# The effects at ECMWF of the changes of codes for surface observations on 1 January 1982

J. Hennessy

Operations Department

March 1982

This paper has not been published and should be regarded as an Internal Report from ECMWF.

Permission to quote from it should be obtained from the ECMWF.



European Centre for Medium-Range Weather Forecasts
Europäisches Zentrum für mittelfristige Wettervorhersage
Centre européen pour les prévisions météorologiques à moyen

### 1. INTRODUCTION

The new 'common code' FM12-VII SYNOP and FM13-VII SHIP replaced the former codes for reporting surface observations at 0000Z on 1 January 1982. The introduction of the new code also involved the rearrangement of bulletins so that all reports in one bulletin contained winds which were either all measured or all estimated and used the same units for wind speed. The division of the new code into sections for global, regional and national exchange also required changes to compiling and editing practices for compilation of the appropriate bulletins. These were all major changes.

There is a state of the same o

Centres receiving and using the data also had to make the necessary changes to decode and use the reports received in the new codes.

Descriptions of the codes are given in Appendix 1.

## 2. DECODING PROBLEMS AT ECMWF TO AN ESTABLISH AND ASSESSMENT OF THE PROBLEMS AT ECMWF

vir epu an Asamor v

In anticipation of some countries continuing to use the old code, the decoding system of the Operational Suite was geared to handle reports in either old code or new code - the MiMiMjMj group deciding the appropriate decoding routine. The MiMiMjMj group consists of 4 letters identifying the type of reports in the bulletin. In the old code MMXX denotes land station reports and NNXX denotes sea station. In the new code, the letters are AAXX and BBXX respectively. In the event of the MiMiMjMj group being missing or corrupt, the reports were decoded twice, being interpreted first as old code and then as new code. The two versions of each report were then presented for Quality Control and the better report stored in the Reports Data Base.

più mini tri sal il Suò redo pistò co lo cotario de un ligitali

The symbolic letters of the MiMiMjMj group proved to be absolutely useless as a means of identifying the code used in the reports. Many bulletins were received with the old MiMiMjMj (MMXX and NNXX) with reports in the new code and others with the new MiMiMjMj (AAXX and BBXX) and reports in the old code. A considerable number of SHIP bulletins contained a mixture of reports in both old and new code. Some SHIP bulletins had MiMiMjMj of WWXX - the indicator for satellite clear radiance data! To overcome this problem, the program was changed so that all bulletins and reports were decoded twice (MiMiMjMj indicator ignored) and the Quality Control retained the better reports.

The incoming data was closely monitored and when systematic errors were identified, the originating centres were notified where possible, and decoding routines modified to permit the use of the maximum amount of data.

kana dan wangiliki ilikuwa misi ili alima wakita apendari anda misa keka kesada menali ili alima waki ka mare

The following are the major changes made to accommodate frequent and systematic errors identified in the bulletin and report formats:

danah and the state of the stat

- a. The parallel decoding of all reports by ignoring the MiMiMjMj group (as mentioned earlier) was modified when a clearer picture of what formats were actually being received emerged. Reports from land stations were decoded in the old format only when the MiMiMjMj group was not 'AAXX'. Reports known to be in the old format (e.g. from USA and Canada) were not decoded in the new format. Ship reports continued to undergo the double decoding.
- b. The inclusion of date/time groups in the SHIP reports BBXX line was a very common error and the programs were modified to handle it.
- c. The illegal coding of  $i_Ri_X$  as // was catered for.  $i_R$  is the indicator for inclusion or omission of rainfall data and  $i_X$  the indicator for type of station operation. The use of / is invalid for both indicators.
- d. The section indicator 333 was commonly misused and extended to a 5 character group 333//, and allowance was made for this.
- e. American and Canadian land station reports frequently had spurious SM characters embedded in the reports. These were looked for and removed.

Reports on the difficulties encountered were sent to WMO periodically for corrective action. These reports are attached in Appendix 2.

At the moment, (March 1982), there is still a large number of ship reports being received in the old code, but the collecting centres normally issue them in separate bulletins. Some land stations are still reporting in the old code, mainly stations in Blocks 78 and 94.

## 3. DATA PROBLEMS AT ECMWF

The volume of surface data received on 1 January was well below normal as was the quality of the data. No data at all was received from North America for 0000Z or 0600Z (it was received in the old code for 0300Z and 0900Z). No data was received from Central America and very little from Siberia. Data was also missing for different times from South America, Africa, USSR and Afghanistan.

The quality of the data was well below normal. A particular problem was created by the use of the MiMiMjMj groups, as previously mentioned. These wrongly coded reports were only rejected at the data base quality control or analysis level and it cannot be excluded completely that some corrupt data (particularly MSL pressure values) might have been used in the analysis for the forecast run of 1 January.

The quantity of data received gradually increased over a number of weeks. The problem areas were generally Alaska and Central America (from where virtually no data was received) with below normal coverage on occasions from South America, Africa, Australia and USSR. Reports from Alaska and Central America have only been received on a regular basis since 8 February.

· Markey (1987 - 1987) - Andrew (1987) - And

4.0 · Christan Company (Charles Company) (Charles Company)

r 1904 de la company de la Regionale de la company de la c

notes (1960) — Generalization — tooky opining and note of the second of

The ball of the second of the

医神经性神经 医致物性的 医多种性 自身被毁坏 人名特勒

(i) The symbolic version of the new codes introduced in January is shown below.

## c. LIST OF CODE FORMS WITH NOTES AND REGULATIONS

## FM 12-VII SYNOP — Report of surface observation from a land station

## FM 13-VII SHIP — Report of surface observation from a sea station

### CODE FORM:

### NOTES:

- (1) The code form FM 12-VII SYNOP is used for reporting synoptic surface observations from a land station, manned or automatic. The code form FM 13-VII SHIP is used for the same kind of observations from a sea station, manned or automatic.
- (2) A SYNOP report from a land station is identified by the symbolic letters M<sub>i</sub>M<sub>i</sub>M<sub>j</sub> = AAXX.
- (3) A SHIP report from a sea station is identified by the symbolic letters M<sub>i</sub>M<sub>i</sub>M<sub>j</sub> = BBXX.
- Used in FM 12-VII.
   Used in FM 13-VII.
- (4) The code form is made up of figure groups arranged by sections in ascending order of their numerical indicators with the exception of the following:
  - (a) All the groups of Section 0 and for the first two groups of Section 1, which are always included in the report of any surface observing station;
  - (b) The first data group of Section 2 222D<sub>s</sub>v<sub>s</sub>, which is always included in the report of a sea station;
  - (c) The data group of Section 4, which is clearly identified by a three-figure indicator group.

As a result, the following features are achieved:

- (d) The loss of information due to the accidental loss of any one of these groups is strictly limited to the information content of that group;
- (e) The rules of inclusion or omission of sections or of groups between brackets can also be laid down for each specific case of station type or of data requirements;
- (f) The length of the message can be kept to a strict minimum by dropping out some groups whenever their information content is considered insignificant or when that information content is not normally available.

It is to be noted that the code word ICE of Section 2 plays the role of a numerical indicator for the last data group of the section or for the equivalent plain language information.

(5) The code form is divided into a number of sections as follows:

ection number Symbolic	figure groups	Contents
O History (Inc.) Haddage (Inc.) Ha MHD Will Will	<u>ា</u> ខែ និមាន មិទ្ធិ នាស នៃម៉ាន ខែមាន នាទាំងស្ន	Data for reporting identification (type, ship's call sign/buoy identifier, date, time, location) and units of wind speed used
of Artendary of the gar of and head of additions	_	Data for international exchanges which are common to the SYNOP and to the SHIP code form
2 . ja jan jamijak lada. Titom lakka takan nala		Maritime data pertaining to a sea or to a coastal station
3	333	Data for regional exchange
4	444	Data for clouds with base below station level, included by national decision
5	555	Data for national exchange

(ii) The old codes replaced in January were FM 11-V SYNOP, FM 14-V SYNOP, FM 21-V SHIP, FM 22-V SHIP, FM 23-V SHRED, FM-24V SHIP and FM 26-IV SPESH. Of these, the principal code forms used were FM 11-V and FM 21-V and these are shown below in symbolic form.

## c. LIST OF CODE FORMS WITH NOTES AND REGULATIONS

## FM 11-V SYNOP — Report of synoptic surface observation from a land station

## CODE FORM:

Se.

M<sub>I</sub>M<sub>I</sub>M<sub>I</sub>M<sub>I</sub>M<sub>I</sub> YYGG

IIII Nddff VVwwW PPPTT N<sub>h</sub>C<sub>L</sub>hC<sub>M</sub>C<sub>H</sub>

T<sub>d</sub>T<sub>d</sub> J<sub>a</sub>j<sub>p</sub>j<sub>p</sub> (6P<sub>o</sub>P<sub>o</sub>P<sub>o</sub>) (7RRJj) (8N<sub>s</sub>Ch<sub>s</sub>h<sub>s</sub>) (9S<sub>P</sub>S<sub>P</sub>S<sub>p</sub>S<sub>p</sub>)

(MONT N'C'H'H'Ct) (Additional groups)

(Supplementary information in plain language)

### NOTES:

- (1) The code form FM 11-V SYNOP is used for reporting synoptic surface observations from a land station, whether manned or automatic. However, the code form FM 14-V SYNOP, rather than the code form FM 11-V SYNOP, should be used when the land station at which the observations are made is permanently automatic.
- (2) Land stations which are sometimes manned and sometimes operated automatically always draw up their reports in a single code, preferably FM 11-V.
- (3) The automatic land weather stations which use the code form FM 14-V SYNOP are listed in Volume A of WMO Publication No. 9.
- (4) A SYNOP report coded in FM 11-V, or a bulletin of these reports, is identified by the symbolic letters M<sub>i</sub>M<sub>i</sub>M<sub>j</sub>M<sub>j</sub> = MMXX.
- (5) Groups in brackets are drop-out items and may or may not be included in the report, depending on specified conditions.
- (6) The groups with indicator figures 8 and 9 may be repeated as necessary.

## FM 21-V SHIP — Report of synoptic surface observation from a sea station

### CODE FORM:

M<sub>1</sub>M<sub>1</sub>M<sub>1</sub>M<sub>2</sub>

99L<sub>a</sub>L<sub>a</sub> Q<sub>c</sub>L<sub>o</sub>L<sub>o</sub>L<sub>o</sub>L<sub>o</sub> YYGGi<sub>w</sub> Nddff VVwwW

PPPTT N<sub>h</sub>C<sub>L</sub>hC<sub>M</sub>C<sub>H</sub> D<sub>s</sub>v<sub>s</sub>app (7RRjj) (8N<sub>s</sub>Ch<sub>s</sub>h<sub>s</sub>)

(9S<sub>P</sub>S<sub>P</sub>S<sub>p</sub>S<sub>p</sub>) (0T<sub>s</sub>T<sub>s</sub>T<sub>d</sub>T<sub>d</sub>) (1T<sub>w</sub>T<sub>w</sub>T<sub>t</sub>T) (2I<sub>s</sub>E<sub>s</sub>E<sub>s</sub>R<sub>s</sub>) (3P<sub>w</sub>P<sub>w</sub>H<sub>w</sub>H<sub>w</sub>

(d<sub>w</sub>d<sub>w</sub>P<sub>w</sub>H<sub>w</sub>H<sub>w</sub>))

(ICE + {
 plain language or c<sub>i</sub>S<sub>i</sub>b<sub>i</sub>D<sub>i</sub>Z<sub>i</sub>}
 ) (Supplementary information)

### NOTES:

- (1) The code form FM 21–V SHIP is used for reporting synoptic surface observations from a sea station, whether manned or automatic. However, the code form FM 24–V SHIP, rather than the code form FM 21–V SHIP, should be used when the sea station at which the observations are made is permanently automatic.
- (2) Sea stations which are sometimes manned and sometimes operated automatically always draw up their reports in a single code, preferably FM 21-V.
- (3) A SHIP report coded in FM 21-V, or a bulletin of these reports, is identified by the symbolic letters  $M_iM_iM_jM_j=NNXX$ .
- (4) Groups in brackets are drop-out items and may or may not be included in the report, depending on specified conditions.
- (5) The groups with indicator figures 8 and 9 may be repeated as necessary.
- (6) The code form FM 21–V is considered suitable not only for selected ships, but also for ocean weather stations.
- \* Ship call-sign normally inserted here.
- (iii) The new codes removed some limitations and ambiguities present in the old e.g. including a sign digit for temperature and dewpoint presents a solution for temperatures less than -49°C, and the inclusion of the hundreds value in reported pressure removes any doubt as to whether the pressure is greater or less than 1000 hectopascal.

The old codes included drop-out groups at the end of the reports, whereas in the new code any groups may be omitted except those in Section Ø and the first 2 groups of Section 1. In both cases drop-out groups are identified by the leading digit and their omission causes no problems. In the old code there were 5 groups containing parameter values which were position dependent, whereas the new code has only 2, and this feature enables more information to be extracted automatically from a report with a group incorrect or missing (it is a pity that all parameter groups are not identified by a unique indicator).

More information is given in the new code. Temperature values are given to 1 decimal place, a greater range of rainfall values can be reported (and the period to which the measurement refers is included) and different types of past weather can be reported.

Information on station operation (manned or automatic), wind measurement (instrument or estimate) and units of wind speed (knots or metres per second) is now included in each report.

Reports to WMO on problems encountered with the new code and formats.

## (i) Message sent to WMO on 4.1.82

You might be interested in the following summary of what happened at ECMWF when the new code was introduced:

## History of events on JAN 1st

Although the decoding program of the ECMWF operational suite was geared to accept both old and new codes on 1 Jan. in a way that the MiMiMjMj group would decide on the decoding routine, many problems were encountered.

All SYNOPS from KWBC were missing from OOZ and O6Z. Errors in the MiMiMjMj and/or the YYGGI groups were found in a number of bulletins.

A particular problem was created by bulletins with the old MiMiMjMj of MMXX and NNXX containing reports in new code, which was decoded according to the old practice as indicated by the MiMiMjMj line. These bulletins originated mainly from Italy (Block 16), North America (Block 72), Pacific (Block 91) and Russia (Block 24 which was the only one received). In addition to these bulletins ship reports from North America and Russia were also affected. These wrongly coded reports were only rejected at the data base quality control or analysis level and it cannot be excluded completely that some corrupt data (particularly MSL pressure values) might have been used in the analysis. These problems were further aggravated by the fact that offduty staff had to be called in on this public holiday and the subsequent weekend staff to help overcome the problems.

## Later developments and present state of affairs

Parallel processing in both decoding systems helped to overcome the most serious problems and the incorrect heading of new code with old headers was stopped by reverting completely to the old system in the case of North America.

At present (82/01/04/03Z) incorrect bulletins are mainly received from: SIBE MXKF (BERMUDA), with the MiMj line missing and unrecognizable character before the II III Group.

SICN1 CYCY (Canada), with MiMiMjMj line missing SIIO1 FJDG (Indian ocean) missing MiMj line SICN20-25 KWBC SIUS20-22 KWBC SIGLAI BGSF:
Old code for Greenland, Canada, US.

SÌRO25 YRBK

SITU20:

SIDD20

ETPD

MMXX - Headers used in Romania, Turkey

## (ii) Message sent to WMO on 11.1.82

Responding to your telex of 7 January, please find in the following a list of incorrect bulletins, as observed during the 24 hour period ending today at 0600Z.

Fragging to the minimum containing the property of 444 in the first of the property of

## (1) Missing MiMiMjMj Line

```
SIBE MXKF
                          (Bermuda)
SICN1 CWLA
                          (Canada)
SIIO1 FJDG
                          (Indian Ocean)
SIPO22 LPPT
                          (Portugal)
SIVF25 EGRR
                          (RA VI SHIPS)
SIKN20 HKNC
                          (Kenya)
SMTH1 VTBB
                          (Thailand)
SMAA NZCM
                          (Antarctic)
SMAA 1AMMC
SMKR1 DKPY
                          (Korea)
SMVX2 RPMM
                          (Ships)
SMVX1 LEMM
                                                         oversi jajkisia eda ye boso Gio.
SMIS1 LLBD
                          (Israel)
SMVE1 AMMC
                          (RA V Ships)
SIMB20 FAME
                          (Marion Island)
SMWB1 RJTD
                          (RA II Ships)
SMAA1 STFK
                          (Antarctic)
SMVF1 EKMI
                          (RA VI Ships)
SMIE1 EIDB
                          (Ireland)
SNIE23 EIDB
```

## (2) Invalid MiMiMjMj line (reports in new code)

```
SMAA NZCM
                           (Antarctic)
SMAA1 AMMC
SMVD10
         RUMS
                           (RA IV SHIPS)
                                            (use WNXX)
SM VF. 2
         LFPW
                           (RA III Correction VI ships)
SM VF10
         RUMS
                           (RA VI Ships)
SMVA 10
         RUMS
                           (RA I Ships)
SMVC 13
         RUMS
                           (RA III Ships)
SMVA 1
         DIAP
                           (RA I Ships)
SMBZ 10
         SBBR
                           Brazil
SMBW 1
         VGDC
                           Bangladesh
SMVF 1
         LFPW
                           (RA VI Ships)
SMLA 1
         VLIV
                           (Laos)
SMRS 11
         RUMS
                           (USSR)
SMNH 1
         NHHH
                           (New Hebrides)
SMCH 1
         SCSC
                           (Chile)
SMVA13
        RUMS
                           (RA I Ships)
SMNC 20 NWWB
                           (New Caledonia)
SMAA
        NZCM
                           (Antarctic)
SMLS 1
        FXMU
                           (Lesotho)
SMAA1
        AMMC
                           (Antarctic)
SMGL 1
        BGSF
                           (Greenland)
SMFR20
        LFPW
                           (France)
SIVA20
        FMEE
                           (RA I Ships)
```

(German D Republic)

SIRO25 YRBK (Romania) SMVD10 RUHB (RH IV Ships) SMGL21 BGSF (Greenland) SMPK1 OPKC (Pakistan) SMSU2 HSSS (Sudan) SMNO23 ENMI (Norway)

(3) Mixture of reports in old and new code (same bulletin)

SMVF3 LFPW

(RA VI Ships)

SMUD4 KWBC

(RA IV Ships)

SMVD5 KSFO

- Bulletins and reports in old code (withhold MiMiMjMj line) received from Canada, USA, Arctic (via EESA) and Bracknell (Ship reports only).
- (5) Very little data has been received from Alaska, Caribbean and Northern USSR since 1.1.82.

#### (iii) Message sent to WMO on 19.1.82

Sevis, i ujiyi Please find in the following a list of incorrect bulletins, as observed in the 24 hour period ending at 0600Z today.

(1) Missing MiMiMjMj line

SIBE MXKF

SII01 FJDG

SICN1 CYCY

SIKN20 HKNC

SIRH20 FRSB

SIAR20 OEJD

SMCM20 FKKD

SIIE22 EIDB

SIMA20 FIMP

SMAA1 AMMC

SMAA NZCM SMKU1 NCRG

SMTG20 DXXX

SMVX1 VHHH SMVE 1 NFFN

SMTH1 VTBB

(2) Invalid MiMiMjMj line (reports in new code)

SMBW1 VGDC

SMSN41 ESW1

SMVA10 RUMS

SMVC13 RUMS

SMVB10 RUMS

SMVA13 RUMS

SMVD10 RUMA

SMVA1 DTTA SMVF1 LLBD

SMCV1 GVAC

SMVF10 RUMS

```
SMNC1 NWWB
 SMVC10 RUML
 SMVF2 LFPW
 SMVE1 AMMC
 SMVB10 RUHB
 SMCE1 FFFF
 SMID1 WIII
 SIVF20 EBBR
 SIVA20 DTTA
 SMVF1 EBBR
 SMGH1 DGAA
 SMVF1 EHDB
 SMDD20 FTPD
 SMEG1 HECA
 SMFG1 MOCA
 SMFH10 RUMS
 SMVF1 LFPW
                               Bulletins and reports in old code (old MiMiMjMj group) Received
 SIAC21 EESA
 SIVF21 EHDB
 SIVF25 EHDB
 SICN24 KWBC
 SICN25 KWBC Represents to the form of the first section and the fi
 SICN21 KWBC
 SICN20 KWBC
 SIUS21 KWBC
 SIUS22 KWBC
 SIUS20 KWBC
SICN22 KWBC
SICN23 KWBC
SMVE2 AMMC
SMVE 1 AMMC
SIVF21 LFPW
SMVF4 EGRR
SMVX1 LEMM
SNVF21 EHDB
SIVF21 EHDB
SMVX1 LPPT
SMVX3 LPPT
SMVF5 EHDB
SMVF1 LFPW
```

A regrettably large portion of the errors are in ship bulletins, many from Russian ships. For US/Canada, main hours are received in new code. Intermediate hours (03,09,15,21) in old code (with correct headings).

## (iv) Message sent to WMO on 26.1.82

The following is a list of incorrect bulletins received in the 24 hour period ending at 0600Z today (26 Jan 1982).

(1) Missing MiMiMjMj line

SIBE MXKF

SICN1 CYCY

SIIO1 FJDG

SMIO1 FJDG

```
SICH20 SCSC
             if the graduate accumulation and the state of the state of
SMTG20 DXXX
SMVF2 EGRR
SMFR43 LFPW
SMVX1 LEMM
SMKR2 DKPY
SMVA1
       HFFF
SMFJ2
       NFFN
SMNZ1
       NZKL
SMVF1
       EBBR
SMVE 1
       AMMC
SMBM1
       VBRR
       Invalid MiMiMjMj line (Reports in new code)
(2)
SMAA1
SMAA
       NZCM
SMYG30 LYBM
SMVA 10 RUMS
SMVC13 RUMS
SMVD10 RUMS
SMVA13 RUMS
SMVF10 RUMS
SMVD1 EGRR
SMGL 1
       BGSF
SMPK1
       OPKC
SMPK20 OPKC
SMGN2 GUCY
SMGN20 GUCY
SMRA10 RUTK
SMRA11 RUTK
SMRO20 YRBK
SNDD40 ETPD
SNDD44 ETPD
SMNC20 NWWB
SIVF20 LPPW
SMVB10 RUHB
SMVE13 RUHB
       Bulletins in old code (old MiMiMjMj group)
(3)
SIAC21 EESA
SMAC21 EESA
SICN20 KWBC
SICN21 KWBC
SICN22 KWBC
SICN23 KWBC
SICN24 KWBC
SICN25 KWBC
SIUS20 KWBC
SIUS21 KWBC
SIUS22 KWBC
SMVF3
       LFPW
SMVE 1
       AMMC
       AMMC
SMVE 2
SMVX3
       LPPT
```

The errors in Soviet ship bulletins continue to give concern, as does the American practice of including ship reports in old code in ship bulletins with new MiMiMjMj line and new reports.

## (v) Message sent to WMO on 17.2.82

The following is a list of incorrect bulletins received at ECMWF in the period 0600-1800 on 17 February 1982.

(1) Ship bulletins in old format, with reports in old code

\*\*

11

SMVD6 KWBC

SMVD6 KSFO

(2) Ship bulletins in new format, with reports in new code, with incorrect MiMiMjMj line.

SMVX2 DEMS YYGGIW included

SMVA10 RUMS YYGG, YYGGIW included

SMVA13 RUMS YYGG

SMVC13 RUMS YYGG,YYGGIW

SMVF10 RUMS YYGG, YYGGIW " .NNXX used.

SMVA1 FMEE YYGG, YYGGIW Included

SMVB10 RUHB YYGGIW included

SMVA1 DTTA NNXX used

SMVF1 EBBR YYGG included

SMVA1 FIMP " "

SMVA1 HKNC " "
SMVB1 FIMP " "

SNWD21 EGRR YYGG included

SIWD21 EGRR " "

## (3) SYNOP bulletins with invalid MiMiMjMj line

SMBE MXKF YYGGGG instead of YYGGIW .... SMPL30 SOWR YYGG " " 11 11 SMIS22 LLBD 11 11 11 11 SMNR1 DRRN SMFR20 LFPW YYGGIW corrupt , n n SMFJ1 NFFN SMMA1 FIMP 11 11 SMCM1 FKKD SMKN1 HKNC YYGG instead of YYGGIW \*\* SMJD1 OJAM 11 \*\* 11 SMKN20 HKNC 11 11 SMKB1 NGTA 11 \*\* Ħ • 11 11 SMTN1 HTDA \*\* " \*\* 11 SMTN20 HTDA \*\* 11 11 71 SMPH2 RPMM 11 11 SIPL21 SOWR 11 11 11 .. SICH20 SCSC \*\* 11 11 11 11 11 SMIS1 LLBD 11 11 11 11 SMGN1 GUCY SIFR40 LFPW " 11 n SMFG1 MOCA YYGGGG

SMNR1 DRRN AAWWXX " " " Mistake: Instead "AAXX

SMNR1 DRRN YYGGIW Missing

SIPL30 SOWR MMXX Instead of AAXX

SMMG1 FNMI Report on AAXX line

## (2) Bulletins with MiMiMjMj line missing

SIIO1 FJDG

SMIO1 FJDG

SIBE MXKF

SMVF4 EGRR

SMVK1 EDZW

The use of the date/time group in both SYNOP and SHIP bulletins is still incorrect on quite a large scale.