**IENC Feature Catalogue**

**Edition 2.4.0**

**09 April 2015**

**Inland specific elements  
(for the alignment with S-101)Introduction**

The IENC Feature Catalogue is based on features, attributes and enumerations of following Data Dictionaries

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Dictionary Name** | **Token** | **Owner** | **Place of Publishment** |
| HYDRO Data Dictionary | HYDRO | IHO | http://registry.iho.int |
| IENC Data Dictionary | IENC | IEHG | http://registry.iho.int |

**Used Abbreviations**

|  |  |  |  |
| --- | --- | --- | --- |
| Feature Types | | Feature Primitives | |
| G | Geo | P | Point |
| M | Meta | L | Line |
| C | Cartographic | A | Area |
| O | Collection | N | None |
| I | Information |  | |
|  | | | |
| Use of Feature Attribute Bindings | |  | |
| O | Optional |  | |
| M | Mandatory |  | |
| C | Conditional mandatory |  | |
|  | | | |
| Type of Attribute Use | | Type of Attribute Value | |
| F | Feature | E | Enumeration |
| N | National | L | List |
| S | Spatial | F | Float |
| C | Cartographic | I | Integer |
|  | | T | Text |
|  | | S | Structured text |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Anchorage area | | | | | | |
|  | | | | | | | | |
| Acronym: | | Anchorage area | | | | | Code: | ? |
| Type: | | G | | | | | | |
| Primitive: | | P,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | HYDRO | | Date accepted: | | ? | | | |
| Definition: | An area in which vessels or seaplanes anchor or may anchor.  (Adapted from IHO Dictionary – S-32). | | | | | | | |
|  | | | | Y | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| CATACH | O | Category of anchorage  value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15"  [1 : unrestricted anchorage  2 : deep water anchorage  3 : tanker anchorage  4 : explosives anchorage  5 : quarantine anchorage  6 : seaplane anchorage  7 : small craft anchorage  8 : small craft mooring area  9 : anchorage for periods up to 24 Hours  10 : anchorage for a limited period of time  11 : anchorage for other vessels than pushing-navigation vessels  12 : anchorage for dry cargo vessels  13 : anchorage for rafts  14 : waiting anchorage  15 : reported anchorage]  (1-10 and 14-15 from S-101, 11-13 inland specific) | Y | - |
| clsdng | O | value list = "1,2,3,4,5" |  |  |
| RESTRN | O | Restriction  value list = "2,3,4,5,6,8,9,10,11,12,13,15,16,17,18,19,20,21,23,24,27,28,29,30,31,32,33,34,35,36"  [  2 : anchoring restricted  3 : fishing prohibited  4 : fishing restricted  5 : trawling prohibited  6 : trawling restricted  8 : entry restricted  9 : dredging prohibited  10 : dredging restricted  11 : diving prohibited  12 : diving restricted  13 : no wake  15 : construction prohibited  16 : discharging prohibited  17 : discharging restricted  18 : industrial or mineral exploration/development prohibited  19 : industrial or mineral exploration/development restricted  20 : drilling prohibited  21 : drilling restricted  23 : cargo transshipment (lightening) prohibited  24 : dragging prohibited  27 : speed restricted  28 : swimming prohibited !!!!!!!!!!!!!!!!!!!!!!!!!!  29-36 inland specific] | 2,8, 13,27-36, add spuds prohibited | - |
| STATUS | O | Status  value list = "1,2,3,5,6,7,8,9,14,"  [1 : permanent  2 : occasional  3 : recommended  5 : periodic/intermittent  6 : reserved  7 : temporary  8 : private  9 : mandatory  14 : public  ] | N | - |
|  |  |  | Y |  |
|  |  |  | N |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
| TXTDSC | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" Fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" Periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Anchor berth | | | | | | |
|  | | | | | | | | |
| Acronym: | | Anchor berth | | | | | Code: | ? |
| Type: | | G | | | | | | |
| Primitive: | | P,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | HYDRO | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A designated area of water where a single vessel, seaplane, etc... may  anchor. (S-57 Edition 3.1, Appendix A – Chapter 1, Page 1.6, November 2000). | | | | | | | |
|  | | | | Y | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| CATACH | O | Category of anchorage  value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"  [1 : unrestricted anchorage  2 : deep water anchorage  3 : tanker anchorage  4 : explosives anchorage  5 : quarantine anchorage  6 : seaplane anchorage  7 : small craft anchorage  8 : small craft mooring area  9 : anchorage for periods up to 24 Hours  10 : anchorage for a limited period of time  11 : anchorage for other vessels than pushing-navigation vessels  12 : anchorage for dry cargo vessels  13 : anchorage for rafts]  (1-10 from S-101, 11-13 inland specific) | Y | - |
| clsdng | O | value list = "1,2,3,4,5" |  |  |
| RESTRN | O | value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36" |  | - |
| STATUS | O | value list = "1,2,3,4,5,6,7,8,9,14,"  [1 : permanent  2 : occasional  3 : recommended  4 : not in use  5 : periodic/intermittent  6 : reserved  7 : temporary  8 : private  9 : mandatory  14 : public  ] | N |  |
|  |  |  | Y |  |
| unlocd | C |  |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | O | Textual description |  | Y |
|  | O | Fixed date range |  | Y |
|  | O |  |  | Y |
|  | O | Periodic date range |  | Y |
|  | O |  |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Radius | N |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Beacon, lateral | | | | | | |
|  | | | | | | | | |
| Acronym: | | Bcnlat see BCNLAT | |  | |  | Code: | 17028 |
| Type: | | G | | | | | | |
| Primitive: | | P | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A beacon, is a prominent specially constructed object forming a conspicuous mark as a fixed aid to navigation or for use in hydrographic survey (IHO Dictionary, S-32, 5th Edition, 420). A lateral beacon, is used to indicate the port or starboard hand side of the route to be followed. They are generally used for well defined channels and are used in conjunction with a conventional direction of buoyage. (UKHO NP 735, 5th Edition) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints | | | |
| --- | --- | --- | --- | --- | --- |
| BCNSHP | M | value list = "1,5" | | | |
| catlam | M | value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23" | | | |
| COLOUR | M | value list = "1,2,3,4,5,6,7,8,9,10,11,12,13" | | | |
| COLPAT | C | value list = "1,2,3,4,5,6" | | | |
| dirimp | C | value list = "1,2,3,4" | | | |
| CONDTN | O | value list = "1,2,3,5" | | | |
| OBJNAM | O |  | | | |
| NOBJNM | O |  | | | |
| INFORM | O |  | | | |
| NINFOM | O |  | | | |
| SCAMIN | M | min = "1" | | | |
| PICREP | O |  | | | |
| TXTDSC | O |  | | | |
| DATSTA | O | format = "ccyymmdd" | | | |
| DATEND | O | format = "ccyymmdd" | | | |
| PERSTA | O | format = "ccyymmdd" | | | |
| PEREND | O | format = "ccyymmdd" | | | |
| SORDAT | C | format = "ccyymmdd" | | | |
| SORIND | C | format = "cc,cc,ccccc,c..." | | | |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Berth | | | | | | |
|  | | | | | | | | |
| Acronym: | | Berth | | | | | Code: | ? |
| Type: | | G | | | | | | |
| Primitive: | | P,L,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | HYDRO | | Date accepted: | | 2001-05-31 | | | |
| Definition: | Place in which a ship is moored at wharf. (IHO Dictionary – S-32). | | | | | | | |
|  | | | | Y | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catbrt | O | value list = "1,2,3,4,5,6,7,8" |  |  |
| clsdng | O | value list = "1,2,3,4,5" |  |  |
| DRVAL1 | O | Depth range minimum value  unit = "m" decimal digits = "2" |  |  |
| QUASOU | C | value list = "1,2,6,10,11"  [1 : depth known  2 : depth or least depth unknown  6 : least depth known  10 : maintained depth  11 : not regularly maintained] | N |  |
| SOUACC | C | unit = "m" decimal digits = "2" |  |  |
| STATUS | O | value list = "1,2,,5,7,9,12"  [1 : permanent  2 : occasional  5 : periodic/intermittent  7 : temporary  9 : mandatory  12 : illuminated  ] | N |  |
| trshgd | O | value list = "1,2,3,4,5,6,7,8,9,10" |  |  |
| unlocd | C |  |  |  |
| verdat | C | value list = "12,31,32,33,34,35,36,37,38,39,40,41" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | O | Textual description |  | Y |
|  | O | Fixed date range |  | Y |
|  | O |  |  | Y |
|  | O | Periodic date range |  | Y |
|  | O |  |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Horizontal clearance length | N |  |
|  |  | Horizontal clearance width | N |  |
|  |  | Maximum permitted draught | Y |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | span fixed and span opening? | | | | Y | |  | | |
|  | | | | | | | | | | |
| Acronym: | | span fixed and span opening? | | | | | | | Code: |  |
| Type: | | G | | | | | | | | |
| Primitive: | | L,A | | | | | | | | |
|  | | | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | | | |
| Definition: | A fixed component of the deck of a bridge spanning successive bridge piers. (Adapted from Defence Geospatial Information Working Group; Feature Data Dictionary Register, 2013).  And  An opening component of the deck of a bridge spanning successive bridge piers. ( Adapted from Defence Geospatial Information Working Group; Feature Data Dictionary Register, 2013). | | | | | | | | | |
|  | | | |  | | |  | | | |
| Attribute Bindings: | | | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| CATBRG | M | value list = "1,3,4,5,7,9,12" | Necessary for span, because one bridge can have different spans with different opening types |  |
|  | O | complex attribute horizontal clearance fixed | Y |  |
|  | -/M | complex attribute vertical clearance closed | Y |  |
|  | M/- | complex attribute vertical clearance fixed | Y |  |
|  | -/M | complex attribute vertical clearance open | Y |  |
| hunits | C | value list = "1,2,3,4,5,6" |  |  |
| unlocd | C |  |  |  |
| verdat | C | value list = "12,31,32,33,34,35,36,37,38,39,40,41" VERDAT | Y |  |
| wtwdis | C | decimal digits = "3" |  |  |
|  |  | value list = "1,2,3,5" | N |  |
|  |  |  | N |  |
|  |  |  |  |  |
|  | C | Information | Y | Y |
|  | O |  | Y | Y |
|  |  |  | N | N |
| PICREP | O | Pictorial representation |  | - |
|  | O | Textual description |  | Y |
|  |  | Time range |  | Y |
|  |  |  |  | Y |
|  |  |  | Y |  |
|  |  |  | Y |  |
|  |  |  | Y |  |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |
| refgag | C |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Bridge Arch Aggregation | | | | |
|  | | | | | | |
| Acronym: | | c\_brga | | | Code: | 18003 |
| Type: | | O | | | | |
| Primitive: | | N | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2012-08-03 | | |
| Definition: | A collection of the bridge arch elements comprising an entire bridge arch. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| PICREP | O |  |
| TXTDSC | O |  |
| NTXTDS | O |  |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c…" |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Bunker station | | | | |
|  | | | | | | |
| Acronym: | | bunsta | | | Code: | 17054 |
| Type: | | G | | | | |
| Primitive: | | P,A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A station, at which a ship is able to bunker fuel, water or ballast | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| bunves | M | value list = "1,2" |  |  |
| catbun | O | value list = "1,2,3" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O | Pictorial representation |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  | | | |
| catvol | C | value list = "1,2” |  |  |
| catfrg | C | value list = "1,2” |  |  |
| amoamp | C |  |  |  |
| allcon | O |  |  |  |
| catplg | O |  |  |  |
| shrnum | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Buoy, lateral | | | | | | |
|  | | | | | | | | |
| Acronym: | | see BOYLAT | |  | |  | Code: | 17029 |
| Type: | | G | | | | | | |
| Primitive: | | P | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A buoy, is a floating object moored to the bottom in a particular place, as an aid to navigation or for other specific purposes. (IHO Dictionary, S-32, 5th Edition, 565). A lateral buoy, is used to indicate the right-hand or left-hand side of a channel limit in the waterway. | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| BOYSHP | M | value list = "1,2,3,4,5,6,8" |
| catlam | M | value list = "1-27 " |
| COLOUR | M | value list = "1,2,3,4,5,6,7,8,9,10,11,12,13" |
| COLPAT | C | value list = "1,2,3,4,5,6" |
| CONRAD | O | value list = "3" |
| marsys | C | value list = "1,2,9,10,11,12,13,14,15" |
| OBJNAM | C |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Cable, overhead | | | | | | |
|  | | | | | | | | |
| Acronym: | | CBLOHD | | | | | Code: | 17012 |
| Type: | | G | | | | | | |
| Primitive: | | L | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A single continuous rope-like bundle consisting of multiple strands of fiber, plastic, metal, and/or glass, which is supported by structures such as poles or pylons and passing over or nearby navigable waters. (Adapted from Defence Geospatial Information Working Group; Feature Data Dictionary Register, 2012). | | | | | | | |
|  | | | | Clarify in EG that e.g. 5 cables of a powerline can be encoded as one | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catcbl | M | value list = "1,3,4,5,6,7" CATCBL 1-5  [1 : power line  3 : transmission line  4 : telephone  5 : telegraph  ~~6 : morring cable/chain~~   1. ~~: ferry cable]~~ | Keep 7 | - (D: we use 6,7) |
|  |  | complex attribute vertical clearance fixed | Y |  |
| hunits | O | value list = "1,2,3,4,5,6" |  |  |
| verdat | O | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" (VERDAT, no overlap in enumerations!) | Y |  |
| wtwdis | O | decimal digits = "3" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,5"  [1 : under construction  ~~2 : ruined~~  ~~3 : under reclamation~~  5 : planned construction] | Y |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O | Pictorial representation |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  |  |  |  | Y |
|  |  |  |  | Y |
| SORDAT | O | format = "ccyymmdd" Reported date |  | - |
|  |  |  |  | N |
|  |  | Ice factor (BO) | N |  |
|  |  | Multiplicity of features | N |  |
|  |  | Radar conspicuous (BO) | N |  |
|  |  | Status | N |  |
|  |  | Vertical clearance safe | N |  |
|  |  | Visually conspicuous | N |  |
| NTXTDS | O |  |  |  |
| refgag | C |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Checkpoint | | | | | | |
|  | | | | | | | | |
| Acronym: | | CHKPNT | | | | | Code: |  |
| Type: | | G | | | | | | |
| Primitive: | | P,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | ~~IENC~~ HYDRO | | Date accepted: | | 2001-05-31 | | | |
| Definition: | An official location at which to register, declare and/or inspect goods and/or people. (Adapted from Defence Geospatial Information Working Group; Feature Data Dictionary Register, 2010). | | | | | | | |
|  | | | | Y | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
|  | O | value list = "1,2" CATCHP 1  [1 : custom | N | - (DE: we use 1,2) |
|  |  |  | Y |  |
| unlocd | C |  |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | O | Textual description |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  |  |  | Y |
|  |  |  |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Status  1 : permanent  2 : occasional  5 : periodic/intermittent  7 : temporary  9 : mandatory  12 : illuminated | N |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Communication area | | | | |
|  | | | | | | |
| Acronym: | | comare | | | Code: | 17055 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | Indicates the coverage of an area, in which a vessel has to report or may request information. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catcom | O | value list = "1,2,3,4,5,6,7,8" |  |  |
| COMCHA | M | format = "xxxx;xxxx;...." |  |  |
| STATUS | O | value list = "2,3,4,8,9,12,14,16,17" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  |  |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd"fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Conveyor | | | | | | |
|  | | | | | | | | |
| Acronym: | | see CONVYR | |  | |  | Code: | 17034 |
| Type: | | G | | | | | | |
| Primitive: | | L,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A mechanical apparatus for moving bulk material or people from place to place (as by a moving belt or chain of receptacles). | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| CATCON | M | value list = "2" |
| PRODCT | O | value list = "1,2,3,4,5,6,7,8,14,15,17,21,22" |
| VERCLR | O | unit = "m " decimal digits = "2" |
| verdat | O | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Crane | | | | | | |
|  | | | | | | | | |
| Acronym: | | see CRANES | |  | |  | Code: | 17030 |
| Type: | | G | | | | | | |
| Primitive: | | P,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A machine for lifting, shifting and lowering objects or materials by means of a swinging boom or with a lifting apparatus supported on an overhead track. (Digital Geographic Information Working Group, Oct.87) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| CATCRN | O | value list = "2,3,4,5" |
| VERCLR | O | unit = "m" decimal digits = "2" |
| verdat | O | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Current, non-gravitational | | | | | | | | |
|  | | | | | | | | | | |
| Acronym: | | CURENT | | | | | | | Code: |  |
| Type: | | G | | | | | | | | |
| Primitive: | | P,L,A | | | | Y | |  | | |
|  | | | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | | | |
| Definition: | Any current that is caused by other than tide producing forces. Also called non-tidal current. (IHO Dictionary – S-32). | | | | | | | | | |
|  | | | | Y | | |  | | | |
| Attribute Bindings: | | | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| curvhw | C | unit = "km/h" decimal digits = "1" |  |  |
| curvlw | C | unit = "km/h" decimal digits = "1" |  |  |
| curvmw | C | unit = "km/h" decimal digits = "1" |  |  |
| curvow | C | unit = "km/h" decimal digits = "1" |  |  |
| dirimp | C | value list = "1,2,3,4" |  |  |
| hignam | C |  |  |  |
| lownam | C |  |  |  |
| meanam | C |  |  |  |
| othnam | C |  |  |  |
|  |  | complex attribute Orientation |  | Y |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | O | Textual description |  | Y |
|  |  | fixed date range |  | Y |
|  |  |  |  | Y |
|  |  | Periodic date range |  | Y |
|  |  |  |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Status  5 : periodic/intermittent | N |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Daymark | | | | | | |
|  | | | | | | | | |
| Acronym: | | see DAYMAR | |  | |  | Code: | 17035 |
| Type: | | G | | | | | | |
| Primitive: | | P | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2009-09-11 | | | |
| Definition: | The identifying characteristics of an aid to navigation which serve to facilitate its recognition against a daylight viewing background. On those structures that do not by themselves present an adequate viewing area to be seen at the required distance, the aid is made more visible by affixing a daymark to the structure. A daymark so affixed has a distinctive colour and shape depending on the purpose of the aid. (IHO Dictionary, S-32, 5th Edition, 1248) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| COLOUR | M | value list = "1,2,3,4,5,6,7,8,9,10,11,12,13" |
| COLPAT | C | value list = "1,2,3,4,5,6" |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| TOPSHP | M | value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33" |
| ORIENT | C | unit = "deg" decimal digits = "2" |
| dirimp | C | value list = "1,2,3,4" |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Depth area | | | | | | |
|  | | | | | | | | |
| Acronym: | | see DEPARE | |  | |  | Code: | 17003 |
| Type: | | G | | | | | | |
| Primitive: | | A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A depth area is a water area whose depth is within a defined range of values. | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| DRVAL1 | M | unit = "m" decimal digits = "2" |
| DRVAL2 | M | unit = "m" decimal digits = "2" |
| eleva1 | C | unit = "m" decimal digits = "2" |
| eleva2 | C | unit = "m" decimal digits = "2" |
| QUASOU | C | value list = "1,2,8,10,11" |
| hunits | M | value list = "1,2,3,4,5,6" |
| wtwdis | M | decimal digits = "3" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Distance mark | | | | | | |
|  | | | | | | | | |
| Acronym: | | DISMAR | | | | | Code: |  |
| Type: | | G | | | | | | |
| Primitive: | | P | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A distance mark indicates the distance measured from an origin and consists of either a solid visible structure or a distinct location without special installation. Usually found on canals (S-57 Edition 3.1, Appendix A – Chapter 1, Page 1.55, November 2000).. | | | | | | | |
|  | | | | Y | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| CATDIS | O | value list = "1,2,3,4" | N | - |
| hunits | M | value list = "1,2,3,4,5,6" |  |  |
| unlocd | C |  |  |  |
| wtwdis | M | decimal digits = " 1" Complex attribute Measured distance value (distance unit of measure, reference location, waterway distance) ? | Y |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" Fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  |  |  |  | Y |
|  |  |  |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Exceptional navigation structure | | | | |
|  | | | | | | |
| Acronym: | | excnst | | | Code: | 17070 |
| Type: | | G | | | | |
| Primitive: | | P,A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | An exceptional navigational construction like aqueduct, lift-lock, etc. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catexs | M | value list = "1,2,3,4,5" |  |  |
| DRVAL1 | M | unit = "m" decimal digits = "2" |  |  |
| unlocd | C |  |  |  |
| verdat | C | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |  |  |
| hunits | M | value list = "1,2,3,4,5,6" |  |  |
| wtwdis | M | decimal digits = "3" |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  |  |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |
| OBJNAM | O |  |  |  |
| NOBJNM | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Ferry route | | | | | | |
|  | | | | | | | | |
| Acronym: | | see FERYRT | |  | |  | Code: | 17013 |
| Type: | | G | | | | | | |
| Primitive: | | L | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A route in a body of water where a ferry crosses from one shoreline to another. (Digital Geographic Information Working Group, Oct.87) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| catfry | M | value list = "4" |
| NOBJNM | O |  |
| OBJNAM | O |  |
| STATUS | O | value list = "2,3,4,8,9,12,14,16,17" |
| INFORM | O |  |
| NINFOM | O |  |
| NTXTDS | O |  |
| PICREP | O |  |
| SCAMIN | M | min = "1" |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Floating dock | | | | | | |
|  | | | | | | | | |
| Acronym: | | see FLODOC | |  | |  | Code: | 17025 |
| Type: | | G | | | | | | |
| Primitive: | | A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A form of dry dock consisting of a floating structure of one or more sections which can be partly submerged by controlled flooding to receive a vessel, then raised by pumping out the water so that the vessel's bottom can be exposed. (IHO Dictionary, S-32, 5th Edition, 1427) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| DRVAL1 | O | unit = "m" decimal digits = "2" |
| HORCLR | O | unit = "m" decimal digits = "2" |
| HORLEN | O | unit = "m" decimal digits = "2" |
| horcll | O | unit = "m" decimal digits = "2" |
| horclw | O | unit = "m" decimal digits = "2" |
| HORWID | O | unit = "m" decimal digits = "2" |
| verdat | O | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Gate | | | | | | |
|  | | | | | | | | |
| Acronym: | | see GATCON | |  | |  | Code: | 17031 |
| Type: | | G | | | | | | |
| Primitive: | | L,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A structure that may be swung, drawn, or lowered to block an entrance or passageway. (United States Geological Survey, Jan.89) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| CATGAT | M | value list = "2,4" |
| HORCLR | M | unit = "m" decimal digits = "2" |
| VERCLR | O | unit = "m" decimal digits = "2" |
| hunits | C | value list = "1,2,3,4,5,6" |
| wtwdis | O | decimal digits = "3" |
| verdat | O | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| unlocd | C |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Harbour area (administrative) | | | | | | |
|  | | | | | | | | |
| Acronym: | | HRBARE | | | | | Code: |  |
| Type: | | G | | | | | | |
| Primitive: | | A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | The area over which a harbour authority has jurisdiction. (S-57 Edition 3.1, Appendix A – Chapter 1, Page 1.80, November 2000). | | | | | | | |
|  | | | | EG has to clarify distinction to port area. One harbor authority can be responsible for several harbor areas | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| cathbr | O | value list = "1,2,3,4,5" |  |  |
| unlocd | C |  |  |  |
|  |  |  | Y |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | O | Textual description |  | Y |
|  |  |  |  | Y |
|  |  |  |  | Y |
|  |  |  |  | Y |
|  |  |  |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Status  1 : permanent  4 : not in use  6 : reserved  8 : private  14 : public | 8,14 |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Harbour basin | | | | |
|  | | | | | | |
| Acronym: | | hrbbsn | | | Code: | 17056 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | An enclosed area of water surrounded by quay walls constructed to provide means for the transfer of cargos from and to ships (International Maritime Dictionary, 2d. Edtion). | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| HORLEN | O | unit = "m" decimal digits = "2" |  |  |
| HORWID | O | unit = "m" decimal digits = "2" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual desription |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" reported date |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Harbour facility | | | | | | |
|  | | | | | | | | |
| Acronym: | | see HRBFAC | |  | |  | Code: | 17015 |
| Type: | | G | | | | | | |
| Primitive: | | P,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A harbour installation with a service or commercial operation of public interest. | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| cathaf | M | value list = "4,6,9,12,13,16,17" |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Hulk | | | | | | |
|  | | | | | | | | |
| Acronym: | | see HULKES | |  | |  | Code: | 17020 |
| Type: | | G | | | | | | |
| Primitive: | | A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A permanently moored ship. | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| cathlk | O | value list = "1,2,3,4,5,6" |
| unlocd | C |  |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Lock basin | | | | |
|  | | | | | | |
| Acronym: | | LOKBSN | | | Code: | 17016 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | HYDRO | | Date accepted: | 2001-05-31 | | |
| Definition: | A lock basin is a wet dock in a waterway, permitting a ship to pass from one level to another. (adapted from IHO Dictionary, S-32, 5th Edition, 2881) | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| horcll | M | unit = "m" decimal digits = "2" |  |  |
| horclw | M | unit = "m" decimal digits = "2" |  |  |
| HORLEN | O | unit = "m" decimal digits = "2" |  |  |
| HORWID | O | unit = "m" decimal digits = "2" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" reported date |  | - |
| SORIND | C | format = "cc,cc,ccccc,c..." |  |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Lock basin part | | | | |
|  | | | | | | |
| Acronym: | | lkbspt | | | Code: | 17058 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A lock basin is divided into several lock basin parts, if this lock basin has one ground level but several gates. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| horcll | M | unit = "m" decimal digits = "2" |  |  |
| horclw | M | unit = "m" decimal digits = "2" |  |  |
| HORLEN | O | unit = "m" decimal digits = "2" |  |  |
| HORWID | O | unit = "m" decimal digits = "2" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Maximum permitted ship dimensions | | | | |
|  | | | | | | |
| Acronym: | | lg\_sdm | | | Code: | 18001 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | Waterway or waterway section for which a juridical regulation with respect to the maximum permitted vessel dimensions exists. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| lg\_rel | O | value list = "1,2,3,4" |  |  |
| lg\_des | O |  |  |  |
| lc\_csi | O | value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32" |  |  |
| lc\_cse | O | value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32" |  |  |
| lc\_asi | O | value list = "1,2,3,5,6,7,8,9,10" |  |  |
| lc\_ase | O | value list = "1,2,3,5,6,7,8,9,10" |  |  |
| lc\_cci | O | value list = "1,2,4,5,6,7,8,9" |  |  |
| lc\_cce | O | value list = "1,2,4,5,6,7,8,9" |  |  |
| lg\_bme | O | unit = "m" decimal digits = "2" |  |  |
| lg\_lgs | O | unit = "m" decimal digits = "2" |  |  |
| lg\_drt | O | unit = "m" decimal digits = "2" |  |  |
| lg\_wdp | O | decimal digits = "1" |  |  |
| lg\_wdu | O | value list = "1,2,3" |  |  |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| lg\_pbr | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Maximum permitted vessel speed | | | | |
|  | | | | | | |
| Acronym: | | lg\_vsp | | | Code: | 18002 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | Waterway or waterway section for which a juridical regulation with respect to the maximum permitted vessel speed exists. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| lg\_rel | O | value list = "1,2,3,4" |  |  |
| lg\_des | O |  |  |  |
| lc\_csi | O | value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32" |  |  |
| lc\_cse | O | value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32" |  |  |
| lc\_asi | O | value list = "1,2,3,5,6,7,8,9,10" |  |  |
| lc\_ase | O | value list = "1,2,3,5,6,7,8,9,10" |  |  |
| lc\_cci | O | value list = "1,2,4,5,6,7,8,9" |  |  |
| lc\_cce | O | value list = "1,2,4,5,6,7,8,9" |  |  |
| lg\_wdu | O | value list = "1,2,3" |  |  |
| lg\_spd | O | unit = "km/h" decimal digits = "2" |  |  |
| lg\_spr | O | value list = "1,2,3" |  |  |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| lg\_pbr | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Navigational system of marks | | | | | | |
|  | | | | | | | | |
| Acronym: | | M\_NSYS | | | | | Code: |  |
| Type: | | M | | | | | | |
| Primitive: | | A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | An area within which a specific system of navigational marks applies (Adapted from S-57 Edition 3.1, Appendix A – Chapter 1, Page 1.214, November 2000). | | | | | | | |
|  | | | | Y | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| MARSYS | M | value list = "1,2,9,10,11,12,13,14,15"  12-15 inland specific | Y | -(D:1,11) |
| SORDAT | C | format = "ccyymmdd" |  |  |
| SORIND | C | format = "cc,cc,ccccc,c..." |  |  |
|  |  | Information | N |  |
|  |  | Textual description | N |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Notice mark | | | | |
|  | | | | | | |
| Acronym: | | notmrk | | | Code: | 17050 |
| Type: | | G | | | | |
| Primitive: | | P | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A signboard used to indicate prohibitions, regulations, restrictions, recommendations and general information which apply to a waterway or a section of a waterway | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| addmrk | O | value list = "1,2,3,4,5" |  |  |
| catnmk | M | value list = "1 - 122" |  |  |
| dirimp | O | value list = "1,2,3,4,5" |  |  |
| disipd | O | unit = "m" decimal digits = "1" |  |  |
| disipu | O | unit = "m" decimal digits = "1" |  |  |
| disbk1 | O | unit = "m" decimal digits = "1" |  |  |
| disbk2 | O | unit = "m" decimal digits = "1" |  |  |
| fnctnm | M | value list = "1,2,3,4,5" |  |  |
| marsys | O | value list = "1,2,9,10,11,12,13,14,15" |  |  |
|  | C | unit = "deg" decimal digits = "2" complex attribute Orientation |  | Y |
| STATUS | O | value list = "2,3,4,8,9,12,14,16,17" |  |  |
| bnkwtw | O | value list = "1,2" |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Pipeline, overhead | | | | | | |
|  | | | | | | | | |
| Acronym: | | PIPOHD | | | | | Code: |  |
| Type: | | G | | | | | | |
| Primitive: | | L | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A string of interconnected pipes, supported by pylons and passing over or nearby navigable waters, used for the transport of matter, nowadays mainly oil or gas. (Adapted from IHO Dictionary – S-32 and S-57 Edition 3.1, Appendix A – Chapter 1, Page 1.119, November 2000). | | | | | | | |
|  | | | | Y | |  | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| CATPIP | M | value list = "2,3,4,6" |  |  |
| PRODCT | M | value list = "1,2,3,7,8,9,,18,19,20,22" | Y |  |
|  | M | unit = "m" decimal digits = "2" complex attribute vertical clearance fixed | Y |  |
| VERDAT | O | value list = "3,12,16-21,24-26,28-30,31,32,33,34,35,36,37,38,39,40,41,42,43,44" | Y | -(D:12,31,33-36) |
| hunits | O | value list = "1,2,3,4,5,6" |  |  |
| wtwdis | O | decimal digits = "3" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,5" | Y |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O | Pictorial representation |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  |  |  |  | Y |
|  |  |  |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
|  |  | Multiplicuty of features | N |  |
|  |  | Radar conspicuous (BO) |  | Y |
|  |  | Status  1 : permanent  4 : not in use  7 : temporary  12 : illuminated | N |  |
|  |  | Visually conspicuous |  | Y |
| NTXTDS | O |  |  |  |
| refgag | C |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Pontoon | | | | | | |
|  | | | | | | | | |
| Acronym: | | see PONTON | |  | |  | Code: | 17021 |
| Type: | | G | | | | | | |
| Primitive: | | A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A floating structure, usually rectangular in shape which serves as landing, pier head or bridge support. (IHO Dictionary, S-32, 5th Edition, 3947) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| unlocd | C |  |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Port area | | | | |
|  | | | | | | |
| Acronym: | | prtare | | | Code: | 17059 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | Apart from harbours a port includes a city or borough with accommodation and facilities for landing passangers and goods and some amount of overseas trade. A port may possess a harbour but a harbour is not necessarily a port (International Maritime Dictionary, 2d. Edition). | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual desription |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Radio calling-in point | | | | |
|  | | | | | | |
| Acronym: | | RDOCAL | | | Code: | 17017 |
| Type: | | G | | | | |
| Primitive: | | P,L | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | Also called radio reporting points, they have been established in certain busy waterways and port approaches to assist traffic control. On passing these points or crossing a defined line vessels are required to report on VHF to a Traffic Control Centre. (adapted from IHO Chart Specifications, M-4) | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catcom | M | value list = "1,2,3,4,5,6,7,8" |  |  |
| COMCHA | M | format = "xxxx;xxxx;...." communication channel |  | Y |
|  | M | unit = "deg" decimal digits = "2" complex attribute orientation |  | Y |
| TRAFIC | M | value list = "1,2,3,4" Traffic |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
| unlocd | C |  |  |  |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | C | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Call sign | Y |  |
|  |  | Status  1 : permanent  3 : recommended  4 : not in use  5 : periodic/intermittent  6 : reserved  7 : temporary  9 : mandatory | N |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Refuse dump | | | | |
|  | | | | | | |
| Acronym: | | Refdmp | | | Code: | 17062 |
| Type: | | G | | | | |
| Primitive: | | P | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | At a refuse dump ships are able to unload their refuse like waste oil or black water. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catrfd | O | value list = "1,2,3,4" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed ate range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Restricted area | | | | | | |
|  | | | | | | | | |
| Acronym: | | see RESARE | |  | |  | Code: | 17005 |
| Type: | | G | | | | | | |
| Primitive: | | A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A specified area designated by an appropriate authority within which navigation is restricted in accordance with certain specified conditions. (adapted from IHO Dictionary, S-32, 5th Edition, 4366) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| CATREA | O | value list = "4,5,9,12,19,22,23,25,26" |
| restrn | M | value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36,37,38" |
| NATSUR | O | value list = "1,2,3,4,5,6,7,8,9,11,14,17,18" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | C |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | C |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Sensor | | | | |
|  | | | | | | |
| Acronym: | | sensor | | | Code: | 18004 |
| Type: | | G | | | | |
| Primitive: | | P | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2011-12-19 | | |
| Definition: | A device that responds to a physical stimulus (as heat, light, sound, pressure, magnetism or a particular motion) and transmits a resulting impulse (as for measurement or operating a control). | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| catsen | M | value list = "1,2" |
| fnctsn | M | value list = "1" |
| SCAMIN | M | min = "1" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c…" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| TXTDSC | O |  |
| PICREP | O |  |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Shoreline Construction | | | | | | |
|  | | | | | | | | |
| Acronym: | | see SLCONS | |  | |  | Code: | 17032 |
| Type: | | G | | | | | | |
| Primitive: | | L,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A fixed (not afloat) artificial structure between the water and the land, i.e. a man-made coastline. | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| catslc | M | value list = "2,7,8,9,18,19,20" |
| NATCON | O | value list = "1,2,3,4,5,6,7,8,9" |
| watlev | C | value list = "1,2,3,4,8,9" |
| CONDTN | O | value list = "1,2,3,5" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Signal station, traffic | | | | | | |
|  | | | | | | | | |
| Acronym: | | SISTAT | | | | | Code: |  |
| Type: | | G | | | | | | |
| Primitive: | | P, A | | | N |  | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | | | |
| Definition: | A signal station is a place on shore from which signals are made to ships at sea. (IHO Dictionary, S-32, 5th Edition, 4742). Traffic signal stations regulate the movement of traffic. (IHO Chart Specifications, M-4) | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| CATSIT | M | value list = "1,2,3,4,5,6,7,8,9,10"  [1 : port control  2 : port entry and departure  3 : International Port Traffic  4 : berthing  5 : dock  6 : lock  7 : flood barrage  8 : bridge passage  9 : dredging  10 : traffic control light] | 2,5,6,7,8,  10 | -(D: 2,6,8, 10) |
| dirimp | O | value list = "1,2,3,4" |  |  |
|  |  |  | Y |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
| unlocd | C |  |  |  |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | O | Textual desription |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Communication channel | N |  |
|  |  | Status  1 : permanent  2 : occasional  4 : not in use  5 : periodic/intermittent  7 : temporary  8 : private  12 : illuminated  14 : public  15 : synchronized  16 : watched  17 : un-watched | N |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Signal station, warning | | | | | | | | |
|  | | | | | | | | | | |
| Acronym: | | SISTAW | | | | | | | Code: |  |
| Type: | | G | | | | | | | | |
| Primitive: | | P, A | | | |  | |  | | |
|  | | | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | | | |
| Definition: | A signal station is a place on shore from which signals are made to ships at sea. (IHO Dictionary, S-32, 5th Edition, 4742)  Warning signals are made to ships at sea. (Defence Geospatial Information Working Group; Feature Data  Dictionary Register, 2012). | | | | | | | | | |
|  | | | | Y | | |  | | | |
| Attribute Bindings: | | | | | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| CATSIW | M | value list = "1-14, 15,16,18"  [1 : danger  2 : maritime obstruction  3 : cable  4 : military practice  5 : distress  6 : weather  7 : storm  8 : ice  9 : time  10 : tide  11 : tidal stream  12 : tide gauge  13 : tide scale  14 : diving  15 : water level gauge  16 :  18 : ] | N | -(D:15,16, 18) |
|  |  |  | Y | - |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
|  |  |  |  | Y |
|  | C | Textual desription |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Communication channel | N |  |
|  |  | Status  [1 : permanent  2 : occasional  4 : not in use  5 : periodic/intermittent  7 : temporary  8 : private  12 : illuminated  14 : public  15 : synchronized  16 : watched  17 : un-watched] | N |  |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Sounding datum | | | | |
|  | | | | | | |
| Acronym: | | M\_SDAT | | | Code: |  |
| Type: | | M | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | An area of uniform sounding datum. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| VERDAT | M | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |  | - |
|  |  |  |  | N |
|  |  |  |  | N |
|  |  | Information | N |  |
|  |  | Textual description | N |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Terminal | | | | |
|  | | | | | | |
| Acronym: | | termnl | | | Code: | 17064 |
| Type: | | G | | | | |
| Primitive: | | P,A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A terminal covers that area on shore which provides buildings and constructions for the transfer of cargo or passengers from and to ships. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| cathaf | M | value list = "1,3,7,8,10,11" |  |  |
| trshgd | O | value list = "1,2,3,4,5,6,7,8,9,10" |  |  |
| unlocd | C |  |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Time Schedule - in general | | | | |
|  | | | | | | |
| Acronym: | | tisdge | | | Code: | 17068 |
| Type: | | O | | | | |
| Primitive: | | N | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A schedule listing events and the times at which they will take place (www.wordiq.com/dictionary). | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| aptref | O |  |  |  |
| cattab | M | value list = "1,2" |  |  |
| dirimp | O | value list = "1,2,3,4" |  |  |
| schref | M |  |  |  |
| shptyp | M | value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15" |  |  |
| useshp | M | value list = "1,2,3" |  |  |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Turning basin | | | | |
|  | | | | | | |
| Acronym: | | trnbsn | | | Code: | 17065 |
| Type: | | G | | | | |
| Primitive: | | P,A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | An area of water or enlargement of a channel used for turning vessels (International Maritime Dictionary, 2d Edition). | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| HORCLR | O | unit = "m" decimal digits = "2" |  |  |
| unlocd | C |  |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature | | Underwater rock / awash rock | | | | | | |
|  | | | | | | | | |
| Acronym: | | see UWTROC | |  | |  | Code: | 17033 |
| Type: | | G | | | | | | |
| Primitive: | | P,A | | | | | | |
|  | | | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | | | |
| DD Name: | IENC | | Date accepted: | | 2001-05-31 | | | |
| Definition: | A concreted mass of stony material or coral which dries, is awash or is below the water surface. | | | | | | | |
|  | | | | | | | | |
| Attribute Bindings: | | | | | | | | |

| acronym | usage | constraints |
| --- | --- | --- |
| VALSOU | M | unit = "m" decimal digits = "2" |
| watlev | M | value list = "1,2,3,4,8,9" |
| NATSUR | O | value list = "5,9,11,14,18" |
| QUASOU | O | value list = "1,2,8,10,11" |
| OBJNAM | O |  |
| NOBJNM | O |  |
| INFORM | O |  |
| NINFOM | O |  |
| SCAMIN | M | min = "1" |
| PICREP | O |  |
| TXTDSC | O |  |
| DATSTA | O | format = "ccyymmdd" |
| DATEND | O | format = "ccyymmdd" |
| PERSTA | O | format = "ccyymmdd" |
| PEREND | O | format = "ccyymmdd" |
| SORDAT | C | format = "ccyymmdd" |
| SORIND | C | format = "cc,cc,ccccc,c..." |
| NTXTDS | O |  |
| EXPSOU | C | value list = "1,2,3" |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Vehicle transfer | | | | |
|  | | | | | | |
| Acronym: | | vehtrf | | | Code: | 17069 |
| Type: | | G | | | | |
| Primitive: | | P,A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A place where vehicles can be loaded or unloaded from the inland vessel with onboard or on-shore facilities. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catvtr | M | value list = "1,2,3,4,5,6" |  |  |
| HEIGHT | M | unit = "m" decimal digits = "2" |  |  |
| unlocd | C |  |  |  |
| verdat | O | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Vertical datum | | | | |
|  | | | | | | |
| Acronym: | | M\_VDAT | | | Code: |  |
| Type: | | M | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | An area of uniform vertical datum. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| VERDAT | M | value list = "3,12,16-21,24-26,28-30,31,32,33,34,35,36,37,38,39,40,41,42,43,44" | Y | - |
|  | O | Information |  | Y |
|  | O |  |  | Y |
|  | O | Textual description |  | Y |
|  | O |  |  | Y |
|  |  |  |  | N |
|  |  |  |  | N |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Waterway area | | | | |
|  | | | | | | |
| Acronym: | | wtware | | | Code: | 17066 |
| Type: | | G | | | | |
| Primitive: | | A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | An area in which uniform general information of the waterway exists. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catccl | M | value list = "1,2,3,4,5,6,7,8,9,10,11" |  |  |
| dirimp | M | value list = "1,2,3,4" |  |  |
| unlocd | C |  |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual desription |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Waterway axis | | | | |
|  | | | | | | |
| Acronym: | | wtwaxs | | | Code: | 17051 |
| Type: | | G | | | | |
| Primitive: | | L | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | The waterway axis can be defined by e.g: - the middle line of a fairway, (Definition of fairway: That part of a river, harbour; etc. where the main navigable channel for vessels of larger size lies. It is also the usual course followed by vessels entering or leaving harbours, called ‘ship channel’. (International Maritime Dictionary, 2nd Ed.). - the middle line of a water way (Definition of waterway: The waterway covers the entire area of a river or canal). | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catccl | O | value list = "1,2,3,4,5,6,7,8,9,10,11,12" |  |  |
|  | M | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual description |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Waterway gauge | | | | |
|  | | | | | | |
| Acronym: | | wtwgag | | | Code: | 17067 |
| Type: | | G | | | | |
| Primitive: | | P,A | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A waterway gauge is an instrument for measuring water levels | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| catgag | O | value list = "1,2,3,4,5" |  |  |
| disipd | O | unit = "m" decimal digits = "1" |  |  |
| disipu | O | unit = "m" decimal digits = "1" |  |  |
| ELEVAT | O | unit = "m" decimal digits = "2" |  |  |
| higwat | O | unit = "m" decimal digits = "2" |  |  |
| hignam | O |  |  |  |
| lowwat | O | unit = "m" decimal digits = "2" |  |  |
| lownam | O |  |  |  |
| meawat | O | unit = "m" decimal digits = "2" |  |  |
| meanam | O |  |  |  |
| othwat | O | unit = "m" decimal digits = "2" |  |  |
| othnam | O |  |  |  |
| reflev | O | value list = "1,2,3,4,5,6,7,8,9,10" |  |  |
| sdrlev | O |  |  |  |
| unlocd | C |  |  |  |
| vcrlev | O |  |  |  |
| verdat | O | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |  |  |
| hunits | O | value list = "1,2,3,4,5,6" |  |  |
| wtwdis | O | decimal digits = "3" |  |  |
| CONDTN | O | value list = "1,2,3,5" |  |  |
|  | C | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual desription |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Feature | | Waterway profile | | | | |
|  | | | | | | |
| Acronym: | | wtwprf | | | Code: | 17052 |
| Type: | | G | | | | |
| Primitive: | | L | | | | |
|  | | | | | | |
| Data Dictionary (DD) Reference: | | | | | | |
| DD Name: | IENC | | Date accepted: | 2001-05-31 | | |
| Definition: | A waterway profile is an imaginary (i.e. physically non-existent) line across the waterway. | | | | | |
|  | | | | | | |
| Attribute Bindings: | | | | | | |

| acronym | usage | constraints |  |  |
| --- | --- | --- | --- | --- |
| hunits | M | value list = "1,2,3,5,6" |  |  |
| wtwdis | M | decimal digits = "3" |  |  |
| HEIGHT | C | unit = "m" decimal digits = "2" |  |  |
| reflev | C | value list = "1,2,3,4,5,6,7,8,9,10" |  |  |
| verdat | C | value list = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,44" |  |  |
|  | O | Feature name |  | Y |
|  | O |  |  | Y |
|  | O | Information |  | Y |
|  | O |  |  | Y |
| SCAMIN | O | min = "1" |  | N |
| PICREP | O |  |  | - |
|  | O | Textual desription |  | Y |
|  | O | format = "ccyymmdd" fixed date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
|  | O | format = "ccyymmdd" periodic date range |  | Y |
|  | O | format = "ccyymmdd" |  | Y |
| SORDAT | O | format = "ccyymmdd" |  | - |
|  |  |  |  | N |
| NTXTDS | O |  |  |  |