

Annex VI

Table 1
History of FM13 SHIP, FM21 SHIP, FM22 SHIP, FM23 SHRED, FM24 SHIP

with effect from	Description of change	Resolution (EC)	Recommendation (CBS, CSM)	
5 Nov. 1997	A new regulation 12.4.7.1.3 (notes on code) is added .	Res. 4 (EC-XLIX) - Report of the Eleventh Session of the Commission for Basic Systems (June 1997)	Rec. 7 (CBS-XI) - Amendments to the Manual on Codes, Volume I.1, alphanumeric codes and Volume I.2, binary codes and common tables (Oct. 1996)	
2 Nov. 1994	FM13-X SHIP is modified. (Amendments to FM 13-IX Ext, SHIP) -add wet-bulb temp, -systematically report present past weather, temp clouds and wave, -indicate type of sst measurement	Res. 4 (EC-XLV) - Report of the Tenth Session of the Commission for Basic Systems (June 1993)	Rec. 9 (CBS-X) - Amendments to FM13-IX Ext. SHIP (Sept. 1992)	Annex I.1
3 Nov. 1993	FM 13-X SHIP is made. (Amendments to FM 13-IX Ext, SHIP) -add net short wave and direct solar radiation	Res. 4 (EC-XLV) - Report of the Tenth Session of the Commission for Basic Systems (June 1993)	Rec. 8 (CBS-X) - Amendments to FM12-IX Ext. SYNOP and FM13-IX Ext.SHIP (Sept. 1992)	
1 Nov. 1991	FM13-IX Ext .SHIP is made (Modification to FM-13 IX SHIP) -pressure tendency algorithms -total amount of precipitation -actual time of observation	Res. 8 (EC-XLIII) - Report of the Extraordinary Session (1990) of the Commission for Basic Systems (May 1991)	Rec. 13 (CBS-(IX.)Ext.(90)) - Proposed modifications to regulations of FM12-IX SYNOP and FM13 IX SHIP and minor modification... Sept.1990	Annex I.2
1 Nov. 1989	FM13-IX SHIP is made (Modification to FM-13 VIII Ext. SHIP) -snow-depth data -precipitation data daily amount of evaporation, net-radiation ad duration of sunshine data	Res. 1 (EC-XL) - Report of the Ninth Session of the Commission for Basic Systems (June 1988)	Rec. 12 (CBS-IX) - Proposed modifications to regulations of FM12-VIII Ext. SYNOP and FM13-VIII Ext. SHIP to meet additional data requirements (Jan. 1988)	
1 Nov. 1987	FM13-VIII Ext. SHIP is made. (Amendments to FM 13-IX Ext, SHIP) -broaden the use of N=/	Res. 4 (EC-XXXVIII) - Report of the Extraordinary Session of the Commission for Basic Systems (June 1986)	Rec. 5 (CBS-(VIII.)Ext.(85)) - Amendments to FM12-VII SYNOP and FM13-VII SHIP (Oct.1985)	
1 Jan.1982	FM13-VII SHIP was introduced (deletion of FM 21-V SHIP, FM22-V SHIP, FM23-V SHRED, and FM 24-V SHIP)	Res. 5 (EC-XXXI) - Common code for reporting surface observations from different types of surface stations (May 1979)	Rec. 14 (CBS-VII) - Common code for reporting surface observations from different types of surface stations (Nov.1978)	Annex I.3
1 Jan 1979	Amendments to FM 21-V SHIP, FM22-V SHIP and FM23-V SHRED (FM-VI Ext was not adopted as code name) -revision of ice group	Res. 3 (EC-XXIX) - Report of the Extraordinary Session (1976) of the Commission for Basic Systems (May 1977)	Rec. 9 (CBS-Ext.(76)) - Amendments to marine codes (Nov.1976)	
1 Jan.1978	revision of the notes on code FM24-V	Res. 3 (EC-XXIX) - Report of the Extraordinary Session (1976) of the Commission for Basic Systems (May 1977)	Rec. 12 (CBS-Ext.(76)) - Revision of the noted on Codes FM11-V, FM14V, and FM24V (Nov. 1976)	
1 Jan. 1972	FM21.E,FM22.E,FM23E are made -introduction of MiMiMjMj	Res. 15 (EC-XXII) - Modifications to the International Meteorological Codes (Oct. 1970)	Rec. 8 (CSM-V) - Time and Type of Message Indicator Group (June 1970)	Annex I.4
1 Jan. 1972	FM24.E is introduced	Res. 15 (EC-XXII) - Modifications to the International Meteorological Codes (Oct. 1970)	Rec. 22 (CSM-V) - Code Form for Synoptic Surface Observations Rec. 23 (CSM-V) Code Form for Exchange of Synoptic Surface Observations Originating from Automatic Weather Stations (June 1970)	

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with effect from	Description of change	Resolution (EC)	Recommendation (CBS, CSM)	
1 Jan. 1968	FM21.D,FM22.D,FM23D are made -99LaLaLa QcLoLoLoLo are introduced	Res. 13 (EC-XVIII) - Modification of the International Meteorological Codes, Specifications and Descriptive terms and Instructions concerning Methods of Coding (May 1966)	Rec. 24 (CSM-IV) - Reporting of Ship's Position Rec. 25 (CSM-IV) - Identification of Ship Report and Position (Mar. 1966)	
1 Jan 1964	FM21.C,FM22.C,FM23C are made -2IsEsEsRs is introduced	Res. 34 (EC-XIV) - Modification of the International Meteorological Codes, Specifications and Descriptive terms and Instructions concerning Methods of Coding (May 1962)	Rec. 27 (CSM-III) - Coding Reports of Ice Accretion on Ships (Mar. 1962)	Annex I.5
1 Jan. 1960	FM23B is made Amendment to FM23A. (simplified code to be used after IGY)	Res. 22 (EC-X) - Modification of the International Meteorological Codes, Specifications and Descriptive terms and Instructions concerning Methods of Coding (May 1958)	Rec. 1 (CSM-II) - Simplified Code Forms for Ships in area where observations are sparse (Jan. 1958)	
	FM26B is made Amendment to FM26A (more frequent reports from the sea)		Rec. 2 (CSM-II) - Code form special reports from ships (Jan.1958)	
1 Jan. 1955	FM21.A,FM22.A,FM23A. is made -DsVsXXX is added to FM22-A SHIP ,FM 23-SHIP -note (6) under FM21 is added	Res. 21 (EC-IV) - Meteorological Codes and Forms of Messages (Oct.1953)	Rec. 18 (CSM-I) - Introduction of the code group DsVsXXX (Apr. 1953)	Annex I.6
	SHIP is introduced. -FM is not used here	Res. 161 (CD, Washington 1947) Standard Formats of Messages for Reports of Surface Observations (Sept. 1947)	Rec. XVI (CSWI Toronto 1947) - Standard Formats of Messages for Reports of Surface Observations	Annex I.7

Table 2
History of IMMPC/IMMT and Minimum Quality Control Standards

with effect from	Description of change	Resolution (EC)	Recommendation (CMM)	
1 Jan. 1998	ISO Alpha-2 country code be used as the country codes in the IMMT format.	Res. 8 (EC-XLIX) - Report of the Twelfth Session of the Commission for Marine Meteorology (June 1997)	Rec. 8 (CMM-XII) - Harmonized Country Codes in the IMMT format and the International List of Selected, Supplementary and Auxiliary Ships (WMO-No.47)	
not fixed	Inclusion of the revised MQC standards in the Manual on MMS (No. 558)	Res. 8 (EC-XLIX) - Report of the Twelfth Session of the Commission for Marine Meteorology (June 1997)	Rec. 7 (CMM-XII) - Revised minimum quality control standards	
2 Nov. 1994	Modified IMMT format (IMMT-1) is introduced. The implementation date is the same as that for SHIP	Res. 10 (EC-XLV) - Report of the Eleventh Session of the Commission for Marine Meteorology (June 1993)	Rec. 13 (CMM-XI) - Modification to the International Maritime Meteorological Tape (IMMT) Format for the Exchange of Marine Climatological Data	Annex II.1
1 Mar. 1985	Inclusion of weather indicator (ix) is the IMMPC/IMMT format for all the data	Res. 8 (EC-XXXVII) - Report of the Ninth Session of the Commission for Marine Meteorology (June 1985)	Rec. 5 (CMM-IX) - International Maritime Meteorological Punch Card (IMMPC)/International Maritime Meteorological Tape (IMMT)	Annex II.2
1 Jan. 1982	Revision of IMMPC in accordance with the new common surface code FM13-VII, and introduction of IMMT	Res. 9 (EC-XXXIV) - Report on the Eight Session of the Commission for Marine Meteorology (June 1982)	Rec. 8 (CMM-VIII) - International Maritime Meteorological Punch Card (IMMPC)/International Maritime Meteorological Tape (IMMT)	Annex II.3 (IMMPC) Annex II.4 (IMMT)
1 Jan 1966	Visibility, Height of clouds, etc. are modified. Amendments of Technical Regulations Appendix F (note) Rec23,24(CMM-III) are no longer be kept in force	Res. 14 (EC-XVII) - Report on the Forth Session of the Commission for Marine Meteorology (May 1965)	Rec. 28 (CMM-IV) - Amendments to the International Maritime Meteorological Punch-Card	Annex II.5
1 Jan 1962	Amendments of Technical Regulations, Appendix F Modified IMMPC format is introduced in accordance with commencement of MCSS.	Res. 20 (EC-XIII) - International Marine Meteorological Punch-Card (May 1961)	Rec. 23 (CMM-III) - International Maritime Meteorological Punch Card	Annex II.6
1 Jan 1962	Future changes in units and codes affecting the data to be entered on IMMPC always become effective on 1 Jan.	Res. 18 (EC-XIII) - Report on the Third Session of the Commission for Marine Meteorology (May 1961)	Rec. 25 (CMM-III) - Future Code Changes Affecting the International Maritime Meteorological Punch-Card	
1 Jan 1962	Country of Origin is identified by a number consisting two figures	Res. 18 (EC-XIII) - Report on the Third Session of the Commission for Marine Meteorology (May 1961)	Rec. 24 (CMM-III) - WMO System for the "Country of Origin" on the International Maritime Meteorological Punch Card	
not fixed	Amendments of Technical Regulations The international maritime punch card given in annex VI should be used for permanent records of synoptic surface observations made at sea stations.	Res. 33 (EC-IX) - Report on the Second Session of the Commission for Marine Meteorology (Sept. 1957)	Rec. 30 (CMM-II) - Proposed Amendments to the Technical Regulations Relating to Marine Meteorology	Annex II.7
not clear (Mar. 1951?)	The international code form for punching cards from ships' observations was adopted	Res. 23 (CD 1951) - International Punch card for ships' observations.		Annex II.8