

March 26-27, 2007  
ETMC-II, Geneva

## 4.2 History of Marine and Oceanographic Codes

# Introduction

- ◆ The CMM SGMC and ETMC has placed much effort into verifying the availability of documentation relating to the history of marine codes and formats.
- ◆ Because this documentation would be extremely valuable to the correct interpretation of observational data contained in the archives, which are clearly sensitive to the codes and formats used for their exchange.
- ◆ By ETMC-I, July 2004, results of the study on the history of codes (the current version is FM13 SHIP), formats (IMMPC/IMMT) and MQCS change had been made available on a website with references to relevant WMO documents.

[http://goos.kishou.go.jp/ws/JCPMM/ETMC/code\\_task/](http://goos.kishou.go.jp/ws/JCPMM/ETMC/code_task/)

History of SHIP CODE/IMMT/MQCS - Microsoft Internet Explorer

アドレス http://goos.kishou.go.jp/ws/ETMC/code\_task/

### HISTORY OF THE MARINE SHIP CODE

This web site was developed to show the result of one of the JCOMM ETMC task information on the history of marine SHIP code, IMMPC/IMMT format and MQCS marine climate research.

- [History of SHIP code](#)
- [History of IMMPC/IMMT](#)
- [History of Minimum Quality Control Standard \(MQCS\)](#)

• Related documents: final reports of sessions of CMM and CSM/CBS (under development)

History of IMMPC/IMMT - Microsoft Internet Explorer

アドレス http://goos.kishou.go.jp/ws/ETMC/code\_task/history/IMMT.html

### History of IMMPC/IMMT

Description of each change with resolution and recommendation

Date in effect	Description of change	Resolution	Recommendation
1 Jan 2003	<b>IMMT-2 is introduced (modifications to IMMT-1 format)</b> - To incorporate new data elements required for the VOSclim Project	<a href="#">Res. 7 EC-LIV (June 2002)</a>	<a href="#">Rec. 8 JCOMM-I (June 2001)</a>
	<b>Introduction of ISO Alpha-2 country code into IMMT format</b> - Alpha-2 country code be used as the country codes in the format	<a href="#">Res. 8 EC-XLIX (June 1997)</a>	<a href="#">Rec. 8 CMM-XII (Mar. 1997)</a>
	<b>IMMT-1 is introduced (modifications to IMMT format)</b> - IMMT-1 is introduced	<a href="#">Res. 10 EC-XLV (June 1993)</a>	<a href="#">Rec. 13 CMM-XI (April 1993)</a> <a href="#">Annex to Rec. 13</a>
	<b>Introduction to IMMPC and IMMT format</b> - Introduction of weather data indicator ix to IMMPC and IMMT	<a href="#">Res. 8 EC-XXXVII (June 1985)</a>	<a href="#">Rec. 5 CMM-IX (Oct. 1984)</a>
	<b>Introduction of the IMMPC and introduction of the IMMT format</b> - Introduction of IMMPC in accordance with FM 13-VII SHIP Code and introduction of IMMT	<a href="#">Res. 9 EC-XXXIV (June 1982)</a>	<a href="#">Rec. 8 CMM-VIII (Sept. 1981)</a>
	<b>Modifications to IMMPC</b> - Wind speed, height of cloud, etc. are modified	<a href="#">Res. 14 EC-XVII (May 1965)</a>	<a href="#">Rec. 28 CMM-IV (Nov. 1964)</a>
	<b>Modifications to technical regulations, etc.</b>	<a href="#">Res. 18 and 20 EC-XIII (May 1961)</a> <a href="#">Annex to Res. 20</a>	<a href="#">Rec. 23 CMM-III (Aug. 1960)</a> <a href="#">Annex to Rec. 23</a>
	<b>Introduction of numbers indicating the country of origin</b> - Introduction of numbers indicating the country of origin of changing IMMPC	<a href="#">Res. 18 EC-XIII (May 1961)</a>	<a href="#">Rec. 24 and 25 CMM-III (Aug. 1960)</a>
	<b>Modifications to technical regulation use of international</b>		

http://goos.kishou.go.jp/ws/ETMC/code\_task/cmm/CM03Rec23A.pdf - Microsoft Internet Explorer

アドレス http://goos.kishou.go.jp/ws/ETMC/code\_task/cmm/CM03Rec23A.pdf

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### ANNEX IX

Annex to Recommendation 23 (CMM-III)

#### PART A

LAY-OUT FOR AN INTERNATIONAL MARITIME METEOROLOGICAL PUNCH-CARD

Column	Element	Punching procedures
1	Temperature indicator	1 = Celsius, 2 = Fahrenheit
2-3	Year GMT	Last 2 digits
4-5	Month GMT	01-12 January to December
6-7	Day GMT	01-31
8	Octant of the Globe, Q	WMO Code 3300
9-11	Latitude, L <sub>a</sub> L <sub>a</sub> L <sub>a</sub>	Tenths of degrees, WMO specifications
12-14	Longitude, L <sub>o</sub> L <sub>o</sub> L <sub>o</sub>	Tenths of degrees, WMO specifications
15-16	Time of observation, OO	Nearest whole hour GMT, WMO specifications
17	Cloud amount, N	Oktas, WMO Code 2700
18-19	True wind direction, dd	Tens of degrees, WMO Code 0877. If the data for wind direction and speed have been measured an x overpunch is given in column 18
20-21	Wind speed, ff	Tens and units of knots; hundreds

# The work plan agreed at ETMC-I

- ◆ To finalize this task by
  1. Making all final reports of CMM and CSM/CBS session available on the website,
  2. Updating the website,
  3. Looking for past editions and supplements to the Manual on Codes and making them available on the website, and
  4. Expanding this task to other marine and oceanographic codes such as DRIBU/DRIFTER/BUOY, TRACKOB, BATHY, TESAC and WAVEOB.

# Progress made after ETMC-I (1.)

1. Making all final reports of CMM and CSM/CBS session available on the website
  - ◆ All final reports of CMM and CSM/CBS session were scanned (by JMA), converted into searchable PDF files (by NOAA CDMP).
  - ◆ NOAA CDMP archived all the PDF files
  - ◆ WMO, which holds the copyright on the reports, gave permission to put these electronic documents on websites, and the searchable PDF files were made available on the JMA website

*Suggestion: Consider the possibility to migrate the website contents, the electronic version of the final reports, in particular, to some website hosted by JCOMM or WMO.*

# Progress made after ETMC-I (2.)

## 2. Updating the website

- ◆ The website has been updated with the latest modifications to IMMT and MQCS.

## Progress made after ETMC-I (3.)

3. Looking for past editions and supplements to the Manual on Codes (WMO-No. 306) and making them available on the website
  - ◆ Efforts were made to create a list of past editions of and supplements to the Manual on Codes.
  - ◆ Progress has been made, but not yet completed.

*Next step suggested:*

- *locating copies of the seven previous editions from 1949-1974 and obtaining information on the supplements to the seven editions*
- *developing a plan to scan all the past editions and their supplements*
- *connection with RECLAIM project (Doc. 4.4)*

# Progress made after ETMC-I (4.)

4. Expanding this task to other marine and oceanographic codes such as DRIBU/DRIFTER/BUOY, TRACKOB, BATHY, TESAC and WAVEOB
  - ◆ Done. (appendix Doc. 4.2)
  - ◆ The result will be placed on the website soon.

*Suggestion: Producing a document on the evolution of the SHIP code which specifies exactly what change were made at each point.*

# Summary of the suggestions

*Suggestion: Consider the possibility to migrate the website contents, the electronic version of the final reports, in particular, to some website hosted by JCOMM or WMO.*

*Next step suggested:*

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*Suggestion: Producing a document on the evolution of the SHIP code which specifies exactly what change were made at each point.*