After a call for action during a IHMA congress in 2006 by the shipping industry, the IHMA and the UKHO have been working hard to come up with a structure for port information.

IHMA and UKHO PORT INFORMATION PROJECT:

FUNCTIONAL DEFINITIONS FOR NAUTICAL PORT INFORMATION

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Version 5.2	August 2017	Further review by shipping companies and stakeholders.
Version 5.3	January 2018	Further review by stakeholders. Addition of source listing
Version 5.4	December 2018	After Industry Input Workshop 29/11/18

INTRODUCTION

Background

Since 2006, after a call for action by the shipping industry during a congress in Malta, the IHMA (International Harbour Masters Association) and UKHO (United Kingdom Hydrographic Office) have been working hard to come up with a defined structure and authoritative definitions for port information which can be distributed to both ports and vessels for the purpose of improving communications and port efficiency.

An initial project, AVANTI (Access to Validated, Nautical Information) and later PRONTO (Port Rendezvous Of Nautical and Terminal Operations), examined the needs of all stakeholders involved in vessel operations in ports and a website, designed to address those needs was produced. As an offshoot of that initial project the importance of consistent standards and definitions emerged which is the objective of this publication.

A high priority is placed on the ability for vessels and the various port agencies to communicate using clear and authoritative definitions for the various terms used daily in port operations. The definitions contained here are sourced from existing standards within the shipping industry. Only when no applicable definition could be found a new one was introduced and published via the glossary of the UKHO's Mariners Handbook (NP100), the publication available most frequently on the bridge of all SOLAS (UN Safety Of Life At Sea convention) vessels and in most offices of harbour masters globally.

Together with leading shipping lines, ports and hydrographic offices the following needs have been identified:

- The need for global, cross industry functional definitions. Many resources have been spent looking for existing definitions within the shipping industry and beyond (e.g. World Meteorological Office, International Standardisation Organisation))
- The need for global data definitions and formats to share data
- The need for an application that allows ports to manage their data using their local language and their own information database, but which also allows them to share data
- The need to address SOLAS compliance, Charter Party clauses, the business process of shipping, and the legal exposure of the port itself

The project was initiated by the following bodies:

- International Harbour Masters Association, European Harbour Master Committee
- United Kingdom Hydrographic Office
- Lloyds Marine Intelligence Unit
- The taskforce Port Call Optimization (Shell, Maersk Line, MSC, CMA-CGM, Port of Gothenburg, Port of Singapore, Port of Houston, Port of Algeciras, Port of Busan, Port of Rotterdam)

The following standards bodies have been consulted to arrive at the definitions contained within this document.

 International Harbour Master Association, International Association of Marine Aids to Navigation and Lighthouse Authorities, United Kingdom Hydrographic Office, International Hydrographic Organisation, BIMCO, Oil Companies International Marine Forum, GS1, International Standardisation Organisation

The project is supported by:

• United Kingdom Protection and Indemnity Club (UK P&I)

How this guide is organised:

SECTIONS – this guide groups its definitions according to a vessel's passage through a port. As the vessel moves within a port it passes through a number of discrete, mutually exclusive "sections" of the port, which are well defined areas of the port's jurisdiction within which particular restrictions or rules may apply

The content of this guide reflects this journey by splitting the definitions into the following parts:

- 1. Definition of terms used during a vessel's port call.
 - a. Section Type information dealing with the characterisation of individual port sections and terms defining them.
 - b. Vessel information information regarding the actual vessel and its dimensions.
 - c. Definitions relating to depth information
 - d. Definitions relating to restrictions enforced within the port either from external conditions within the port or specific to vessel dimensions or manoeuvres
 - e. Provision of VTS (Vessel Traffic Services)
- 2. General Information about the port. This part defines minimum general information which should be available about each port.
- 3. Event information. This part defines terms and formats used for recording information within the port relevant to an individual vessel's port call.

Each entry in this guide is formatted as per the example below:

Summer Dead Weight Tonnage	The weight, of cargo, stores, fuel, passengers and crew
	carried by a vessel when loaded to her maximum summer
	load line. Units: Tonnes (1000kg) or Tons (2240lb)

The term being defined is to the left of the page with the definition on the right. If units or format are required, then they are clearly indicated in the definition text.

Location Identifiers:

It is important that unique identifiers for real-world features are available and the project has engaged with the GS1 standardisation group (<u>http://www.gs1.org/gln</u>) to promote the use of Global Location Numbers (GLN) for the identification of features defined within this publication. The aim is that as ports define their facilities within the parameters of the standards defined within this publication they will use GLN numbers to assign a unique identifier to each location which will remain in place at all times.

INDIVIDUAL PORT SECTIONS

This part of the guide contains definitions which relate to particular "sections" of a port in terms of the vessel's passage through them. The definitions cover routeing and traffic measures in port approaches as well as natural and man-made features relevant to safe navigation. Each term defined here will be linked to a single "section" within the port's jurisdiction.

Port	Any port, terminal, offshore terminal, ship and repair yard or
	roadstead which is normally used for the loading, unloading,
	repair and anchoring of ships, or any other place at which a
	ship can call. The word also embraces, geographically, the city
	or borough which serves shipping interests.
Roads	An open anchorage which may, or may not, be protected by
	shoals or reefs affording less protection than a harbour.
	Sometimes found outside harbours
Deep Water Route	A route in a designated area, within defined limits, which has
	been accurately surveyed for clearance of sea bottom and
	submerged obstacles to a minimum indicated depth of water
Traffic Separation Scheme	A scheme which aims to reduce the risk of collision in
	congested and/or converging areas by separating traffic
	moving in opposite, or nearly opposite, directions
Anchorage	An area in which vessels anchor or may anchor
Anchor berth	A designated area of water where a single vessel may anchor
Precautionary area	A routeing measure comprising an area within defined limits
	where ships must navigate with particular caution and within
	which the direction of traffic flow may be recommended
Pilot Boarding Place	At sea, the meeting place to which the pilot comes out
Pilot Station	Ashore, a lookout station keeping visual watch, or an office or
	headquarters of pilots; the place where the services of a pilot
	may be obtained
Fairway	Sometimes called Ship Channel. The main navigable channel
	in the approaches to, or within, a river or harbour
Basin	A sheltered body of water available for port operations
	connecting either with the sea, with an outer port or with
	another basin
Turning basin	An area of water or enlargement of a channel in a port, where
	vessels are enabled to turn, and which is kept clear of
	obstructions such as buoys for that purpose
Berth	A named or numbered place where a vessel can moor or
	anchor (e.g. a wharf, quay, jetty, mooring buoy, or berthing
	dolphins)

Berthing Position	The actual position where a vessel is moored or anchored.
	E.g. at a wharf of quay, the bollard number at fore and aft of
	the vessel, at a jetty, the manifold position
Berth status	The status of an individual berth, e.g. operational, under
	construction
Bridge	A structure erected over a depression or an obstacle such as a
	body of water, railroad, etc. to provide a roadway for
	vehicles, pedestrians or to carry utility service(s)
Lock	An enclosure at the entrance to a tidal basin, or canal, with
	caissons or gates at each end by means of which ships are
	passed from one water level to another without materially
	altering the higher level
Barrier	An obstruction, usually artificial, in a river
Sea Buoy	The outermost buoy marking the entrance to a channel or
-	harbour.

VESSEL INFORMATION

This set of definitions cover elements of the vessel itself, its dimensions and other statistics.

IMO number	A number assigned to sea-going merchant vessels under the
	International Convention for the Safety of Life at Sea
	(SOLAS). These are assigned by IHS Fairplay to individual
	vessels. Format: The characters "IMO" followed by a unique
	seven-digit number, e.g. "IMO 9227338"
Vessel Type	The purpose of the vessel. A comprehensive list of unique
	vessel types taken from the IHS Fairplay's comprehensive
	"statcode" system is reproduced in Appendix B
Length Overall (LOA)	The maximum length of a vessel's hull measured parallel to
	the waterline. Units: decimal metres
Parallel Mid- Body (PMB)	The measurement (length) at the water line of the flat side
	of the vessel. Units: decimal metres
Estimated Minimum Parallel Mid-	The estimated minimum PMB of the vessel during time
Body Alongside	alongside, including both arriving and departing the berth
	and while alongside the berth. Units: decimal metres
Beam	The beam of a ship is its width at the widest point as
	measured at the ship's nominal waterline. Units: decimal
	metres
Draught	The vertical distance from the bottom of the keel to the
	waterline (sometimes measured against a defined water
	density measured in kg/m ³). Units: decimal metres
Air Draught	The distance from the waterline to the highest point on a
	vessel. Units: decimal metres
Displacement tonnage	The weight of water displaced by a vessel and is equal to her
	weight and all that is in her. Units: Tonnes (1000kg) or Tons
	(2240lb)
Arrival Displacement	The displacement of the vessel on arrival at the berth
Maximum Displacement Alongside	The maximum displacement of the vessel while alongside
	the berth
(Summer) Deadweight Tonnage	The difference in tonnes between the displacement of a
(DWT)	ship in water of a specific gravity of 1.025 (corresponding to
	average density of sea water) at the draught corresponding
	to the assigned summer freeboard and the light
	displacement (lightweight) of the ship. This can also be
	defined as the weight, of cargo, stores, fuel, passengers and
	crew carried by a vessel when loaded to her maximum
	summer load line. Units: Tonnes (1000kg) or Tons (2240lb)
Gross toppage (GT)	Measured according to the law of the national authority
Gross tonnage (GT)	with which a vessel is registered. This measurement is,

STANDARDS FOR NAUTICAL PORT INFORMATION

	broadly, the capacity in cubic feet of the spaces within the
	hull and of the enclosed spaces above the deck available for
	cargo, stores, passengers and crew, with certain exceptions,
	divided by 100. Units: Dimensionless
Net tonnage (NT)	Derived from gross tonnage by deducting spaces of the
	accommodation of crew, navigation, machinery and fuel.
	Unit: Dimensionless
Vessel Direction	The general direction of the vessel for which information
	applies. Text: one of: Inbound, Outbound, Alongside,
	Shifting, Upriver, Downriver
Inbound	Ship's physical movement from approach to (anchor) berth
Outbound	Ship's physical movement from (anchor) berth to its next
	destination
Shifting	Ship's physical movement from (anchor) berth to (anchor)
	berth
Alongside	Time from First Line Secured till Last Line Released
Upriver or Upstream	Toward the source of a stream or river.
Downriver	Toward the mouth of a stream or river
(Vessel) Transit	Passing through a port without calling at a berth
Turning	Swinging the ship over port or starboard bow

DEPTH INFORMATION

This part of the guide defines terms relevant to the measurement of depth within individual port sections.

Sounding Datum / Chart Datum	The vertical datum to which soundings, maintained depths
	and drying heights on a chart are referred. It is usually taken
	to correspond to a low water stage of the tide Units: Named
	datum
Maintained Depth	The depth at which a channel is kept by human influence,
	usually by dredging. Units: decimal metres with reference to
	a specific Sounding Datum
Sounding	Measured or charted depth of water or the measurement of
	such a depth. Units: decimal metres with reference to a
	specific Sounding Datum
Sounding Minimum	The minimum (shoalest) value of a depth range. Units:
0	decimal metres with reference to a specific Sounding Datum
Sounding Maximum	The maximum (deepest) value of a depth range. Units:
0	decimal metres with reference to a specific Sounding Datum
Height of tide	Units: The vertical distance between the chart datum to the
0	level of the water at a particular time. Units: decimal
	metres with reference to a specific Sounding Datum
Tidal Prediction	A prediction of the vertical change in water level and/or the
	horizontal flow of tidal streams at a particular time in a
	specific location. Normally a prediction of astronomical tidal
	effects only. Units: decimal metres with reference to a
	specific Sounding Datum
Astronomical Tide	A change in water level caused by the attraction of the sun,
	moon and planets
Environmental Tide	A change in water level caused by local meteorological
	conditions
Residual Tide	A correction to astronomical tide to account for local
	weather condition and river flow
High Water / High Tide	The highest level reached at a place by the water surface in
0 0 0 0	one oscillation. Units: decimal metres with reference to a
	specific Sounding Datum
Low Water / Low Tide	The lowest level reached at a place by the water surface in
	one oscillation. Units: decimal metres with reference to a
	specific Sounding Datum
Water Density	Density is equivalent to specific gravity and represents the
	ratio, at atmospheric pressure, of the weight of a given
	volume of sea water to that of an equal volume of distilled
	water at 4 degrees Celsius. Units: kg/m ³
	- ·

Minimum Water density	The minimum water density value within a particular area.
	Units: kg/m ³
Nature of Bottom	The feature of the bottom including the material of which it
	is composed and its physical characteristics. Formatted
	according to International Chart 1, BA Chart 5011 e.g.
	Sand, Mud, Clay, Silt, Stones, Gravel, Pebbles, Cobbles, Rock,
	Boulder, Coral
Dredged area	An area of the bottom of a body of water which has been
	deepened by dredging
Dredging regime	The strategy adopted in a dredged area to ensure that the
	actual depth within the area is never less than a specific
	depth
Overdredge	An additional depth margin provided by a dredging
	operation to ensure that the depth at a specific location is
	never less than the pre-determined maintained depth over
	the interval between programmed dredging operations
	Units: decimal metres

RESTRICTIONS

A restriction is a rule imposed by an authority on vessel operations due to some external factor. A restriction is normally applicable within a particular area, usually a named section of the port.

Restrictions are generally applied to vessels defined by their specific type, size, direction of travel and other factors.

Restrictions are broadly divided into those specific to a vessel's dimensions, related to conditions within the port (or port section) or those specific to a vessel's planned manoeuvring or berthing operations.

Under Keel Clearance (UKC)	The distance between the lowest point of the ship's hull, normally some point on the keel, and the sea bottom. Units: A defined value in decimal metres or a percentage of draught and/or beam
UKC policy	A restriction imposed by an authority on a vessel to ensure
	the depth below the keel meets an acceptable (usually
	minimum) single or range of values. Units: A defined value
	in decimal metres or percentage of draught and/or beam
Dynamic UKC	The change in draught of a vessel due to vessel motion and
	manoeuvring in the water. Determined using real time
	measurement of tides and waves together with modelled
	vessel motions (pitch, roll, yaw, heave, sway). Also includes
	squat. Units: A defined value in decimal metres or a
	percentage of draught and/or beam
Allowance	A component of a vessel's overall UKC value due to a
	specific named factor
Under Keel Allowance	The estimated minimum UKC in a given area. Units: Units: A
	defined value in decimal metres or percentage of draught
	and/or beam
Motions Allowance	A component of UKC allowance to account for the combined
	effect of vessel motion on the draught of the vessel. Units: A
	defined value in decimal metres or percentage of draught
	and/or beam
Fresh Water Allowance	The change in draught of a vessel due to the difference
	between salt and fresh water
Maximum draught without over the	Maximum draught without utilizing tidal operations. Units:
tide operations	decimal metres to a defined water density measured in
	kg/m ³
Maximum draught with over the tide	Maximum draught utilising tidal changes to discharge or

RESTRICTIONS - Restrictions specific to vessel dimensions.

operations	load cargo before a low tide level is reached, thus
	maintaining the vessel "always afloat". Units: decimal
	metres, to a defined water density measured in kg/m ³
Maximum length	Maximum permitted length overall (LOA). Units: decimal
	metres
Minimum Parallel Mid-Body	The minimum PMB requirement for the berth during time
Alongside	alongside, including both arriving and departing the berth.
	Units: decimal metres
Maximum beam	Maximum permitted beam. Units: decimal metres
Maximum air draught	Maximum permitted air draught. Units: decimal metres
Maximum tonnage	Maximum tonnage, specified with reference to a particular
	tonnage type. Units: Tonnes (1000kg) or Tons (2240lb)
Safe Overhead Clearance	The height above a given vertical datum at which the
	highest points of a ship can pass under an overhead power
	cable without risk of electrical discharge from the cable to
	the ship or without making contact with a bridge. Units:
	decimal metres.
Maximum Arrival Displacement	The maximum displacement of the vessel on arrival at the
	berth. Units: Tonnes (1000kg) or Tons (2240lb)
Maximum Displacement Alongside	The maximum displacement of the vessel whilst alongside
	the berth. Units: Tonnes (1000kg) or Tons (2240lb)

Vertical tide restriction	Restriction due to the height of tide. Referred to tidal
	information at location. Tidal Window can be in hours before
	or after High (or Low) water of reference station. Decimal
	hours are used for description of tidal window. Decimal
	metres are used for description of tidal height
Horizontal tide restriction	Restriction due to the tidal stream at any point. Referred to
	tidal information at location. Tidal Window can be in hours
	before or after High (or Low) water of reference station.
	Decimal knots are used for description of tidal stream rate
	and degrees for tidal stream direction if specified
Wind restriction	Restriction due to the strength of wind at any point. Referred
	to wind information at location. Wind speed: metres per
	second; wind direction: clockwise from quadrant to quadrant,
	2 points accuracy. (e.g. NNE to ENE)
Visibility restriction	Restriction due to the visibility. Referred to visibility
	information at location. Units: metres
Ice restriction	Period of the year in which the port may be affected by ice
	and restrictions may be put in place. Format: Start and End
	date of restriction
Sea State restriction, i.e. swell.	A restriction imposed because of exceptional sea state
	conditions. Units: decimal metres (swell), significant
	wave/swell height (metres) or significant wave/swell period
	(seconds)
Extra measures	Any extra measures necessary for the safe handling of the
	vessel under the conditions specified in other restrictions

RESTRICTIONS - Restrictions related to external conditions.

RESTRICTIONS - Related to vessel manoeuvring and berthing.

The following section defines categories of restrictions which are related to an individual vessel's manoeuvring or berthing operations.

Speed restriction	Restriction due to vessel speed. Knots (Nautical miles per
	hour) specified as over ground or through the water
Passing restriction	Local rules in addition to collision regulations which place
	restriction on how and where vessels may pass each other
Mandatory tug use	Tug(s) which a vessel must use within a port region under all
	conditions
Berthing information	Information on berthing from a port authority intended for
	safe mooring of a vessel
Extra measures	Any extra measures necessary for the safe handling of the
	vessel under the conditions specified in other restrictions

VESSEL TRAFFIC SERVICE INFORMATION

A VTS (Vessel Traffic Services) is a service implemented by a Competent Authority, designed to improve the safety and efficiency of vessel traffic and to protect the environment.

The definitions within this part of the guide are normally applied per port section. Unless otherwise stated all definitions are specified as free text.

VTS Area	The delineated, formally declared service area of the VTS. A
	VTS area may be subdivided into sub-areas or sectors. A VTS
	Area may be divided into a number of sectors to ensure that
	the loading is within the capability of each VTS Operator to
	manage. This will depend on factors such as traffic density,
	traffic patterns, type(s) of service and surveillance
	requirements
Vessel Traffic Service	A service implemented by a Competent Authority, designed
	to improve the safety and efficiency of vessel traffic and to
	protect the environment. The service should have the
	capability to interact with the traffic and to respond to traffic
	situations developing in the VTS area
Competent Authority	The authority made responsible, in whole or in part, by a
	Government for safety, including environmental safety, and
	efficiency of vessel traffic and the protection of the
	environment
VTS Authority	The authority with responsibility for the management,
	operation and co-ordination of the VTS, interaction with
	participating vessels, and the safe and effective provision of
	the service
VTS Operator	An appropriately qualified person performing one or more
	tasks contributing to the services of the VTS.

GENERAL PORT INFORMATION

This part of the guide defines the requirements for information regarding the entire port / port authority. The information specified by these definitions covers all sections of the port. Where information should be in a particular format the content is described with the definition. It is required for all ports to define the information within this section.

General information	General, introductory information about the port. This should be confined to information not contained in any other
	definitions
Developments	Details of any active development affecting traffic in the port.
	Long term development plans should not be covered here but
	reference can be made to a section on the port website
Port Location	A single position which represents the port as a whole
	(generally a centre of gravity position is chosen to represent
	the port's location)
	Format:
	 Latitude: degrees, decimal minutes WGS 84
	 Longitude: degrees, decimal minutes WGS 84
	Country Code: ISO 3166-1, 2 characters
	 UN Location Code: UN Code for Trade and Transport
	Location Description: free text
Limits description	Description of the area covered by the information specified
ISPS security level	Current security level of the port according to the International
	Ship and Port Facility Security Code :
	http://www.imo.org/blast/mainframe.asp?topic_id=897#levels
	Format:
	 ISPS Security Level: Level 1,2 or 3
	Qualifying Remarks: free text
Load Line Zone	The load line zone in which the port is located, as defined by
	the IMO's International Convention on Load Lines
	Format:
	Free text according to the IMO Loadline convention with
	respect to the seasonal zones: :
	Summer, Winter, Tropical, Winter North Atlantic, Fresh,
	Tropical Fresh
Maximum vessel sizes	Any size constraints on vessels using the port as a whole. It is
	not intended to capture constraints that may exist within an
	individual berth or port section - these should be captured in
	the appropriate section
	Format:
	Maximum length: in decimal metres

	Maximum beam: in decimal metres
	 Maximum air draught: in decimal metres
	 Supplementary information: free text
Time Zone	Time zone in which the port is located
	Format:
	• Standard Time: UTC +/- xx hrs
	 Daylight Saving Time: UTC +/- xx hrs
	 DST Start: date
	• DST End: date
Local holidays	Dates and names of any local or national holidays that may
	affect the working of the port
	Format:
	Name: free text
	Start Date: date
	End Date: date
Working hours	Working days and hours for the Port Authority, i.e. the times
	when they are contactable. It does not define the specific
	working times of various port services or terminals: these
	should be recorded as individual services
	Format:
	Start Day: free text
	End Day: free text
	Week Day Start: free text
	Week Day End: free text
Cargo	Types of cargo handled by the port
	Cargo Type: free text
	• Weight of Goods: weight of goods or number of
	containers per calendar year in tonnes
	 Supplementary Information: free text
Charts	Charts and publications that can be used to navigate the port
	approaches and port basins and waterways
	Format (per chart or publication):
	Chart Number: free text
	Title: free text
	Identifier: free text
	Publisher: free text
Shipping announcements	Local shipping announcements relevant to port users
Legal disclaimer	Any additional legal disclaimers that a port wish to make
-	Hyperlink to the official port website
Legal disclaimer Website	

CONTACT INFORMATION

This section defines the content of contact details.

Contact details will generally be supplied for:

- 1. All people and service providers who are the recipients of reports under the "reports and documentation " section
- 2. The emergency coordination centre
- 3. The service providers referenced under "nautical services" and "vessel services"

General contact information	Introductory text or high level, nonspecific information for
	contacting people in the port. This does not contain specific
	name, address or other contact details for any individual or
	service (These are defined as individual "Point of contact")
Point of contact	Detailed contact information for an official point of contact
	within the port
	Format:
	Individual Name: free text
	Department name: free text
	Role: free text
	Hours of Service: free text
	Contact Instructions: free text
	Voice Number: free text
	Fax Number: free text
	VHF Channel: free text
	E-mail: free text
	Delivery Point: free text
	City: free text
	Administrative Area: free text
	Postal Code: free text
	Country: free text
Inter ship Communication	Specification of a communication channel for vessels in the
	port or a port section
	Format:
	VHF Usage: free text
	VHF Channel: free text
	Remarks: free text

WEATHER AND TIDAL INFORMATION

Weather and tide information for the port

Real time weather and tidal information	Links to any official real-time weather or tidal information provided by the port
	Format: Free text or reference to a port
	website
Local weather and tidal phenomena	Details of any important local weather or
	tidal conditions within the port
	Format:
	Phenomena: free text
	Details: free text
	Location: free text

REPORTS & DOCUMENTATION

Defines the various reports (e.g. notification, declarations, reports) and documentation that a visiting vessel will be expected to send to the port either before arrival, during its stay in port or before and after departure. Port's reports will be in fixed formats and will require completion. Documentation are standardised documents which need to be presented to the port authorities. The exact requirements will vary per port.

Pre arrival Reports	Detailed requirements for each report that needs to be sent
	to the port before arrival
	Format:
	Report Category: free text
	Who: free text
	What: free text
	To: free text
	How: free text
	When: free text
	Remarks: free text
In port Reports	Detailed requirements for each report that needs to be sent
	to the port whilst in port
	Format:
	Report Category: free text
	Who: free text
	What: free text
	To: free text
	How: free text
	When: free text
	Remarks: free text
Pre departure Reports	Detailed requirements for each report that needs to be sent
	to the port prior to departure
	Format:
	Report Category: free text
	Who: free text
	What: free text
	To: free text
	How: free text
	When: free text
	Remarks: free text
Documentation Requirements	Details of any documentation that vessels will be required
•	to provide to authorities in port
	Format:
	Vessel Type: free text

REGULATIONS AND EXEMPTIONS

Details of any relevant local regulations that apply in the port such as bunkering procedures, use of linesmen or Pilot Exemption Certificate (PEC). This does not include national or international regulations which may be documented elsewhere.

Regulation	Details of any local regulations that apply in the port or its surrounding waters
	Free text or reference to a port website
Exemptions	Any exemptions that may apply to classes of vessel or
	suitably qualified people
	Free text or reference to a port website

PORT SAFETY

Identification of equipment, procedures and points of contact that should be used in case of an emergency within the port

Emergency coordination centre	The Emergency Coordination Centre information for the port. Individuals should be entered as a "Point of Contact" and referenced within this information Free text
Emergency response equipment	Types, locations and availability of emergency response equipment Format: • Equipment Type: free text • Equipment Availability: free text
Emergency procedures	Relevant emergency response procedures
	Format:
	Category of Emergency: free text
	Emergency Procedure: free text

SERVICES

This section defines the individual services that are available in the port

NAUTICAL SERVICES	Services related to the safe passage and berthing of the vessel: VTS, Pilotage, Towage/Tugs, Lines
	 Format: Nautical Service Type: free text Service Name: free text Service Location Description: free text Service Area Description: free text Service Hours: free text Working Hours: free text
	Service Details: free text
VESSEL SERVICES	Services related to the vessel and her cargo: Bunkers Lube oil, Potable water, Provisions, Stores, Waste per IMO class, Repairs, lashing, Cargo survey, Draught survey, Vetting Format: • Vessel Service Type: free text • Service Name: free text • Service Location Description: free text • Service Area Description: free text • Service Hours: free text • Service Details: free text • Service Details: free text • Working Hours: free text • Start Day: free text • End Day: free text • Week Day Start: free text • Week Day End: free text

EVENT INFORMATION

The port call of a vessel is defined in terms of a sequence of mutually exclusive "events". Each event is a snapshot in time, i.e. it has a beginning and an end time and takes place in a particular location. The definition of individual events are also defined in this section and are in line with International Maritime Organization Facilitation (FAL) logbook and manoeuvring book entries.

ARRIVAL AND DEPARTURE TIMES

This section contains definitions for the specification of planned and actual arrival and departure events within a location. All events are specific to a particular time window and place. Locations (Places) are defined either as named port sections or local conspicuous locations

All times are formatted according to ISO 8601 and have the form: **YYYY-MM-DDTHH:MM:SSZ.** Here "Z" represents the "zero" time zone (UTC+0) and T represents "Time".

The Date/Time when a vessel estimates it will arrive at a specified location, as per port section standards
The Date/Time when a vessel is requested to arrive at a specified location, as per port section standards
The Date/Time when a vessel plans to arrive at a specified location, as per port section standards
The Date/Time when a vessel arrives at a specified location, as per port section standards
The Date/Time when a vessel estimates it will depart from a specified location, as per port section standards
The Date/Time when a vessel is requested to depart from a specified location, as per port section standards
The Date/Time when a vessel plans to depart from a specified location, as per port section standards
The Date/Time when a vessel departs from a specified location, as per port section standards

Some arrival / departure times are defined:

- Arrival time Berth: First Line secured
- Departure time Berth: Last Line released

NAUTICAL, CARGO AND VESSEL SERVICE TIMES

This sections defines the terms used to capture the date/time of events related to servicing of a vessel during its port call. Services may vary widely and range from pilot service, tug service, mooring service, cargo service, cargo survey, or bunkers, provisions etc.. All entries are formatted as ISO8601 Date/Time stamps.

ETS - Service – Estimated Time of Start – Service	Date/Time when a service provider estimates a specified service will start
RTS – Service – Requested Time of Start - Service	Date/Time when a service provider is requested to start a specified service
PTS – Service – Planned Time of Start – Service	The Date/Time when a service provider plans to start a specified service
ATS - Service – Actual Time of Start - Service	Actual Date/Time when a service provider starts a specified service
ETC - Service – Estimated Time of Completion - Service	Date/Time when a service provider estimates a specified service will be completed
RTC – Service – Requested Time of Completion - Service	Date/Time when a service provider is requested to complete a specified service
PTS – Service – Planned Time of Completion – Service	The Date/Time when a service provider plans to complete a specified service
ATC – Service – Actual Time of Completion - Service	Actual Date/Time when a service provider completes a specified service

Some service times are defined:

- Start Pilot service: Pilot On Board pilot safely embarked the vessel to be piloted
- Completion Pilot service: Pilot Disembarked pilot physically disembarked the vessel that has been piloted
- Start Tug service: Tug(s) Stand By & Ready to Assist Tug(s) are available to assist the vessel
- Completion Tug service: Tugs Dismissed Tug(s) are no more available to assist the vessel
- Start (Un)Mooring service: First Line Secured/Released First Mooring Line was secured or released
- Completion (Un)Mooring service: Last Line Secured / Released Last Mooring Line was secured or released

Actual times, not related to a specific service:

- Safe Access to Shore open: gangway in position as per applicable regulations
- Safe Access to Shore closed: gangway raised
- All Fast Al lines tight and secured, ETOPS secured if applicable
- All Clear All lines clear of propellers and thrusters

Service times, related to a specific trade:

Container ships:

- Start / complete unlashing
- Start / complete discharge/loading (first move last move)
- Start / complete lashing
- Start / complete moving gear boxes

Tankers:

- Start / complete cargo survey
- Start / complete connecting cargo arms/hoses
- Start / complete loading / discharge
- Start / complete disconnecting cargo arms/hoses

Bulk Carriers:

- Start / complete survey draught
- Start / complete loading / discharge

List of Abbreviations.

	A second state of the state of the state of the second state of
AVANTI	Access to Validated, Nautical Information
BIMCO	Baltic and International Maritime Council
DWT	Deadweight Tonnage
EHMC	European Harbour Masters Committee
ENC	Electronic Navigational Chart
ETOPS	Emergency Towing Off Pendants
FAL	Facilitation of International Maritime Traffic
GLN	Global Location Number
GT	Gross Tonnage
IALA	International Association of Marine Aids to Navigation
	and Lighthouse Authorities
IHMA	International Harbour Masters Association
IHO	International Hydrographic Organisation
ISO	International Organisation for Standardisation
ISPS	International Ship and Port Facility Security (Code)
LMIU	Lloyds Marine Intelligence Unit
LOA	Length Overall
OCIMF	Oil Companies International Marine Forum
PEC	Pilot Exemption Certificate
РМВ	Parallel Mid-Body
PRONTO	Port Rendezvous Of Nautical and Terminal Operations
SOLAS	Safety Of Life At Sea (Convention)
TSS	Traffic Separation Scheme
TZ	TimeZone
ИКС	Under Keel Clearance
ИКНО	United Kingdom Hydrographic Office
UKP&I	United Kingdom Protection and Indemnity (Club)
UN	United Nations
VHF	Very High Frequency
VTS	Vessel Traffic Service
WMO	World Meteorological Organisation

List of Sources.

The following sources have been used in the compilation of this document.

IHO S-32 Hydrographic Dictionary	Vessel berthing and Routing		
UKHO Mariner's Handbook NP100	All sections		
IMO ISM Code	Vessel Information		
ISO 8601	Times, Dates and other temporal definitions within all		
	sections		
IMO SOLAS Convention			
IALA Guide to VTS	Vessel Traffic Service Information		
International Harbour Masters'	Reports and Documentation, Services		
Association (IHMA)			
IMO International Convention on			
Load Lines.			

Measurements and Datums

The diagram below shows the relationship between the various terms and definitions used in the description of depths. Vessels engaged in port calls encounter depth measurements in a variety of forms and against multiple vertical datums. The diagram shown below is designed to make these measurements clear and to uniquely define the terms used.

Further information on the terms used here and the background to their definitions and use within Charts and Publications is contained in Admiralty publication NP100 The Mariner's Handbook and Admiralty Publications NP5011 and NP5012 which describe the symbols found within paper and ENC charts respectively.

Individual navigational charts will always contain definitions of which vertical datum is in use and the mariner is encouraged to use the diagram in conjunction with the appropriately scaled navigational chart when evaluating depth measurements and the calculation of under keel clearance.



Figure 1: Terms for Vertical Measurement of vessels, depths and elevations.

STANDARDS FOR NAUTICAL PORT INFORMATION

Standard Vessel Types.

The definitions below of standard vessel types are taken from the IHS "statcode" system for classifying vessels. This is the same system used when registering IMO numbers for individual vessels and is a comprehensive classification system used worldwide under the IMO SOLAS convention. A broad category is listed in bold with each specific vessel type listed beneath it.

Liquefied Gas

LNG Tanker CNG Tanker LPG Tanker LPG/Chemical Tanker LPG Barge, propelled CO2 Tanker

Chemical

Molten Sulphur Tanker Chemical Tanker Parcels Tanker Chemical Tanker Barge, propelled Chemical/Products Tanker Chemical/Products Tanker Barge, propelled Wine Tanker Vegetable Oil Tanker Edible Oil Tanker Beer Tanker Latex Tanker Fruit Juice Tanker

Oil

Shuttle Tanker Crude Oil Tanker Crude/Oil Products Tanker Products Tanker Tanker (unspecified) Products Tanker Barge, propelled Asphalt/Bitumen Tanker Coal/Oil Mixture Tanker

Other Liquids

Water Tanker Water Tanker Barge, propelled Molasses Tanker Glue Tanker Alcohol Tanker Caprolactam Tanker

Bulk Dry

Bulk Carrier Bulk Carrier, Laker Only Bulk Carrier (with Vehicle Decks) Bulk Barge, propelled Ore Carrier

Bulk Dry / Oil

Bulk/Oil Carrier (OBO) Ore/Bulk/Products Carrier Ore/Oil Carrier

Self Discharging Bulk Dry

Bulk Cargo Carrier, self discharging Bulk Cargo Carrier, self discharging, Laker Bulk Cargo Barge, self discharging, propelled

Other Bulk Dry

Cement Carrier Bulk Cement Barge, propelled Wood Chips Carrier, self unloading Urea Carrier Aggregates Carrier Limestone Carrier Refined Sugar Carrier Powder Carrier

General Cargo

General Cargo Ship (with Ro-Ro facility) Open Hatch Cargo Ship General Cargo/Tanker (Container/oil/bulk - COB ship) General Cargo/Tanker General Cargo Ship General Cargo Barge, propelled Palletised Cargo Ship Deck Cargo Ship

Passenger/General Cargo

General Cargo/Passenger Ship

Container

Container Ship (Fully Cellular) Container Ship (Fully Cellular with Ro-Ro Facility) Container Barge, propelled Passenger/Container Ship

Refrigerated Cargo. Refrigerated Cargo Ship

Ro-Ro Cargo.

Ro-Ro Cargo Ship Rail Vehicles Carrier Vehicles Carrier Car Carrier Container/Ro-Ro Cargo Ship Landing Craft

Passenger/Ro-Ro Cargo

Passenger/Ro-Ro Ship (Vehicles) Passenger/Ro-Ro Ship (Vehicles/Rail) Passenger/Landing Craft

Passenger

Passenger/Cruise Passenger Ship

Other Dry Cargo

Livestock Carrier Barge Carrier Barge Carrier, semi submersible Heavy Load Carrier Heavy Load Carrier, semi submersible Yacht Carrier, semi submersible Nuclear Fuel Carrier Nuclear Fuel Carrier (with Ro-Ro facility) Pulp Carrier

Fish Catching

Factory Stern Trawler Stern Trawler Trawler Fishing Vessel

Other Fishing

Fish Factory Ship Fish Carrier Live Fish Carrier (Well Boat) Fish Farm Support Vessel Fishery Patrol Vessel Fishery Research Vessel Fishery Support Vessel Seal Catcher Whale Catcher Kelp Dredger Pearl Shells Carrier

Offshore Supply

Crew/Supply Vessel

Pipe Carrier Platform Supply Ship Anchor Handling Tug Supply Offshore Tug/Supply Ship

Other Offshore

Offshore Support Vessel Diving Support Vessel Accommodation Ship Drilling Ship Pipe Layer Crane Vessel Pipe Layer Production Testing Vessel FPSO, Oil FPSO, Gas Well Stimulation Vessel Standby Safety Vessel FSO, Oil FSO, Gas Trenching Support Vessel Pipe Burying Vessel

Research

Research Survey Vessel

Towing/Pushing

Tug Pusher Tug

Dredging

Bucket Ladder Dredger Cutter Suction Dredger Grab Dredger Backhoe Dredger Bucket Wheel Suction Dredger Suction Dredger Dredger (unspecified) Water Injection Dredger Bucket Hopper Dredger Grab Hopper Dredger Suction Hopper Dredger Trailing Suction Hopper Dredger Hopper/Dredger (unspecified)

Other Activities

Hopper, Motor Stone Carrier Crane Ship Pile Driving Vessel Icebreaker Icebreaker/Research Cable Layer Cable Repair Ship Incinerator Waste Disposal Vessel Effluent carrier Fire Fighting Vessel **Pollution Control Vessel** Patrol Vessel Crew Boat **Training Ship** Utility Vessel Search & Rescue Vessel Pilot Vessel Salvage Ship **Buoy Tender Buoy & Lighthouse Tender** Lighthouse Tender Supply Tender Mooring Vessel Work/Repair Vessel Hospital Vessel Tank Cleaning Vessel Trans Shipment Vessel Anchor handling Vessel Rocket Launch Support Ship Log Tipping Ship Exhibition Vessel Theatre Vessel **Mission Ship** Bulk Dry Storage Ship Bulk Cement Storage Ship Minina Vessel Wind Turbine Installation Vessel Wind Turbine Installation Vessel (semi sub) Wind Turbine Vessel Bunkering Tanker Vessel (function unknown) Sailing Vessel

Inland Waterways Tanker Chemical Tanker, Inland Waterways Chemical/Products Tanker, Inland Waterways Oil Tanker, Inland Waterways Edible Oil Tanker, Inland Waterways Water Tanker, Inland Waterways

Vegetable Oil Tanker, Inland Waterways

Inland Waterways Dry Cargo/Passenger Bulk Cement Carrier, Inland Waterways Container Ship (Fully Cellular), Inland Waterways General Cargo, Inland Waterways General Cargo/Passenger Ship, Inland Waterways Ro-Ro Cargo Ship, Inland Waterways Passenger/Ro-Ro Ship (Vehicles), Inland Waterways Passenger/Ro-Ro Ship (Vehicles/Train), In Waterways Cruise Ship, Inland Waterways Passenger Ship, Inland Waterways

Inland Waterways Other Non Seagoing

Fishing, Inland Waterways Research, Inland Waterways Towing/Pushing, Inland Waterways Dredging, Inland Waterways Other Activities, Inland Waterways

Non Merchant Ships

Houseboat Yacht Yacht (Sailing) Sail Training Ship Crane Vessel, Naval Auxiliary Crew Boat, Naval Auxiliary Replenishment Dry Cargo Vessel Hospital Vessel, Naval Auxiliary Mooring Vessel, Naval Auxiliary Repair Vessel, Naval Auxiliary Training Ship, Naval Auxiliary Research Vessel, Naval Auxiliary **Replenishment Tanker** Unknown Function, Naval/Naval Auxiliary Diving Vessel, Naval Auxiliary Tug, Naval Auxiliary Salvage Vessel, Naval Auxiliary Naval Small Craft Boom defence Vessel **Degaussing Vessel** Minehunter Minelayer Minesweeper Netlaver Torpedo Recovery Vessel Troopship **Munitions Carrier** Submarine Salvage Vessel Aircraft Carrier Command Vessel Corvette Destroyer Escort Frigate Cruiser Helicopter Carrier Attack Vessel, Naval Patrol Vessel, Naval Torpedo Trials Vessel Weapons Trials Vessel Submarine Chaser Inlandrpedo Boat Water Tanker, Naval Auxiliary

Logistics Vessel (Naval Ro-Ro Cargo) Infantry Landing Craft Landing Ship (Dock Type) Tank Landing Craft Submarine Training Ship, Stationary Accommodation Vessel, Stationary Lightship Museum, Stationary Restaurant Vessel, Stationary Radio Station Vessel Casino, Stationary Oxygenation Vessel Unknown

Non Propelled

Bulk Aggregates Barge, non propelled Covered Bulk Cargo Barge, non propelled Bulk Cement Barge, non propelled Fish Storage Barge, non propelled General Cargo Barge, non propelled Bitumen Tank Barge, non propelled Trans Shipment Barge, non propelled Water Tank Barge, non propelled Hopper Barge, non propelled Cement Storage Barge, non propelled Chemical Tank Barge, non propelled LPG Tank Barge, non propelled Products Tank Barge, non propelled Chemical/Products Tank Barge, non propelled Crude Oil Tank Barge, non propelled Open Bulk Cargo Barge, non propelled Oil Storage Barge, non propelled Bulk Dry Storage Barge, non propelled Deck Cargo Pontoon, semi submersible Jacket Launching Pontoon, semi submersible **Bucket Dredger Pontoon** Deck Cargo Pontoon, non propelled Grab Dredger Pontoon Suction Dredger Pontoon Dredging Pontoon, unknown dredging type Water-injection Dredging Pontoon Crane Pontoon Electricity Generating Pontoon, non propelled Grain Elevating Pontoon, non propelled Sheerlegs Pontoon Desalination Pontoon, non propelled Shopping Complex Steam Supply Pontoon, non propelled Car Park Work/Maintenance Pontoon, non propelled Pontoon (Function Unknown) Inert Gas Processing Pontoon, non propelled

Jacket Launching Pontoon Permanent Shore Facility

Non Ship Structures

Air Cushion Vehicle Passenger/Ro-Ro Ship (Vehicles) Air Cushion Vehicle Passenger Air Cushion Vehicle, work vessel Wing In Ground Effect Vessel Air Cushion Vehicle Patrol Vessel Air Cushion Vehicle Crew Boat Air Cushion Vehicle Research Dock Gate Floating Dock Mechanical Lift Dock Accommodation Platform, semi submersible Drilling Rig, semi submersible Diving Support Platform, semi submersible Pipe layer Platform, semi submersible Maintenance Platform, semi Submersible Accommodation Platform, jack up Crane Platform, jack up Drilling Rig, jack up Maintenance Platform, jack up Supply Platform, jack up (Lift Boat) Pumping Platform Production Platform, semi submersible Supply Platform, semi submersible Crane Platform, semi submersible Pipe layer Platform, jack up Production Platform, jack up Radar Platform Mooring Buoy **Terminal Buoy** Linkspan/Jetty Submersible **Underwater System**

STANDARDS FOR NAUTICAL PORT INFORMATION