bar	A graduated line on a MAP, PLAN, PHOTOGRAPH, or MOSAIC, by means of which actual ground distances may be determined. Also called GRAPHIC SCALE or LINEAR SCALE. In ECDIS, a vertical bar scale of 1 nautical mile divided into 1/10 ^{ths} , intended to convey an immediate sense of distance.
semi-automatic updating	In ECDIS, the application of CORRECTIONS to ENC DATA in the SENC updating in a fully integrated state, by hard media or telecommunications transfer in a manner which requires human intervention at the ECDIS interface.
SENC	See SYSTEMS ELECTRONIC NAVIGATIONAL CHART
simplified symbols	In ECDIS SYMBOLS designed specifically for fast draw and to give the maximum clarity under all conditions of viewing the CRT. They are less complex than the equivalent paper CHART SYMBOLS.
sounding datum	See DATUM: SOUNDING
spaghetti data	In ECDIS a DATA STRUCTURE in which all lines and points are unrelated to each other (i.e. no topological RELATIONSHIPS exist in the data structure)
spatial object	In ECDIS an OBJECT which contains locational information about real world ENTITIES.

IHO Hydrographic Dictionary ECDIS Glossary (S-32 Appendix 1)

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IHO Hydrogra	phic Dictionary ECDIS Glossary (S-32 Appendix 1)
spatial record	In ECDIS the implemented term used in the IHO transfer standard data structure for a spatial object (i.e. a SPATIAL OBJECT as defined in the data model is encoded as a spatial record in the data structure). There are three types of spatial records: VECTOR, RASTER and MATRIX.
standard display	See DISPLAY CATEGORY
supplementary information	In ECDIS non-chart hydrographic office information, such as SAILING DIRECTIONS, TIDE TABLES, LIGHT LISTS.
System Electronic Navigational Chart (SENC)	In ECDIS a data base resulting from the transformation of the ENC by ECDIS for appropriate use, updates to the ENC by appropriate means and other data added by the mariner. It is this data base that is actually accessed by ECDIS for the display generation and other navigational functions, and is equivalent to an up-to-date paper CHART. The SENC may also contain information from other sources.
target data	In ECDIS, the data on which an UPDATE operation is performed by the APPLIER.
textual HO information	In ECDIS information presently contained in separate publications (e.g. SAILING DIRECTIONS) which may be incorporated in the ENC, and also textual information contained in explanatory attributes of specific objects.
time varying object	In ECDIS an OBJECT which has one or more ATTRIBUTES, the value or values of which vary with time.
topology	In ECDIS and digital data, the set of properties of geometric forms (such as connectivity, neighbourhood) which is defined with the DATA MODEL remaining invariant when subject to a continuous transformation.
true-motion display	In ECDIS, a DISPLAY in which OWN SHIP and each target moves with its own true motion, while the position of all charted information remains fixed. See also RELATIVE MOTION DISPLAY.
underscale	In ECDIS the condition where data displayed are not the largest scale NAVIGATIONAL PURPOSE data available for that area.
update	See UPDATE INFORMATION. (Verb) applying the UPDATE MECHANISM. See also OFFICIAL UPDATES.
update information	In ECDIS, the data which are needed to update the TARGET DATA automatically. Update information comprises one or more UPDATE RECORDS.
update mechanism	In ECDIS, the defined sequence of update operations necessary to update the TARGET DATA by applying the UPDATE INFORMATION to the content of the TARGET DATA so that no operator interaction is involved.

update record	In ECDIS a generic term for FEATURE or SPATIAL RECORDS containing update instructions.
warning	In ECDIS an ALARM or INDICATION.
water stabilization	In ECDIS the reference system relative to the water based on course- and speed-through-water sensors.
waypoint	In ECDIS in conjunction with ROUTE PLANNING, a geographical location (e.g. latitude and longitude) indicating a significant event on a vessel's planned route (e.g. course alteration point, calling in point, etc.).
Worldwide Electronic Navigational Chart Data Base (WEND)	In ECDIS a common, worldwide network of ENC datasets, based on IHO standards, designed specifically to meet the needs of international maritime traffic using ECDIS which conform to the IMO PERFORMANCE STANDARDS.
zoom	In ECDIS a method of enlarging (zoom in) or reducing (zoom out) graphics displayed on a SCREEN.

IHO Hydrographic Dictionary ECDIS Glossary (S-32 Appendix 1)

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<u>Terms from the S-52 Appendix 3 (Glossary of ECDIS related terms) not transferred to the</u> <u>S-32 Appendix 1 (ECDIS Glossary) and under further consideration by the CHD for possible</u> <u>incorporation into S-32</u>

aid to navigation	Visual, acoustical, or radio device designed to assist in
	determining a safe course or a vessels' position, or to warn of
	dangers and/or obstructions. Aids to navigation usually include
	BUOYS BEACONS FOG SIGNALS LIGHTS RADIO
	BEACONS LEADING MARKS radio position fixing
	systems GPS which are chart-related and are essential to safe
	NAVICATION
Automotic Identification	An outomotic communication and identification system
Automatic Identification	An automatic communication and identification system
System (AIS)	intended to improve the safety of navigation by assisting the
	efficient operation of vessel traffic services, (VIS), ship
	reporting, and ship-to-ship and ship-to-shore operations.
Automatic Radar Plotting	A system wherein radar targets are automatically acquired and
Aid (ARPA)	tracked and collision situations computer assessed and
	warnings given.
chart: nautical	A special-purpose map or a specially compiled database from
	which a map is derived, that is issued officially by or on the
	authority of a Government, authorized Hydrographic Office or
	other relevant government institution and is designed to meet
	the requirements of marine navigation. (From SOLAS Chapter
	V)
C.I.E. colour system	Colour specification system established by the Commission
	Internationale de l'Eclairage which permits a replicable
	description of any colour on any equipment. in contrast with
	other colour schemes which are apparatus specific. Colour is
	usually expressed in terms of the x and x chromaticity
	appreciate the solution of the stand of the
	third dimension V representing the luminance (nerroived as
	third dimension 1 representing the funnitance (perceived as hrightness) of the light in condule nor square mater (ad/m^2)
	CLE salars acadinates can be transformed into DCD.
	C.I.E. colour coordinates can be transformed into KGB
	coordinates of a calibrated CR1.
coastal warning	a NAVIGATIONAL WARNING promulgated by a national
	co-ordinator covering a coastal region or portion thereof.
compilation	In CARTOGRAPHY, the selection, assembly, and graphic
	presentation of all relevant information required for the
	preparation of a MAP or CHART, or a NEW EDITION
	thereof. Such information may derived from other
	MAPS/CHARTS, AERIAL PHOTOGRAPHS, SURVEYS,
	new DATA, and other sources. In PHOTOGRAMMETRY, the
	production of a MAP (or portion of a MAP) from AERIAL
	PHOTOGRAPHS and geodetic control data, by means of
	photogrammetric instruments. Sometimes called stereo
	compilation.
differential system	See DIFFERENTIAL MODE

electronic chart	A very broad term to describe the data, the software, and the electronic system, capable of displaying <i>chart information</i> . An electronic chart may or may not be equivalent to the paper chart required by <i>SOLAS</i> .
Global Navigation Satellite System (GNSS)	A world-wide position, time and velocity radiodetermination system comprising space, ground and user segments of which GPS and GLONASS are components.
Global Navigation Satellite System (GLONASS)	A space-based, radio-positioning, navigation and time-transfer system operated by the Government of the Russian Federation. GLONASS to which differential corrections have been applied is known as Differential GLONASS (DGLONASS).
Global Positioning System (GPS)	A satellite-based navigation system designed to provide highly accurate positions and velocity information in three dimensions and precise time and time interval on a global basis continuously. GPS is operated by the United States Government. GPS to which differential corrections have been applied is known as DIFFERENTIAL GPS (DGPS).
heading	The direction in which a vessel or craft is pointed, expressed as an angular distance from NORTH clockwise through 360 DEGREES.
IHO INT 1	Specification of symbols, abbreviations and terms to be used in the International Chart Series of IHO.
INT1	See IHO INT 1
International	A non-governmental organization comprising all national
Electrotechnical	electrotechnical committees (IEC National Committees). The
Commission (IEC)	object of the IEC is to promote standardization and
	international cooperation on all questions concerning
International Maritima	A specialized agency of the UNITED NATIONS responsible
Organization (IMO)	for measures to improve the safety of international shipping and
Organization (INIO)	to prevent marine pollution from ships (formerly called IMCO)
local datum	Any geodetic reference DATUM defined for national or local purposes.
Navarea	The short title for a geographical sea area in the WORLD- WIDE NAVIGATIONAL WARNING SERVICE established for the purpose of coordinating the transmission radio NAVIGATIONAL WARNINGS
Navarea warning	A NAVIGATIONAL WARNING issued by the NAVAREA coordinator for its assigned area
navigational aid	See AID TO NAVIGATION.
navigational chart	See CHART
Raster Nautical Chart (RNC)	A facsimile of a paper chart originated by, or distributed on the authority of, a government-authorized hydrographic office. It is either a single chart or a collection of charts.

Regional ENC Coordinating Centre (RENC)	An organizational entity where IHO Member States have established cooperation amongst each other to guarantee a world-wide consistent level of high quality data, and for bringing about coordinated services with official ENCs and updates to them.
Safety Of Life At Sea (SOLAS)	International Convention for the Safety of Life at Sea developed by IMO. The contracting governments undertake to promulgate all laws, decrees, orders and regulations and to take all other steps which may be necessary to give the present Convention full and complete effect, so as to ensure that, from the point of view of safety of life, a ship is fit for the service for which it is intended.
track keeping	Sailing a ship in accordance with a pre-determined route, and in relation to the waters.
true distance	The distance on the earth's surface, based on ellipsoid calculations.
voyage data recorder	A system that may be in the form of several separated but interconnected units, intended to maintain, in a secure and retrievable form, information concerning the position, movement, physical status, command and control of a vessel over a period leading up to, and following an incident. Sometimes referred to as Black Box.
window	See also DISPLAY