International list of Selected, Supplementary and Auxiliary ships

# Metadata fields & descriptions, exchange formats and code tables

## **Metadata Format Version 03**

Prepared for the World Meteorological Organization by the JCOMM Ship Observations Team



(Effective from 1 July 2007)

# **Metadata Format Version 03**

# **Document Version Tracking**

Metadata Format Version	<b>Document Version</b>	Date of Issue	Prepared By
01	1.0		WMO
02	2.0	8 July 2002	WMO
03	3.0	1 June 2006	SOT (Graeme Ball)
03	3.1	22 June 2006	SOT (Graeme Ball)
03	3.2	8 May 2007	SOT (Graeme Ball)
03	3.3	3 June 2008	SOT (Graeme Ball)

## **Metadata Format Version 03**

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#### **Metadata Format Version 03**

#### Introduction

WMO maintains a catalogue of ships participating in the global Voluntary Observing Ship (VOS) Scheme. The catalogue is produced from the national VOS lists submitted by WMO Members.

The catalogue, which contains a comprehensive range of ship's metadata, was originally available as a WMO publication, WMO-No. 47 (commonly referred to as Pub 47). Due to increasing printing and distribution costs, the publication was suspended in the late 1990s. An electronic version of the catalogue became available on the WMO website < <a href="http://www.wmo.ch/web/www/ois/pub47/pub47-home.htm">http://www.wmo.ch/web/www/ois/pub47/pub47-home.htm</a> > during 2003. Despite the changed method of distribution, the electronic file retains the name of the original publication.

Because of changing demands for ship's metadata, the Ship Observations Team (SOT) formed a Task Team at SOT-II (July 2003, London, UK) to revise the metadata requirements of WMO-No. 47. The proposed changes were subsequently approved at JCOMM-II (September 2006, Halifax, Canada).

This document describes the field descriptions, presentation layout and file exchange formats for WMO-No. 47, Metadata Format Version 03, approved at JCOMM-II.

WMO-No. 47, Metadata Format Version 03, comes into effect on 1 July 2007.

#### Summary of changes in this version

This document, WMO-No. 47 Document Version 3.3, includes an updated Table 1801, which contains the two character country codes for the fields **reg** and **rcnty**.

#### **Metadata Format Version 03**

## **Obligations for WMO Members**

- 1. Paragraphs 2.3.3.3 and 2.3.3.4 of the Manual on the Global Observing System, WMO-No, 544, requires WMO Members operating a VOS Program to provide the WMO Secretariat with a copy of their national VOS list.
- 2. Because of frequent changes in merchant fleets and to ensure that WMO-No. 47 remains as current as is practicable, paragraph 6.2.5 of the Guide to Marine Meteorological Services, WMO-No. 671, requests WMO Members to make quarterly submissions of their national VOS list to the WMO Secretariat, rather than annually as required by WMO-No. 544.
- 3. WMO Members submitting to WMO-No. 47 should note the following:
  - a. To comply with the decision of the WMO Expert Team on Marine Climatology, only mobile platforms, including ships either temporarily or semi-permanently at anchor, shall be reported in WMO-No. 47. Fixed platforms shall be reported under the JCOMM ODAS metadata scheme.
  - b. The list of ships shall be sorted alphabetically by name.
  - c. Only mobile platforms recruited by the WMO Member shall be included in its national VOS list.
  - d. Ship's digital images and drawings shall be retained by the NMS.
- 4. WMO Members should ensure that ships they intend to recruit are not already members of another country's VOS fleet by consulting the WMO-No. 47.
- 5. WMO Members are strongly encouraged to use the search facility provided for EUCOS by Météo France at < <a href="http://www.meteo.shom.fr/vos-monitoring/multi-recruit.html">http://www.meteo.shom.fr/vos-monitoring/multi-recruit.html</a> > to search for incidences of multiple-recruitment of ships in their national VOS fleet. In such cases, the recruiting countries should resolve the issue through bilateral agreement.
- 6. The national VOS lists shall be emailed to the WMO Secretariat at: <a href="mailto:pub47@wmo.int">pub47@wmo.int</a>.

#### **Metadata Format Version 03**

## General notes on exchange formats and XML schema

WMO-No. 47, Metadata Format Version 03, now gives WMO Members the choice of submitting their national VOS list as either a semi-colon delimited text file as in the past, or an XML (eXtensible Markup Language) file.

#### Semi-colon delimited file

- 1. The file shall contain one line, comprising 119 metadata elements, for each platform.
- 2. The sequence of elements shall be in the order as given in Annex 1.
- 3. Each metadata element includes a semi-colon (;) delimiter as the last character as shown in Annex 1.

#### XML file

- 1. The structure of the XML file shall be as given in Annex 3
- 2. The XML file shall consist of a top-level header: <?xml version="1.0"?>.
- 3. The dataset shall begin with an opening tag: <pub47dataset country="" version="03" namespace>, where namespace consists of two parts, (a) and (b) below, separated by a space:
  - a. xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  - b. xsi:noNamespaceSchemaLocation="http://www.bom.gov.au/jcomm/vos/pub47/pub47.xsd"
- 4. The dataset shall end with a closing tag: </pub47dataset>.
- 5. Each ship record in the dataset will comprise 97 metadata elements and section headers, and shall:
  - a. Begin with an opening tag: <pub47record nmsID="">
  - b. End with a closing tag </pub47record>.

#### XML schema

- 1. Full documentation of the XML schema for WMO-No. 47, Metadata Format Version 03, is available in both HTML and PDF formats from the **VOS website** at < http://www.bom.gov.au/jcomm/vos/ >.
- 2. From the menu select Information » WMO-No. 47 XML Schema.

## **Metadata Format Version 03**

# Semi-colon delimited exchange format – fields and descriptions

Order	Code Name	Explanation	Table	Format	Footnote	Example
1	rcnty;	Recruiting country.	1801		No	
2	ver;	Metadata format version			No	03
3	prepared;	Date of report preparation.		ddmmyyyy	No	
4	name;	Ship's name.			No	
5	reg;	Country of registration.	1801		No	
6	call;	Call sign or WMO Number. Some sea stations are identified by a WMO Number instead of a call sign.			No	
7	IMOn;	IMO Number. Unique identifying number assigned by Lloyd's Register to the hull of the ship.			No	
8	vssl;	Vessel type.	2201		Yes	
9	vssIP;	Vessel digital image.	2203		No	
10	lenvssID;	Length overall of the ship, ignoring bulbous bow.		0.0 m	No	
11	brdvssID;	Moulded breadth. The greatest breadth amidships.		0.0 m	No	
12	frbvssID;	Freeboard. The average height of the upper deck above the maximum Summer load line.		0.0 m	No	
13	drfvssID;	Draught. The average depth of the keel below the maximum Summer load line.		0.0 m	No	
14	chtvssID;	Cargo height. Maximum height above the maximum Summer load line.		0.0 m	No	
15	brdg;	Distance of the bridge from the bow.		0.0 m	No	
16	rte;	Route No.1.	1802		Yes	
17	rte;	Route No.2.	1802		Yes	
18	rte;	Route No.3.	1802		Yes	
19	rte;	Route No.4.	1802		Yes	
20	rte;	Route No.5.	1802	Yes		
21	rte;	Route No.6.	1802	Yes		
22	rte;	Route No.7	1802		Yes	
23	rte;	Route No.8.	1802		Yes	

24	rte;	Route No.9.	1802		Yes	
25	rte;	Route No.10.	1802		Yes	
26	vosR;	Recruitment date of the current VOS participation.		ddmmyyyy	No	
27	vosD;	De-recruitment date of the last VOS participation (report only if the vessel has been re-recruited).		ddmmyyyy	No	
28	vclmR;	Last VOSClim recruitment date if within the current period of VOS participation.		ddmmyyyy	No	
29	vclmD;	Last VOSClim de-recruitment date if within the current period of VOS participation.		ddmmyyyy	No	
30	vssIM;	Type of meteorological reporting ship.	2202		Yes	
31	atm;	General observing practice.	0105		Yes	
32	freq;	Routine observing frequency.	0602		Yes	
33	prST;	Satellite system for transmitting reports.			No	INMARSAT-C
34	logE;	Name and version of the electronic logbook software.			No	TurboWin 2.12
35	wwH;	Visual wind/wave observing height.		0.0 m	No	
36	anmU;	General wind observing practice.	0103		No	
37	blc;	Baseline check of the automatic weather station.	0203		No	
38	awsM;	Make and model of the automatic weather station.			No	Vaisala Milos 500
39	awsP;	Name and version of the automatic weather station processing software.			No	Milos 500 2.56
40	awsC;	Name and version of the automatic weather station data entry/display software.			No	Yourlink 1.03.20
41	barm;	Primary barometer type.	0202		Yes	
42	barm;	Secondary barometer type.	0202		Yes	
43	bMS;	Make and model of the primary barometer.			No	Vaisala PTB220B
44	bMS;	Make and model of the secondary barometer.			No	
45	brmH;	Height of the primary barometer above the maximum Summer load line.		0.0 m	No	
46	brmH;	Height of the secondary barometer above the maximum Summer load line.		0.0 m	No	
47	brmL;	Location of the primary barometer.	0204		Yes	
48	brmL;	Location of the secondary barometer.	0204		Yes	
49	brmU;	Pressure units of the primary barometer.			No	hPa
50	brmU;	Pressure units of the secondary barometer.			No	
51	brmC;	Most recent calibration date of the primary barometer.		ddmmyyyy	No	
52	brmC;	Most recent calibration date of the secondary barometer.		ddmmyyyy	No	
53	thrm;	Dry bulb thermometer type No.1.	2002		Yes	
54	thrm;	Dry bulb thermometer type No.2.	2002		Yes	
55	thMS;	Make and model of the dry bulb thermometer No.1.			No	Rosemount ST401

56	thMS;	Make and model of the dry bulb thermometer No.2.			No	
57	thmE;	Exposure of the dry bulb thermometer No.1.	0801		Yes	
58	thmE;	Exposure of the dry bulb thermometer No.2.	0801		Yes	
59	thmL;	Location of dry bulb thermometer No.1 and hgyrometer No.1.	2001		Yes	
60	thmL;	Location of dry bulb thermometer No.2 and hgyrometer No.2.	2001		Yes	
61	thmH;	Height of the dry bulb thermometer No.1 and hygrometer No.1 above the maximum Summer load line.		0.0 m	No	
62	thmH;	Height of the dry bulb thermometer No.2 and hygrometer No.2 above the maximum Summer load line.		0.0 m	No	
63	tscale;	General reporting practice for dry bulb thermometer No.1 and hygrometer No.1.	2003		Yes	
64	tscale;	General reporting practice for dry bulb thermometer No.2 and hygrometer No.2.	2003		Yes	
65	hygr;	Hygrometer type No.1.	0802		Yes	
66	hygr;	Hygrometer type No.2.	0802		Yes	
67	hgrE;	Exposure of the hygrometer No.1.	0801		No	
68	hgrE;	Exposure of the hygrometer No.2.	0801		No	
69	sstM;	Primary method of obtaining the sea surface temperature.	1901		Yes	
70	sstM;	Secondary method of obtaining the sea surface temperature.	1901		Yes	
71	sstD;	Depth of the primary sea surface temperature observation below the maximum Summer load line.		0.0 m	No	
72	sstD;	Depth of the secondary sea surface temperature observation below the maximum Summer load line.		0.0 m	No	
73	barg;	Primary barograph type, or method of determining pressure tendency.	0201		Yes	
74	barg;	Secondary barograph type, or method of determining pressure tendency.	0201		Yes	
75	anmT;	Primary anemometer type.	0102		Yes	
76	anmT;	Secondary anemometer type.	0102		Yes	
77	anmM;	Make and model of the primary anemometer.			No	Vaisala WAV151 & WAA151
78	anmM;	Make and model of the secondary anemometer.			No	
79	anmL;	Location of the primary anemometer.	0101		Yes	
80	anmL;	Location of the secondary anemometer.	0101		Yes	
81	anDB;	Distance of the primary (fixed) anemometer from the bow.		0.0 m	No	
82	anDB;	Distance of the secondary (fixed) anemometer from the bow.		0.0 m	No	
83	anDC;	Distance of the primary (fixed) anemometer from the centre line.		0.0 m	No	
84	anSC;	Side indicator of the primary (fixed) anemometer from the centre line, if appropriate.	0104		No	
85	anDC;	Distance of the secondary (fixed) anemometer from the centre line.		0.0 m	No	
86	anSC;	Side indicator of the secondary (fixed) anemometer from the centre line, if appropriate.	0104		No	
87	anHL;	Height of the primary (fixed) anemometer above the maximum Summer load line.		0.0 m	No	

88	anHL;	Height of the secondary (fixed) anemometer above the maximum Summer load line.		0.0 m	No	
89	anHD;	Height of the primary (fixed) anemometer above the deck on which it is installed.		0.0 m	No	
90	anHD;	Height of the secondary (fixed) anemometer above the deck on which it is installed.				
91	anmC;	Most recent calibration date of the primary anemometer.	ddmmyyyy	No		
92	anmC;	Most recent calibration date of the secondary anemometer.		ddmmyyyy	No	
93	othl;	Other meteorological/oceanographic instrument No.1.	1501		Yes	
94	othI;	Other meteorological/oceanographic instrument No.2.	1501		Yes	
95	othI;	Other meteorological/oceanographic instrument No.3.	1501		Yes	
96	othI;	Other meteorological/oceanographic instrument No.4.	1501		Yes	
97	othI;	Other meteorological/oceanographic instrument No.5.	1501		Yes	
98	othI;	Other meteorological/oceanographic instrument No.6.	1501		Yes	
99	chgd;	Last date of change to any metadata value.		ddmmyyyy	No	
100	fieldabbrev;	Code name of the field to which footnote No. 1 applies.	0601			vssl
101	fieldabbrev;	Code name of the field to which footnote No. 2 applies.	0601			thmE
102	fieldabbrev;	Code name of the field to which footnote No. 3 applies.	0601			rte
103	fieldabbrev;	Code name of the field to which footnote No. 4 applies.	0601			
104	fieldabbrev;	Code name of the field to which footnote No. 5 applies.	0601			
105	fieldabbrev;	Code name of the field to which footnote No. 6 applies.	0601			
106	fieldabbrev;	Code name of the field to which footnote No. 7 applies.	0601			
107	fieldabbrev;	Code name of the field to which footnote No. 8 applies.	0601			
108	fieldabbrev;	Code name of the field to which footnote No. 9 applies.	0601			
109	fieldabbrev;	Code name of the field to which footnote No. 10 applies.	0601			
110	footID;	Footnote No. 1 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				Ice strengthened
111	footID;	Footnote No. 2 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				Plastic screen
112	footID;	Footnote No. 3 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				Area 73 – Austral Summer only
113	footID;	Footnote No. 4 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				,
114	footID;	Footnote No. 5 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				
115	footID;	Footnote No. 6 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				
116	footID;	Footnote No. 7 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				
117	footID;	Footnote No. 8 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				
118	footID;	Footnote No. 9 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				
119	footID;	Footnote No. 10 (Mandatory extra details if code <b>OT</b> is reported. Optional if <b>Yes</b> in footnote column)				

## **Metadata Format Version 03**

# XML exchange format – fields and descriptions

Order	Code Name	Header Code Name Explanation Ta		Format	Footnote*	Example
1	country	Recruiting country.	1801		No	
2	version	Metadata format version			No	03
3	prepared	Date of report preparation.		yyyymmdd	No	

Order	Code Name	Record Code Name Explanation	Table	Format	Footnote*	Example
1	nmsID	NMS reference number. Unique reference or identifier assigned by the NMS to the ship (if applicable).			No	
2	name	Ship's name.			No	
3	reg	Country of registration.	1801		No	
4	call	Call sign or WMO Number. Some sea stations are identified by a WMO Number instead of a call sign.			No	
5	IMOn	IMO Number. Unique identifying number assigned by Lloyd's Register to the hull of the ship.			No	
6	vssl	Vessel type.	2201		Yes	
7	vssIP	Vessel digital image.	2203		No	
8	lenvssID	Length overall of the ship, ignoring bulbous bow.		0.0 m	No	
9	brdvssID	Moulded breadth. The greatest breadth amidships.		0.0 m	No	
10	frbvssID	Freeboard. The average height of the upper deck above the maximum Summer load line.		0.0 m	No	
11	drfvssID	Draught. The average depth of the keel below the maximum Summer load line.		0.0 m	No	
12	chtvssID	Cargo height. Maximum height above the maximum Summer load line.		0.0 m	No	
13	brdg	Distance of the bridge from the bow.		0.0 m	No	
14	rte	Route No.1.	1802		Yes	
15	rte	Route No.2.	1802		Yes	
16	rte	Route No.3.	1802		Yes	
17	rte	Route No.4.	1802		Yes	
18	rte	Route No.5.	1802		Yes	

19	rte	Route No.6.	1802		Yes	
20	rte	Route No.7	1802		Yes	
21	rte	Route No.8.	1802		Yes	
22	rte	Route No.9.	1802		Yes	
23	rte	Route No.10.	1802		Yes	
24	vosR	Recruitment date of the current VOS participation.		yyyymmdd	No	
25	vosD	De-recruitment date of the last VOS participation (report only if the vessel has been re-recruited).		yyyymmdd	No	
26	vclmR	Last VOSClim recruitment date if within the current period of VOS participation.		yyyymmdd	No	
27	vclmD	Last VOSClim de-recruitment date if within the current period of VOS participation.		yyyymmdd	No	
28	vssIM	Type of meteorological reporting ship.	2202		Yes	
29	atm	General observing practice.	0105		Yes	
30	freq	Routine observing frequency.	0602		Yes	
31	prST	Satellite system for transmitting reports.			No	INMARSAT-C
32	logE	Name and version of the electronic logbook software.			No	TurboWin 2.12
33	wwH	Visual wind/wave observing height.		0.0 m	No	
34	anmU	General wind observing practice.	0103		Yes	
35	blc	Baseline check of the automatic weather station.	0203		Yes	
36	awsM	Make and model of the automatic weather station.			No	Vaisala Milos 500
37	awsP	Name and version of the automatic weather station processing software.			No	Milos 500 2.56
38	awsC	Name and version of the automatic weather station data entry/display software.			No	Yourlink 1.03.20
39	barm	Primary barometer type.	0202		Yes	
40	bMS	Make and model of the primary barometer.			No	Vaisala PTB220B
41	brmH	Height of the primary barometer above the maximum Summer load line.		0.0 m	No	
42	brmL	Location of the primary barometer.	0204		Yes	
43	brmU	Pressure units of the primary barometer.			No	hPa
44	brmC	Most recent calibration date of the primary barometer.		yyyymmdd	No	
45	barm	Secondary barometer type.	0202		Yes	
46	bMS	Make and model of the secondary barometer.			No	
47	brmH	Height of the secondary barometer above the maximum Summer load line.		0.0 m	No	
48	brmL	Location of the secondary barometer.	0204		Yes	
49	brmU	Pressure units of the secondary barometer.			No	
50	brmC	Most recent calibration date of the secondary barometer.		yyyymmdd	No	
51	thrm	Dry bulb thermometer type No.1.	2002		Yes	

52	thMS	Make and model of the dry bulb thermometer No.1.			No	Rosemount ST401
53	thmE	Exposure of the dry bulb thermometer No.1.	0801		Yes	
54	thmL	Location of dry bulb thermometer No.1 and hgyrometer No.1.	2001		Yes	
55	thmH	Height of the dry bulb thermometer No.1 and hygrometer No.1 above the maximum Summer load line.		0.0 m	No	
56	tscale	General reporting practice for dry bulb thermometer No.1 and hygrometer No.1.	2003		Yes	
57	thrm	Dry bulb thermometer type No.2.	2002		Yes	
58	thMS	Make and model of the dry bulb thermometer No.2.			No	
59	thmE	Exposure of the dry bulb thermometer No.2.	0801		Yes	
60	thmL	Location of dry bulb thermometer No.2 and hgyrometer No.2.	2001		Yes	
61	thmH	Height of the dry bulb thermometer No.2 and hygrometer No.2 above the maximum Summer load line.		0.0 m	No	
62	tscale	General reporting practice for dry bulb thermometer No.2 and hygrometer No.2.	2003		Yes	
63	hygr	Hygrometer type No.1.	0802		Yes	
64	hgrE	Exposure of the hygrometer No.1.	0801		Yes	
65	hygr	Hygrometer type No.2.	0802		Yes	
66	hgrE	Exposure of the hygrometer No.2.	0801		Yes	
67	sstM	Primary method of obtaining the sea surface temperature.	1901		Yes	
68	sstD	Depth of the primary sea surface temperature observation below the maximum Summer load line.		0.0 m	No	
69	sstM	Secondary method of obtaining the sea surface temperature.	1901		Yes	
70	sstD	Depth of the secondary sea surface temperature observation below the maximum Summer load line.		0.0 m	No	
71	barg	Primary barograph type, or method of determining pressure tendency.	0201		Yes	
72	barg	Secondary barograph type, or method of determining pressure tendency.	0201		Yes	
73	anmT	Primary anemometer type.	0102		Yes	
74	anmM	Make and model of the primary anemometer.			No	Vaisala WAV151 & WAA151
75	anmL	Location of the primary anemometer.	0101		Yes	-
76	anDB	Distance of the primary (fixed) anemometer from the bow.		0.0 m	No	
77	anDC	Distance of the primary (fixed) anemometer from the centre line.		0.0 m	No	
78	anSC	Side indicator of the primary (fixed) anemometer from the centre line, if appropriate.	0104		No	
79	anHL	Height of the primary (fixed) anemometer above the maximum Summer load line.		0.0 m	No	
80	anHD	Height of the primary (fixed) anemometer above the deck on which it is installed.		0.0 m	No	
81	anmC	Most recent calibration date of the primary anemometer.		yyyymmdd	No	
82	anmT	Secondary anemometer type.	0102		Yes	
83	anmM	Make and model of the secondary anemometer.			No	

84	anmL	Location of the secondary anemometer.	0101		Yes	
85	anDB	Distance of the secondary (fixed) anemometer from the bow.		0.0 m	No	
86	anDC	Distance of the secondary (fixed) anemometer from the centre line.		0.0 m	No	
87	anSC	Side indicator of the secondary (fixed) anemometer from the centre line, if appropriate.	0104		No	
88	anHL	Height of the secondary (fixed) anemometer above the maximum Summer load line.		0.0 m	No	
89	anHD	Height of the secondary (fixed) anemometer above the deck on which it is installed.		0.0 m	No	
90	anmC	Most recent calibration date of the secondary anemometer.		yyyymmdd	No	
91	othI	Other meteorological/oceanographic instrument No.1.	1501		Yes	
92	othl	Other meteorological/oceanographic instrument No.2.	1501		Yes	
93	othl	Other meteorological/oceanographic instrument No.3.	1501		Yes	
94	othl	Other meteorological/oceanographic instrument No.4.	1501		Yes	
95	othl	Other meteorological/oceanographic instrument No.5.	1501		Yes	
96	othl	Other meteorological/oceanographic instrument No.6.	1501	01 Yes		
97	chgd	Last date of change to any metadata value.		yyyymmdd	No	

<sup>\*</sup> Provision to report a footnote (Mandatory extra detail if **OT** is selected from a Code Table. Optional if **Yes** in footnote column)

#### **Metadata Format Version 03**

## **XML File Structure**

```
<?xml version="1.0"?>
<pub/>pub47dataset country="" version="03" prepared="" namespace>
        <pub/>pub47record nmsID="">
                <name/>
                <reg/>
                <call/>
                <IMOn/>
                <vssl footnote=""/>
                <digital_image>
                        <vssIP/>
                </digital_image>
                <dimensions>
                        <lenvssID/>
                        <br/>brdvssID/>
                        <frbvssID/>
                        <drfvssID/>
                        <chtvssID/>
                        <br/>brdg/>
                </dimensions>
                <operations>
                        <rte Id="1" footnote=""/>
                        <rte Id="2" footnote=""/>
                        <rte Id="3" footnote=""/>
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## **Metadata Format Version 03**

## **Code Tables**

Table	Code	Description
0101	anmL	Location of the anemometer.
0102	anmT	Anemometer type.
0103	anmU	General wind observing practice.
0104	anSC	Side indicator of the (fixed) anemometer from the centre line, if appropriate.
0105	atm	General observing practice.
0201	barg	Barograph type, or method of determining pressure tendency.
0202	barm	Barometer type.
0203	blc	Baseline check of the automatic weather station.
0204	brmL	Location of the barometer.
0601	fieldabbrev	Code name of the field to which the footnote applies (in order of reporting in pub47).
0602	freq	Routine observing frequency.
0001	hgrE	Exposure of the hygrometer.
0801	thmE	Exposure of the dry bulb thermometer.
0802	hygr	Hygrometer type.
1501	othl	Other meteorological/oceanographic instrument.
1801	rcnty	Recruiting country.
1001	reg	Country of registration.
1802	rte	Route
1901	sstM	Method of obtaining the sea surface temperature.
2001	thmL	Location of the dry bulb thermometer and hygrometer
2002	thrm	Dry bulb thermometer type.
2003	tscale	General temperature reporting practice.
2201	vssl	Vessel type.
2202	vsslM	Type of meteorological reporting ship.
2203	vssIP	Vessel digital image.

Changes to Code Table entries are denoted by a solid black block to the extreme right.

#### anmL Location of the anemometer.

Code	Description
1	Not fitted.
2	Mainmast.
3	Mainmast port yardarm.
4	Mainmast starboard yardarm.
5	Aft mast.
6	Foremast.
7	Foremast port yardarm.
8	Foremast starboard yardarm.
9	Meteorological mast.
10	Mast on wheelhouse top.
11	Mast on wheelhouse top port yardarm.
12	Mast on wheelhouse top starboard yardarm.
13	Handheld.
ОТ	Other (specify in footnote).

#### 0102

## anmT Anemometer type.

Code	Description
AN	Anemograph.
CCV	Cup anemometer and wind vane (combined unit).
SCV	Cup anemometer and wind vane (separate instruments).
HA	Handheld anemometer.
PV	Propeller vane.
SON	Sonic anemometer.
OT	Other (specify in footnote).

#### 0103

## anmU General wind observing practice.

Code	Description
1	Anemometer, true wind computed.
2	Anemometer, true wind manual.
3	Visual estimates (sea state).
4	Visual estimate (open sea), anemometer (near port).

#### 0104

## anSC Side indicator of the (fixed) anemometer from the centre line, if appropriate.

Code	Description
Р	Port
S	Starboard

## atm General observing practice.

Code	Description
1	Fully automated.
2	Always supplemented by manual input.
3	Occasionally supplemented by manual input.
4	Unknown.
5	Fully manual (no automation).

## 0201

## barg Barograph type, or method of determining pressure tendency.

Code	Description
OS	Open Scale barograph.
OS1	Open Scale barograph with 1 day clock.
OS2	Open Scale barograph with 2 day clock.
OS3	Open Scale barograph with 3 day clock.
OS4	Open Scale barograph with 4 day clock.
OS5	Open Scale barograph with 5 day clock.
OS6	Open Scale barograph with 6 day clock.
OS7	Open Scale barograph with 7 day clock.
OS8	Open Scale barograph with 8 day clock.
OS9	Open Scale barograph with 9 day clock.
SS	Small Scale barograph.
ET	Tendency obtained from an electronic digital barometer.
ОТ	Other (specify in footnote).

#### 0202

## barm Barometer type.

Code	Description
AN	Aneroid barometer (issued by the PMO or a NMS).
DA	Digital aneroid barometer (aka Precision Aneroid Barometer).
ELE	Electronic digital barometer (consisting of one or more pressure transducers).
MER	Mercury barometer.
SAN	Ship's aneroid barometer.
OT	Other (specify in footnote).

## 0203

#### blc Baseline check of the automatic weather station.

Code	Description
1	Yes - periodic baseline check to ensure system operating satisfactorily.
2	No.
3	No automation.

brmL Location of the barometer.

Code	Description
CR	Chart room.
PW	Pressurised wheelhouse (closed and not vented to the outside).
WH	Wheelhouse, not pressurised (vented to the outside).
ОТ	Other (specify in footnote).

## 0601

# fieldabbrev Code name of the field to which the footnote applies.

Code	Description
vssl	Vessel type.
rte	Route
vsslM	Type of meteorological reporting ship.
atm	General observing practice.
freq	Routine observing frequency.
anmU	General wind observing practice.
blc	Baseline check of the automatic weather station.
barm	Barometer type.
brmL	Location of the barometer.
thrm	Dry bulb thermometer type.
thmE	Exposure of the dry bulb thermometer.
thmL	Location of the dry bulb thermometer and hgyrometer
tscale	General temperature reporting practice.
hygr	Hygrometer type.
hgrE	Exposure of the hygrometer.
sstM	Method of obtaining the sea surface temperature.
barg	Barograph type, or method of determining pressure tendency.
anmT	Anemometer type.
anmL	Location of the anemometer.
othl	Other meteorological/oceanographic instrument.

#### 0602

## freq Routine observing frequency.

Code	Description
OPD	One observation per day (24 hour intervals).
TPD	Two observations per day (12 hour intervals).
FPD	Four observations per day (6 hour intervals).
EPD	Eight observations per day (3 hour intervals).
HLY	Hourly observations.
IRR	Irregular observations.

hgrE Exposure of the hygrometer.
thmE Exposure of the dry bulb thermometer.

Code	Description
Α	Aspirated (Assmann type).
S	Screen (non ventilated, i.e. natural ventilation).
VS	Screen (ventilated, i.e. assisted ventilation).
SN	Ship's screen (property of the ship).
SG	Ship's sling.
SL	Sling.
US	Unscreened.
W	Whirling psychrometer.

## 0802

hygr Hygrometer type.

Code	Description
С	Capacitance.
CM	Chilled mirror.
E	Electric.
Н	Hair hygrometer.
HG	Hygristor.
Р	Psychrometer.
Т	Torsion.
OT	Other (specify in footnote).

othl Other meteorological/oceanographic instrument.

Code	Description
BAT	Bathythermometer.
BT	Bathythermograph (towed).
FLM	Fluorometer.
LWR	Long wave radiation.
MAX	Maximum thermometer.
MIN	Minimum thermometer.
NTE	Nitrate sensor.
NTT	Nutrient sensor.
Р	Pilot balloon equipment.
CO2	pCO2 system.
PLK	Plankton recorder.
PRS	Photosynthetic radiation sensor.
PYG	Pyrogeometer.
R	Radiosonde equipment.
RG	Rain gauge.
RSD	Radar storm and meteorological phenomena detection.
RT	Reversing thermometer.
SKY	Sky camera.
SLM	Solarimeter.
ST	Sea thermograph.
SWR	Short wave radiation.
TSD	Temperature/salinity/depth probe.
TUR	Turbidity sensor.
W	Radiowind or radarwind equipment.
WR	Wave Recorder
XBT	Expendable bathythermograph.
OT	Other (specify in footnote).

(Source: ISO 3166-1, 2 June 2008)

rcnty Recruiting country. reg Country of registration.

Code	Description
AF	AFGHANISTAN
AX	ÅLAND ISLANDS
AL	ALBANIA
DZ	ALGERIA
AS	AMERICAN SAMOA
AD	ANDORRA
AO	ANGOLA
Al	ANGUILLA
AQ	ANTARCTICA
AG	ANTIGUA AND BARBUDA
AR	ARGENTINA
AM	ARMENIA
AW	ARUBA
AU	AUSTRALIA
AT	AUSTRIA
AZ	AZERBAIJAN
BS	BAHAMAS
BH	BAHRAIN
BD	BANGLADESH
BB	BARBADOS
BY	BELARUS
BE	BELGIUM
BZ	BELIZE
BJ	BENIN
BM	BERMUDA
BT	BHUTAN
ВО	BOLIVIA
BA	BOSNIA AND HERZEGOVINA
BW	BOTSWANA
BV	BOUVET ISLAND
BR	BRAZIL
IO	BRITISH INDIAN OCEAN TERRITORY
BN	BRUNEI DARUSSALAM
BG	BULGARIA
BF	BURKINA FASO
BI	BURUNDI
KH	CAMEROON
CM	CAMEROON
CA CV	CANADA CAPE VERDE
KY	CAYMAN ISLANDS
CF	CENTRAL AFRICAN REPUBLIC
TD	CHAD
CL	CHILE
CN	CHINA
CX	CHRISTMAS ISLAND
CC	COCOS (KEELING) ISLANDS
CO	COLOMBIA COLOMBIA
	OCLOWIDIA

171.4	00110700
KM	COMOROS
CG	CONGO
CD	CONGO, THE DEMOCRATIC REPUBLIC OF THE
CK	COOK ISLANDS
CR	COSTA RICA
CI	CÖTE D'IVOIRE
HR	CROATIA
CU	CUBA
CY	CYPRUS
CZ	CZECH REPUBLIC
DK	DENMARK
DJ	DJIBOUTI
DM	DOMINICA
DO	DOMINICAN REPUBLIC
EC	ECUADOR
EG	EGYPT
SV	EL SALVADOR
GQ	EQUATORIAL GUINEA
ER	ERITREA
EE	ESTONIA
ET	ETHIOPIA
FK	FALKLAND ISLANDS (MALVINAS)
FO	FAROE ISLANDS
FJ	FIJI
FI	FINLAND
FR	FRANCE
GF	FRENCH GUIANA
PF	FRENCH POLYNESIA
TF	FRENCH SOUTHERN TERRITORIES
GA	GABON
GM	GAMBIA
GE	GEORGIA
DE	GERMANY
GH	GHANA
GI	GIBRALTAR
GR	GREECE
GL	GREENLAND
GD	GRENADA
GP	GUADELOUPE
GU	GUAM
GT	GUATEMALA
GG	GUERNSEY
GN	GUINEA
GW	GUINEA-BISSAU
GY	GUYANA
HT	HAITI
НМ	HEARD ISLAND AND MCDONALD ISLANDS
VA	HOLY SEE (VATICAN CITY STATE)
HN	HONDURAS
HK	HONG KONG
HU	HUNGARY
IS	ICELAND
IN	INDIA
ID	INDONESIA
IR	IRAN, ISLAMIC REPUBLIC OF

IQ	IRAQ
IE	IRELAND
IM	ISLE OF MAN
IL	ISRAEL
IT	ITALY
JM	JAMAICA
JP	JAPAN
JE	JERSEY
JO	JORDAN
KZ	KAZAKHSTAN
KE	KENYA
KI	KIRIBATI
KP	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
KR	KOREA, REPUBLIC OF
KW	KUWAIT
KG	KYRGYZSTAN
LA	LAO PEOPLE'S DEMOCRATIC REPUBLIC
LV	LATVIA
LB	LEBANON
LS	LESOTHO
LR	LIBERIA
LY	LIBYAN ARAB JAMAHIRIYA
LI	LIECHTENSTEIN
LT	LITHUANIA
LU	LUXEMBOURG
MO	MACAO
MK	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
MG	MADAGASCAR
MW	MALAWI
MY	MALAYSIA
MV	MALDIVES
ML	MALI
MT	MALTA
MH	MARSHALL ISLANDS
MQ	MARTINIQUE
MR	MAURITANIA
MU	MAURITIUS
YT	MAYOTTE
MX	MEXICO
FM	MICRONESIA, FEDERATED STATES OF
MD	MOLDOVA, REPUBLIC OF
MC	MONACO
MN	MONGOLIA
ME	MONTENEGRO
MS	MONTSERRAT
MA	MOROCCO
MZ	MOZAMBIQUE
MM	MYANMAR
NA	NAMIBIA
NR	NAURU
NP	NEPAL
NL	NETHERLANDS
AN	NETHERLANDS ANTILLES
NC	NEW CALEDONIA
NZ	NEW ZEALAND

NI	NICARAGUA
NE	NIGER
NG	NIGERIA
NU	NIUE
NF	NORFOLK ISLAND
MP	NORTHERN MARIANA ISLANDS
NO	NORWAY
OM	OMAN
PK	PAKISTAN
PW	PALAU
PS	PALESTINIAN TERRITORY, OCCUPIED
PA	PANAMA
PG	PAPUA NEW GUINEA
PY	PARAGUAY
PE	PERU
PH	PHILIPPINES
PN	PITCAIRN
PL 	POLAND
PT	PORTUGAL
PR	PUERTO RICO
QA	QATAR
RE	REUNION
RO	ROMANIA
RU	RUSSIAN FEDERATION
RW	RWANDA
BL	SAINT BARTHÉLEMY
SH	SAINT HELENA
KN	SAINT KITTS AND NEVIS
LC	SAINT LUCIA
MF	SAINT MARTIN
PM	SAINT PIERRE AND MIQUELON
VC	SAINT VINCENT AND THE GRENADINES
WS	SAMOA
SM	SAN MARINO
ST	SAO TOME AND PRINCIPE
SA	SAUDI ARABIA
SN	SENEGAL
RS	SERBIA
SC	SEYCHELLES
SL	SIERRA LEONE
SG	SINGAPORE
SK	SLOVAKIA
SI	SLOVENIA
SB	SOLOMON ISLANDS
SO	SOMALIA
ZA	SOUTH AFRICA
GS	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
ES	SPAIN
LK	SRI LANKA
SD	SUDAN
SR	SURINAME CYALBARD AND JANIMAYEN
SJ	SVALBARD AND JAN MAYEN
SZ	SWAZILAND
SE	SWEDEN
CH	SWITZERLAND

SY	SYRIAN ARAB REPUBLIC
TW	TAIWAN, PROVINCE OF CHINA
TJ	TAJIKISTAN
TZ	TANZANIA, UNITED REPUBLIC OF
TH	THAILAND
TL	TIMOR-LESTE
TG	TOGO
TK	TOKELAU
TO	TONGA
TT	TRINIDAD AND TOBAGO
TN	TUNISIA
TR	TURKEY
TM	TURKMENISTAN
TC	TURKS AND CAICOS ISLANDS
TV	TUVALU
UG	UGANDA
UA	UKRAINE
AE	UNITED ARAB EMIRATES
GB	UNITED KINGDOM
US	UNITED STATES
UM	UNITED STATES MINOR OUTLYING ISLANDS
UY	URUGUAY
UZ	UZBEKISTAN
VU	VANUATU
VE	VENEZUELA
VN	VIET NAM
VG	VIRGIN ISLANDS, BRITISH
VI	VIRGIN ISLANDS, U.S.
WF	WALLIS AND FUTUNA
EH	WESTERN SAHARA
YE	YEMEN
ZM	ZAMBIA

Additions Aland Island (AX)

Guernsey (GG)

Heard Island & McDonald Islands (HM)

Vatican See (VA) Isle of Man (IM) Jersey (JE) Montenegro (ME) Saint Barthélemy (BL) Saint Martin (MF) Sebia (RS)

Timor-Leste (TL), replaces East Timor (TP)

**Deletions** East Timor (TP)

Yugoslavia (YU)

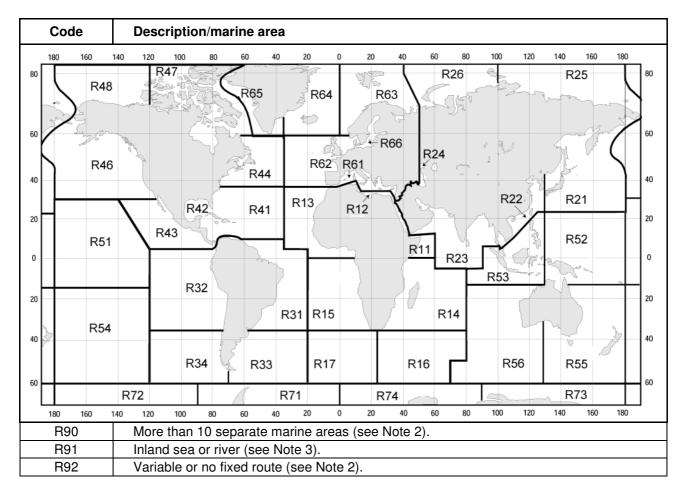
New Spelling Cöte D'ivoire (CI), replaces Cote D'Ivoire (CI)

Kazakhstan (KZ), replaces Kazakstan (KZ)

Macao (MO), replaces Macau (MO) Reunion (RE), replaces Réunion (RE)

1802

#### rte Route



Note 1	A maximum of 10 marine areas visited by the ship can be reported individually, otherwise use R90.
Note 2	For R90 or R92, specify the most visited marine area(s) by the ship in the footnote if this can be determined, e.g. "most visited - R62, R41".
Note 3	For R91, specify the location in the footnote, e.g. "Black Sea", "Mackenzie River".
Note 4	Use footnotes as necessary to provide more detail, e.g. "coastal service", "fixed location".
Note 5	If using the semi-colon delimited metadata exchange format, include the relevant marine area in the footnote if more than one <b>rte</b> is defined, e.g. "R73 – Austral Summer only", otherwise format the footnote as shown in the examples for Notes 2 – 4

1901

#### sstM Method of obtaining the sea surface temperature.

Code	Description
BTT	Bait tanks thermometer.
BU	Bucket thermometer.
С	Condensor Intake on Steam Ships, or Engine Cooling System Inlet on Motor Ships.
HC	Hull contact sensor.
HT	"Through Hull" sensor.
RAD	Radiation thermometer.
TT	Trailing thermistor.
ОТ	Other (specify in footnote).

## thmL Location of the dry bulb thermometer and hgyrometer

Code	Description
1	Bridge wing port.
2	Bridge wing starboard.
3	Bridge wing both sides.
4	Bridge wing windward side.
5	Wheelhouse top port.
6	Wheelhouse top starboard.
7	Wheelhouse top both.
8	Wheelhouse top center.
9	Wheelhouse top windward side.
10	Mainmast.
11	Foremast.
12	Mast on wheelhouse top.
13	Main deck port side.
14	Main deck starboard side.
15	Main deck both sides.
OT	Other (specify in footnote).

#### 2002

## thrm Dry bulb thermometer type.

Code	Description
ALC	Alcohol thermometer.
MER	Dry bulb mercury thermometer.
ELE	Electric (resistance) thermometer.

## 2003

## tscale General temperature reporting practice.

Code	Description
1	Centigrade to tenths.
2	Half degrees centigrade.
3	Whole degree centigrade.
4	Whole degree fahrenheit.
5	Fahrenheit to tenths.
6	Dry bulb centigrade, wet bulb fahrenheit.
7	Dry bulb fahrenheit, wet bulb centigrade.
ОТ	Other combinations or scale (specify in footnote).

## notes

OT Replaces former code 8

## vssl Vessel type.

Code	Description		
BA	Barges, including crane barges and tank barges.		
ВС	Bulk Carriers, including Ore/Bulk/Oil (OBO) carriers and Ore/Oil carriers.		
CA	Cable ships.		
CG	Coastguard cutters, patrol ships and launches.		
CS	Container ships, including open and closed container ships and refrigerated container ships.		
DR	Dredgers including bucket, hopper, grab and suction dredgers.		
FE	Passenger ferries (carrying passengers only).		
FP	Floating Production and Storage Units.		
FV	Fishing Vessels including purse seiners, long liners etc., but excluding trawlers.		
GC	General Cargo ships with one or more holds.		
GT	Liquefied gas carriers/tankers including LNG and LPG carriers.		
IC	Icebreaking vessels (dedicated vessel). If the vessel fits in another category and is ice strengthened then include 'ice strengthened' as a footnote.		
LC	Livestock Carrier (dedicated ship for the carriage of livestock).		
LT	Liquid tankers including oil product tankers, chemical tankers and crude oil tankers (including VLCC's and ULCC's).		
LV	Light vessels.		
MI	Mobile installations, including mobile offshore drill ships, jack-up rigs, semi-submersibles.		
MS	Military ships.		
OW	Ocean Weather Ships (dedicated weather ship).		
PI	Pipe Layers.		
PS	Passenger ships and Cruise liners.		
RF	Ro Ro ferries (carrying passengers and laden vehicles).		
RR	Ro Ro cargo ships for carriage of road and/or rail vehicles and cargo, including containerised cargo.		
RS	Refrigerated cargo ships including banana ships.		
RV	Research Vessels, including oceanographic, meteorological and hydrographic research ships and seismographic research ships.		
SA	Large sailing vessels, including sail training vessels.		
SV	Support vessels including offshore support vessels, offshore supply vessels, stand-by vessels, pipe carriers, anchor handling vessels, buoy tenders (including coastguard vessels engaged solely on buoy tending duties), diving support vessels, etc.		
TR	Trawler fishing vessels.		
TU	Tugs, including fire-fighting tugs, salvage tugs, pusher tugs, pilot vessels, tenders etc.		
VC	Vehicle Carriers: dedicated multi deck ships for the carriage of new unladen road vehicles.		
YA	Yachts and pleasure craft.		
ОТ	Other (specify in footnote).		

<b>notes</b> FV or TR	To be used instead of the former code <b>IF</b> which is deleted.	
CS	To be used for both open and closed container ships with similar profiles. The former code <b>CC</b> (Closed Container) is deleted.	
PS	Replaces former codes <b>PV</b> (Passenger Vessel) and <b>PL</b> (Passenger Liner) which are both deleted. This avoids possible confusion about the type of vessel in service.	
RS	Replaces former code <b>BS</b> (Banana Ships) which is deleted. This represented only one type of refrigerated ship.	
BA, FE, TR, YA	Replaces former codes <b>B</b> , <b>F</b> , <b>T</b> and <b>Y</b> respectively which are deleted.	

## vssIM Type of meteorological reporting ship.

Code	Description
10	Selected.
40	Supplementary.
70	Auxiliary.
OT	Other (specify in footnote).

notes	
10	Replaces former codes 20, 21 and 22 which were vessel type specific.
40	Replaces former codes 60 and 61 which were vessel type specific.
70	Replaces former codes 80 and 81 which were vessel type specific.
OT	Replaces former code 99

Codes 88-90, formerly used by the USA, are deleted in favour of the generic codes 10, 40 and 70.

#### 2203

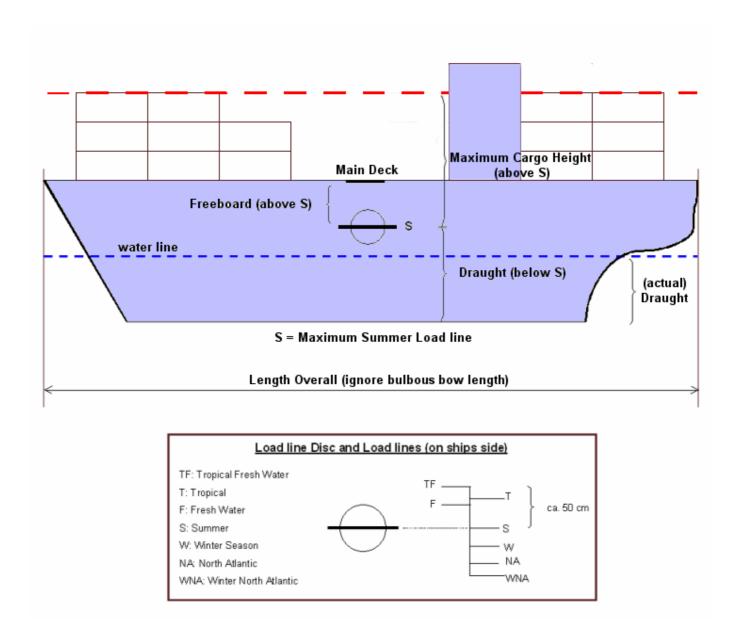
## vssIP Vessel digital image.

Code	Description	
AV	Available in separate digital file (see Note 2).	
NA	Not available.	
PA	Photo available but not yet scanned.	

Note 1	See Annex 6 for the recommended VOS and VOSClim minimum suite of digital images and drawings		
Note 2	Digital image file-naming convention:		
	"00" & "IMO Number" & "image_description" & "date", where the date format shall be YYYYMMDD, e.g. 007417868aerial starboard profile from stern20030717.jpg		

#### **Metadata Format Version 03**

# **Ship's Layout Diagram**



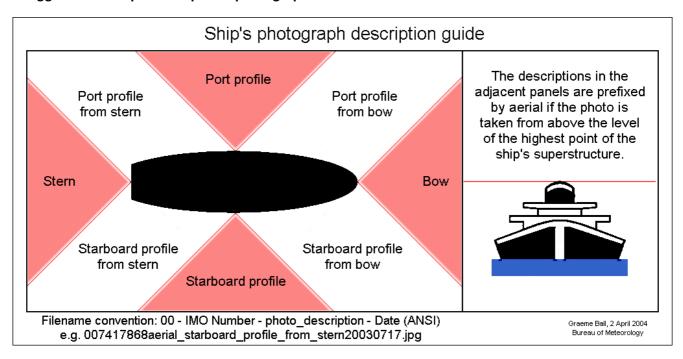
#### **Metadata Format Version 03**

# **Vessel Digital Images (Code Table 2203)**

#### 1. Recommended minimum suite of digital images/photographs

Description	vos	VOSClim
Exposure of screen(s) showing the location of any adjacent obstructions, over-hangings, etc	Yes	Yes
Exposure of anemometer (if applicable)	Yes	Yes
Exposure of other meteorological instruments	Optional	Yes
Ship's profile – quayside or at sea if possible	Yes	Yes
Deck cargo stowage	Optional	Yes

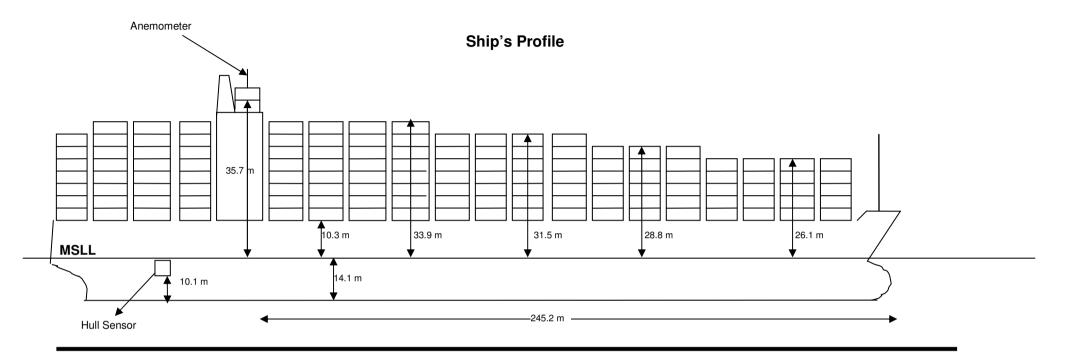
#### 2. Suggested descriptions of profile photographs

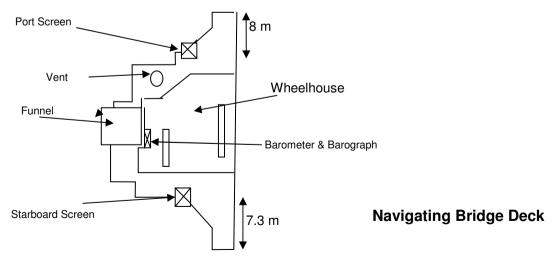


#### 3. Suggested drawings/sketches

Description	vos	VOSClim
Ship's general profile – basic sketch showing instrument location and dimensions	Optional	Yes
Navigational Bridge Deck/wheelhouse plan – basic sketch showing instrument location  Optional		Yes
General Arrangement Plan or drawing	Optional	Optional

## 4. Sample sketches





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# **Metadata Format Version 03**

# **Summary of changes from version 2**

Field	Name	Comment
anDC	Distance of the fixed anemometer from the centre line	No longer includes the indicator for which side of the centre line the anemometer is located.
anmT	Type of Anemometer	New field and accompanying Code Table
anSC	Side indicator of the anemometer from the centre line	New field and accompanying CodeTable. This indicator was previously reported appended to the field anDC.
awsM	Make and model of automatic weather station	New field
awsP	Name and version of AWS processing software	New field
awsC	Name and version of AWS console software	New field
barg	Type of Barograph	New Code Table entry and revised field description
barm	Type of Barometer	New and revised Code Table entries
brmL	Barometer Location	New Code Table entry
freq	Routine frequency of observations	New field and associated Code Table
hgrE	Hygrometer Exposure	Revised Code Table entry descriptions
logE	Name and version of electronic logbook software	New field.
othl	Other Instruments	New Code Table entries
reg	Country of Registration	New field with accompanying Code Table. Previously reported in parenthesis with ship name if the country of registration was different to the country of recruitment.
rte	Routes	New global route definitions to replace separate national routes.
thmE	Thermometer Exposure	Revised Code Table entry descriptions
tscale	Temperature Scale	Revised Code Table entry

vclmR	Last VOSClim recruitment date in the current period of VOS participation	New field
vclmD	Last VOSClim de-recruitment date in the current period of VOS participation	New field
ver	Version of WMO-No. 47 format	New field. This version is 03.
vosD	De-recruitment date of the last VOS participation	New field
vosR	Recruitment date of the current VOS participation	New field
vssl	Type of Vessel	New and revised Code Table entries.
vsslM	Type of Meteorological Reporting Vessel	Revised Code Table entries.
vssIP	Vessel Digital Image	Revised Code Table entry

	Vessel Dimensions		
lenvssID	Length overall of the ship, ignoring bulbous bow	More precise description	
brdvssID	Moulded breadth. The greatest breadth amidships	More precise description	
frbvssID	Freeboard. The average height of the upper deck above the maximum Summer load line	More precise description	
drfvssID	Draught. The average depth of the keel below the maximum Summer load line	More precise description	

Redefined Field Definitions		
Field	Version 2 Definition	Version 3 Definition
chtvssID	Average cargo height	Maximum cargo height.
prSt	Teleprinter and Satellite	Satellite system for transmitting observations.

Other Changes		
phGr	Telephony and Telegraphy	Field deleted.
	Footnotes	Mandatory if element is reported using code figure <b>OT</b> . Optional for any other element reported from a Code Table. The semi-colon delimited file is limited to 10 footnotes. There is no restriction on the number of footnotes reported in the XML file.