

WORLD METEOROLOGICAL ORGANIZATION

INTERGOVERNMENTAL OCEANOGRAPHIC
COMMISSION (OF UNESCO)

JOINT WMO/IOC TECHNICAL COMMISSION FOR
OCEANOGRAPHY AND MARINE METEOROLOGY (JCOMM)
EXPERT TEAM ON MARINE CLIMATOLOGY

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FIRST SESSION

ITEM 5.1

GDYNIA, POLAND, 7 TO 10 JULY 2004

Original: ENGLISH

CURRENT STATUS OF WMO-No. 47

(Submitted by the Secretariat)

Summary and Purpose of Document

A database of WMO-No. 47 has been developed in the WMO Secretariat. This document presents the status of the database.

ACTION PROPOSED

The Expert Team on Marine Climatology is invited to note and comment on the information provided and take it into account when discussing related agenda items.

Appendix: Guide to record layout of data files for WMO-No. 47

DISCUSSION

Introduction

1. A WMO ship catalogue, *the International List of Selected, Supplementary and Auxiliary Ships* (WMO-No. 47) has been published since 1955. The publication provides ship characteristics and instrumentation details (e.g., ship name, call sign, barometer/thermometer types, method of obtaining sea surface temperature; and, in later editions, height of anemometer and additional details) on an approximately annual basis from maritime countries participating in the WMO Voluntary Observing Ships (VOS) scheme. The format of the ship catalogue has been changed occasionally based on recommendations at sessions of the Commission for Marine Meteorology (currently JCOMM). Until 1998, WMO-No. 47 has been published as a hard copy. An electronic quarterly data file was made available on the WMO web site and was sent to VOS operators from 1997 to the first quarter of 1999.

Procedure of format change

2. CMM-XI (Lisbon, April 1993) agreed with the recommendation that the International List of Selected, Supplementary and Auxiliary Ships (WMO-No. 47) should be modified to include additional information such as anemometer exposure, ship size and type, etc. Most of these recommendations stemmed from the VOS Special Observing Project North Atlantic (VOSP-NA), the predecessor to the VOSclim project.

3. CMM-XII (Havana, Cuba, 10-20 March 1997) requested the Subgroup to review and recommend on, as necessary, the format and contents of WMO -No. 47. The Subgroup on Marine Climatology prepared the format expanding WMO-No. 47. At VOSclim-II (Asheville, 30 October - 1 November 2000), this revised format was reviewed and agreed as the appropriate format. JCOMM-I (Akureyri, June 2001) noted the completion of this work with appreciation, and stressed that the requirements for surface meteorological and oceanographic observational data from VOS were ongoing and expanding, including associated metadata for operational monitoring of data quality and for global climate studies. In July 2002, WMO Members were formally requested to submit their ship metadata to the WMO Secretariat in accordance with the new format.

Availability of data

4. The WMO Secretariat has developed and now implemented an electronic database containing the information in WMO-No. 47, based on this revised format. The periodical updating of the country files are done and the latest quarterly file (31 March 2004) of ships metadata of all VOS in the new format is now available on our web site: <http://www.wmo.ch/web/www/ois/pub47/pub47-home.htm>. The current data format is available on the web site as "Guide to record layout of data files" (Appendix).

5. The backlog of quarterly files (31 March 1999 to 31 March 2004) of ships metadata of all VOS is also available on the WMO FTP server to both operational and research users. To read the files (pub47ships990331 to pub47ships040331) open FTP Access with Internet Explorer site: <ftp://www.wmo.ch/wmo-ddbs>

Action proposed

The Expert Team on Marine Climatology is invited to note and comment on the information provided and take it into account when discussing related agenda items.

WORLD METEOROLOGICAL ORGANIZATION

WMO No. 47

*International List of Selected,
Supplementary and Auxiliary Ships
participating in the WMO
Voluntary Observing Ships (VOS) scheme*

**GUIDE TO
RECORD LAYOUT
OF DATA FILES**

2004-a (1st quarter) EDITION

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**Record Layout of
File No. 1:**

Master File of VOS Ships**1.1. SHIPS DATA: Data contained in each record**

All the data for each ship should be contained in one record. Each record is composed of all 109 fields, even if some fields are blank because there is no data for those fields. Each field (including blank fields) ends with a semi-colon (" ; "). Every field is identified by a code name, as follows:

name;call; IMOn; rcnty; vssl; vsslP; lenvssID; brdvssID; frbvssID; drfvssID; chtvssID; brdg; vsslM; Atm; blc; rte; rte; rte; rte; rte; rte; rte; rte; barm; barm; bMS; bMS; brmH; brmH; brmL; brmL; brmU; brmU; brmC; brmC; thrm; thrm; thMS; thMS; thmE; thmE; thmL; thmL; thmH; thmH; tscale; tscale; hygr; hygr; hgrE; hgrE; sstM; sstM; sstD; sstD; barg; barg; anHL; anHL; anHD; anHD; anmL;anmL;anDB; anDB; anDC; anDC; anml; anml; anmU; anmC; anmC; wwH; othl; othl; othl; othl; othl; othl; phGr; phGr; prSt; prSt; prSt; prSt; prSt; chgd; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; fieldAbrev; footID; footID; footID; footID; footID; footID; footID; footID; footID; footID;

1.2. SHIPS DATA: Sample record

The code names and abbreviations used in each field are explained in the Code Tables. Each record (i.e. data for one ship) appears like the following sample record:

GlasgowMaersk;MZGK7;9193420;GB;CC;AV;292.0;32.3;8.2;13.5;14.7;218.7;21;5;3;14;4;;;;;;DA;;Negrett
i & Zambra Precision Aneroid Mk 2;;28.7;;WH;;hPa;;09081999;;MER;;Zeal 2/C – BS
692;;S;;3;;28.2;;1;;P;;S;;BU;;;OS7;;;;;;3;;29.5;OT;;;;;T;;C;I;;;12092001;othl;;;;;;Toshiba notebook
computer with TurboWin Software version 2.12;;;;;;

1.3. SHIPS DATA: Order and contents of data fields

Order/ Field No.	Field Code name	Explanation
1	Name;	Ship name
2	call;	Ship call sign
3	IMOn;	IMO number assigned to the hull
4	rcnty;	Recruiting country (two letter abbreviation)
5	vssl;	Vessel type (general cargo = GC, liquid tanker = LT, etc.)
6	VsslP;	Vessel digital image (profile)
7	lenvssID;	Vessel dimension - length (in meters) - breadth - freeboard - draft (maximum summer loadline) - cargo height
8	brdvssID;	
9	frbvssID;	
10	drfvssID;	
11	chtvssID;	
12	brdg;	Distance of the bridge from the bow (to tenths of meters)
13	VsslM;	Type of VOS ship (Selected Ships = 10, Supplementary Ships = 40, etc.)
14	Atm;	Automation of observation
15	blc;	Baseline check
16	rte;	Ships route No. 1 Ships route No. 2 Ships route No. 3 Ships route No. 4 Ships route No. 5 Ships route No. 6 Ships route No. 7 Ships route No. 8 Ships route No. 9 Ships route No. 10
17	rte;	
18	rte;	
19	rte;	
20	rte;	
21	rte;	
22	rte;	
23	rte;	
24	rte;	
25	rte;	
26	barm;	Barometer No. 1 - type Barometer No. 2 - type
27	barm;	
28	bMS;	Model (manufacturer/series no.) No. 1 Model (manufacturer/series no.) No. 2
29	bMS;	
30	brmH;	Barometer No. 1 - height in meters to tenths from max load line Barometer No. 2 - height in meters to tenths from max load line
31	brmH;	
32	brmL;	Barometer No. 1 - location (e.g. wheelhouse, chart room, etc.) Barometer No. 2 - location
33	brmL;	
34	brmU;	Pressure Units No. 1 Pressure Units No. 2
35	brmU;	
36	brmC;	Barometer calibration date No. 1 Barometer calibration date No. 2
37	brmC;	
38	thrm;	Thermometer No. 1 - type Thermometer No. 2 - type
39	thrm;	
40	thMS;	Thermometer model (manufacturer/series no.) No. 1 Thermometer model (manufacturer/series no.) No. 2
41	thMS;	
42	thmE;	Thermometer No. 1 - conditions of exposure

Order/ Field No.	Field Code name	Explanation
43	thmE;	Thermometer No. 2 - conditions of exposure
44 45	thmL; thmL;	Thermometer No. 1 - location Thermometer No. 2 – location
46 47	thmH; thmH;	Thermometer No. 1 - height Thermometer No. 2 – height
48 49	tscale; tscale;	Thermometer No. 1 - scale Thermometer No. 2 – scale
50 51	hygr; hygr;	Hygrometer No. 1 - type Hygrometer No. 2 – type
52 53	hgrE; hgrE;	Hygrometer No. 1 - conditions of exposure Hygrometer No. 2 - conditions of exposure
54 55	sstM; sstM;	Sea surface temperature measurement - Method No. 1 Sea surface temperature measurement - Method No. 2
56 57	sstD; sstD;	SST - depth of method No. 1 (tenths of meters below max load line) SST - depth of method No. 2 (tenths of meters below max load line)
58 59	barg; barg;	Barograph No. 1 - type Barograph No. 2 – type
60 61	anHL; anHL;	Anemometer No. 1 - height (meters to tenths), measured from max load line Anemometer No. 2 - height (meters to tenths), measured from max load line
62 63	anHD; anHD;	Anemometer No. 1 - height (meters to tenths), height above deck on which it is installed Anemometer No. 2 - height (meters to tenths), height above deck on which it is installed
64 65	anmL; anmL;	Anemometer No. 1 - description of location Anemometer No. 2 - description of location
66 67	anDB; anDB;	Anemometer No. 1- distance from the bow Anemometer No. 2- distance from the bow
68 69	anDC; anDC;	Anemometer No. 1 - distance from center line (port/ starboard indicator) Anemometer No. 2 – distance from center line (port/ starboard indicator)
70 71	anml; anml;	Anemometer No. 1- Instrument type (manufacturer/ series no./ etc.) Anemometer No. 1- Instrument type (manufacturer/ series no./ etc.)
72	anmU;	Anemometer - general observing practice
73 74	anmC; anmC;	Anemometer No. 1 - calibration date Anemometer No. 2 - calibration date
75	wwH;	Visual wind/wave observational height
76 77 78 79 80 81	othl; othl; othl; othl; othl; othl;	Other meteorological instrument aboard - No. 1 - type Other meteorological instrument aboard - No. 2 - type Other meteorological instrument aboard - No. 3 - type Other meteorological instrument aboard - No. 4 - type Other meteorological instrument aboard - No. 5 - type Other meteorological instrument aboard - No. 6 - type
82 83	phGr; phGr;	Radio-telephony and telegraphy - No. 1 - type Radio-telephony and telegraphy - No. 2 - type
84 85 86 87	prSt; prSt; prSt; prSt;	Radio-telephony and satellite - No. 1 - type Radio-telephony and satellite - No. 2 - type Radio-telephony and satellite - No. 3 - type Radio-telephony and satellite - No. 4 - type

Order/ Field No.	Field Code name	Explanation
88	prSt;	Radio-telephony and satellite - No. 5 - type
89	chgd;	Change date (date information was updated on the ship by the PMO)
90	fieldAbrev;	Code name of field to which footnote No. 1 applies
91	fieldAbrev;	Code name of field to which footnote No. 2 applies
92	fieldAbrev;	Code name of field to which footnote No. 3 applies
93	fieldAbrev;	Code name of field to which footnote No. 4 applies
94	fieldAbrev;	Code name of field to which footnote No. 5 applies
95	fieldAbrev;	Code name of field to which footnote No. 6 applies
96	fieldAbrev;	Code name of field to which footnote No. 7 applies
97	fieldAbrev;	Code name of field to which footnote No. 8 applies
98	fieldAbrev;	Code name of field to which footnote No. 9 applies
99	fieldAbrev;	Code name of field to which footnote No. 10 applies
100	footID;	Footnote No. 1 - code number of text required
101	footID;	Footnote No. 2 - code number of text required
102	footID;	Footnote No. 3 - code number of text required
103	footID;	Footnote No. 4 - code number of text required
104	footID;	Footnote No. 5 - code number of text required
105	footID;	Footnote No. 6 - code number of text required
106	footID;	Footnote No. 7 - code number of text required
107	footID;	Footnote No. 8 - code number of text required
108	footID;	Footnote No. 9 - code number of text required
109	footID;	Footnote No. 10 - code number of text required

**Record Layout of
File No. 2:**

Master File of Ships' Routes

2.1. ROUTES DATA: Data contained in each record

Each recruiting country has defined its own set of routes. All these sets of routes are compiled in the 'Routes File'. Each record contains one route of a specific country. Each record is composed of 3 fields, each field ending with a semi-colon. Each field is identified by a code name, as follows:

rcntyCode;routeID;routeDef;

2.2. ROUTES DATA: Sample record

Below are two sample records which show how the information about ships' routes appears in the "Routes" data file. This example uses the records for two of United Kingdom of Great Britain and Northern Ireland's routes - Nos. 14 and 4 - which are shown in the previous sample record from File No. 1 - "VOS Ships" data file (see paragraph 1.2 above).

GB;14;NORTH ATLANTIC TO PORTS ON EAST COAST OF NORTH AMERICA;
GB;4;FAR EAST (INC CHINA, MALAYA, PAKISTAN, JAPAN) VIA CAPE OR PANAMA;

2.3. ROUTES DATA: Order and contents of data fields

The contents of the data fields is explained in the following table. The abbreviations used in the "Recruiting country" field are explained in the Code Tables.

ROUTES DATA: Order and contents of data fields

Type of data	Field No.	Field code name	Explanation	See Code Table No.:
Recruiting country identity data	1	Rcnty;	Recruiting country (two-letter abbreviation)	1
Routes data	2	routeID;	Route identification number, according to the set of routes defined by each recruiting country (route numbers are defined differently for each country)	-
	3	routeDef;	Description of the route (text corresponding to the route identification number, as defined specifically for that particular recruiting country)	(listed in a separate table for each country, at the beginning of that country's entry)