Deficiencies in the application of the WMO standards for the presentation of the CLIMAT and CLIMAT TEMP bulletins

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Summary

The amount of the CLIMAT and CLIMAT TEMP bulletins, which do not comply with the WMO standards for presentation of the bulletins, were significant during two Special MTN Monitoring (SMM) exercises in April and October 2004. Table 1 shows the number of the CLIMAT and CLIMAT TEMP reports and bulletins received during these two exercises as well as the number and the percentage of the bulletins in which the deficiencies have been discovered.

Table 1

		April 2004 SMM	October 2004 SMM
CLIMAT bulletins	Number of bulletins received	398	435
	Number of bulletins with deficiencies	80 (20%)	76 (17%)
CLIMAT TEMP bulletins	Number of bulletins received	196	206
	Number of bulletins with deficiencies	57 (29%)	84 (41%)

The most frequent deficiencies found in the CLIMAT and CLIMAT TEMP bulletins were:

- Misspelling or omitting the code name CLIMAT or CLIMAT TEMP in the first line of the text
- Repeating the code name CLIMAT or CLIMAT TEMP in the same bulletin
- Incorrect or omitted group MMJJJ
- Repeating MMJJJ in the same bulletin
- Station index IIiii is not in the beginning of the line or repeated or omitted.

These deficiencies could lead to different counting of the bulletins collected in the different monitoring centers depending on the tolerance of their software to the deficiencies. The centers with the more sophisticated software could count more CLIMAT and CLIMAT TEMP reports because they can find the deficiencies and can make required corrections. The centers with the less sophisticated software could lose some bulletins with deficiencies and count fewer bulletins.

The first four deficiencies in the list above are generated at the collecting centres and not at the observing stations. These deficiencies are generated manually or automatically during the compilation of the reports from several stations into one bulletin. The necessary assistance should be given to these centres to improve the situation.

On the other hand, some deficiencies in CLIMAT and CLIMAT TEMP bulletins were generated by the observing stations. Two of these deficiencies are:

- The data are not presented according to code forms FM 71-XII or FM 75-XII
- The section groups in the CLIMAT reports are incorrect, omitted or incorrectly placed.

These deficiencies are not too much frequent and they could be eliminated if the necessary training is given to the staff of particular stations.

Recommendations to further address the question of the non-application of the WMO standards.

The following recommendations are proposed:

- To distribute this report to the compiling centres, which are listed in the Appendixes 3 and 4, with examples of deficiencies in their CLIMAT and CLIMAT TEMP bulletins. To invite the centres to take actions to correct the deficiencies as soon as possible. (Action by WWW/ISS)

- To inform the climatological centres of the results of the analysis of the presentation of CLIMAT and CLIMAT TEMP bulletins and to invite them to assess the negative impacts of the deficiencies found on their products and services. Special attention should be paid to the possible loss of reports. From this assessment, a list of priority action to further monitor each type of deficiencies should be established (action by the WCP Department).

- To train the operational staff at the compiling centres and at the CLIMAT reporting stations in applying the WMO standards for the presentation of the CLIMAT and CLIMAT TEMP reports and bulletins. For this purpose, the regular evaluation of the collected bulletins should be done. The national focal points on the CLIMAT and CLIMAT TEMP issues should be informed interactively about deficiencies in the bulletins from their countries. It is necessarily to arrange the regional and sub-regional workshops on the issue. (Action by the WCP and WWW Departments)

- To re-consider the WMO standards to improve the quality and reliability of the CLIMAT and CLIMAT TEMP bulletins taking into account the advantages in using computers for coding and decoding the meteorological data. (Action by the WCP and WWW Departments).

- The climatological centres and the Secretariat should share the responsibilities to further monitor the presentation of CLIMAT and CLIMAT TEMP bulletins, using in particular the SMM data, and to further undertake the follow-up actions to overcome the deficiencies. Automatic detection of the deficiencies in the SMM bulletins should be envisaged (action by the WCP and WWW Departments).

- Finally, it is necessarily to find financial support from the WMO budget and from the international community to continue and expand the activities in improving the quantity and quality of the CLIMAT and CLIMAT TEMP reports from the observing stations. (Action by the WCP and WWW Departments).

1. Background

The analysis of the Annual Global Monitoring centres shows significant differences in the availability of CLIMAT and CLIMAT TEMP reports received by MTN centres. One reason for these differences is the different levels of tolerance in the acceptance of the bulletins or reports, when the bulletins are not presented in conformity with the WMO standards. There is a need to analyse the meteorological reports and bulletins received during the exercises and to identify the deficiencies in the application of the WMO standards for the presentation of the CLIMAT and CLIMAT TEMP reports.

It is necessarily to highlight the very high value of the CLIMAT and CLIMAT TEMP reports. It is necessarily to recall that to produce one CLIMAT monthly report there is a need to have a set of about 30 x 4 =120 observations for the main meteorological parameters and to make sophisticated calculations to get the monthly average values of these parameters. However, it is very easy to lose these valuable parameters because of the smallest negligence in the application of the WMO standards for presentation of the CLIMAT and CLIMAT TEMP bulletins. For example, if the group CLIMAT MMJJJ is omitted, the parameters have no time coordinates and they become useless.

This report will consider the deficiencies in the application of the following WMO standards for the presentation of the CLIMAT and CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A – Alphanumeric Codes, WMO-# 306 and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-#386.

The report is based on the analysis of the CLIMAT and CLIMAT TEMP bulletins received in the SMM Monitoring Centre in Toulouse, France during two SMM exercises: in April 2004 (SMM044) and in October 2004 (SMM04A). These bulletins are available in the WMO FTP server in ftp://www.wmo.ch/GTS_monitoring/SMM/To_WMO/sm04401.015/ and in ftp://www.wmo.ch/GTS_monitoring/SMM/To_WMO/sm04A01.015/ as the files lfpwcl00.zip and lfpwct00.zip.

In addition to these SMM "raw data" files, SMM "pre-analysed" files prepared by Cairo were used in the study. These files are also available at the WMO FTP server in ftp://www.wmo.ch/GTS_monitoring/SMM/To_WMO/HECA044/ and in ftp://www.wmo.ch/GTS_monitoring/SMM/To_WMO/HECA04A/ as LFTPCL00.DBF and LFPWCT00.DBF. These files have been imported into the MS Access 2000 database CLIMON (CLImat MONitoring), which was specially developed by the author for the study.

The combination of the database and the raw data files make it possible to find deficiencies in the beginning (three first lines) of the CLIMAT and CLIMAT TEMP bulletins as well as into the rest of the bulletins. The raw data were analysed by the expert using the MS Word for Windows 2000 software.

The indexes SMM044 and SMM04A have been used to indicate that the files, tables, queries, reports are related to the Special MTN Monitoring (SMM) exercises in April 2004 and in October 2004 respectively.

2. Classifications of the types of errors

The different types of errors, that were found in the text of the CLIMAT and CLIMAT TEMP bulletins, are listed in the following Table 2. The first column of the table lists the error flags F1 to F20 used to mark the bulletins with deficiencies. The error type for each error flag is described in the second column of the table. The references to the WMO standards are given in the third column.

Table 2

Error Flag	Error Type Description	Reference to the WMO standards
F1	Misspelling or omitting the code name CLIMAT or CLIMAT TEMP in the first line of the text	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-138, § 71.2.2, Page 149, § 75.2
F2	Repeating the code name CLIMAT or CLIMAT TEMP in the same bulletin	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-138, § 71.2.2, Page 149, § 75.2
F3	Unexpected string of characters such as "PARTI", "PARTII".	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-138, § 71.2.2, Page A-149, § 75.2
F4	Repeating MMJJJ in the same bulletin	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-138, § 71.2.2, Page A-149, § 75.2
F5	Incorrect or omitted group MMJJJ	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-138, § 71.2.2, Page A-149, § 75.2
F6	Number 50 added to the MM in the group MMJJJ of the CLIMAT bulletin	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Section B, Page B-40
F7	Incorrect sequence of the groups MMJJJ and IIiii	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-138, § 71.2.2, Page A-149, § 75.2
F8	Station index IIiii is not in the beginning of the line or repeated	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-138, § 71.2.2, Page A-149, § 75.2 Manual on the GTS, WMO-No. 386, Volume I, Part II, Page A.II-4, § 2.3.3
F9	Incorrect section group (ex.111) or repeated or omitted	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-137 Code form FM 71
F10	No space between section group and group with data	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-137 Code form
F11	Section group is incorrect, omitted or incorrectly placed	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-137 Code form FM 71
F12	No space between adjacent groups	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-137 Code form
F13	There is a space inside a group	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-137 Code form
F14	Signal End of Report "=" is omitted	Manual on the GTS, WMO-No. 386, Volume I, Part II, Page A.II-4, § 2.3.3
F15	Signal End of Report "=" repeated after each section	Manual on the GTS, WMO-No. 386, Volume I, Part II, Page A.II-4, § 2.3.3
F16	Sign End of Bulletin is omitted	Manual on the GTS, WMO-No. 386, Volume I, Part II, Page A.II-4, § 2.3.4
F17	CLIMAT report has been inserted into CLIMAT TEMP bulletin	Manual on the GTS, WMO-No. 386, Volume I, Part II, Page A.II-4, § 2.3.3.1(a)
F18	The data are not presented according to code forms FM 71-XII or FM 75-XII	Manual on Codes, WMO-No. 306, Volume I.1, Part A, Page A-137 Code form FM 71, Page A-149 Code form FM 75
F19	The group CLIMAT MMJJJ has been inserted into a NIL bulletin	Manual on the GTS, WMO-No. 386, Volume I, Part II, Page A.II-5, § 2.3.3.2.7 (b)
F20	BBB group should be added to the abbreviated heading	Manual on the GTS, WMO-No. 386, Volume I, Part II, Page A.II-4, BBB group

3. Summary of the deficiencies for the April 2004 SMM

The SMM044 exercise took place in April 2004. It was the first experience in the WMO Secretariat to analyze the deficiencies in the application of the WMO standards for the presentation of the CLIMAT and CLIMAT TEMP reports and bulletins. The results of the analysis were distributed to the WMO Members in June 2004 and they were invited to consider implementing the corrections proposed as soon as possible.

3.1   CLIMAT bulletins

The summary of the deficiencies found in 80 CLIMAT bulletins received during the April 2004 SMM (SMM044) is presented in Appendix 1. The abbreviated heading TTAAII CCCC YYGGgg and the country name identify the bulletins. The types of errors F1 to F20 (see Table 2) are shown for each of the bulletins in Appendix 1. The values of flags are logical 0 (false) and logical -1 (true). That means that the value of the particular flag is –1 if this particular deficiency has been discovered in the bulletin.

For example, the first line in the Appendix 1 presents the bulletin CSAL21 DAMM 040800 from Algeria where the error flags F1 and F5 have the value of –1. This means that there is no (misspelling or omitting) code name CLIMAT (F1=-1) and there is no (incorrect or omitted) group MMJJJ (F5=-1). To confirm this fact, the text of the bulletin is given below.

```
Example 1 (F1, F5):
CSAL21 DAMM 040800
60353 111 10183 20191 30142027 401770106 5126 60074/12 7174047
        8000000 9000000
     333 00200 31205 8160200
     444 0019713 2006202=
60369 111 10181 20190 30148/// 40175120 5127 606707 7151///
        8000000 900000
     333 010000 300302 400200 8050000 9000000
     444 0019713 1005702 2029812 3002802 4008822 501225 60100
     555 0000000 1000000 2006150=
60387 111 10179 20185 30137/// 401680106 5123 60109/10 7171///
        8000000 9000000
     333 00100 10000 20000 31304 40301 50000 60101 70000 8090000
        9000001
     444 0018913 1004402 2026912 3001802 4051502 5401325 60100
     555 0000000 1010000 2073030=
etc.
```

Another self-explaining example is given below for the cases F2=-1 and F4=-1 (repetition of the groups CLIMAT and MMJJJ (highlighted in red)):

```
Example 2 (F2, F4):
CSKO01 RKSL 030000
CLIMAT 03004 47101
111 10100 20195 30051044 401231017 5042 60020103 7220106 8000000
9000000
222 07100 10102 20196 30042010 401081016 5053 6004005 7206 8000000
9000000
333 00000 10000 22301 30302 40000 50000 60504 70000 8000000
9000001
444 0012129 1103406 2021316 3110607 4009017 5113410 60100 72151500=
CLIMAT 03004 47105
111 10143 20175 30079055 401260032 5041 60008001 7246134 8000000
9000000
222 07100 10157 20191 30059013 401050016 5055 6007207 7184 8000000
9000000
333 00000 10000 20800 30101 40000 50000 60402 70000 8010000
9000000
444 0018316 1101706 2023528 3105807 4007505 5124710 60000 72151500=
CLIMAT 03004 47108
111 10094 20200 30063049 401110021 5048 60028205 7222112 8000000
9000000
222 07100 10092 20200 30052013 401020011 5055 6004605 7198 8000000
9000000
333 00000 10000 21101 30502 40100 50000 60505 70200 8000000
```

9000001
444 0014516 1103406 2018716 3105607 4014604 5118610 60400 72151500=
CLIMAT 03004 47115
etc.

The total of errors for each type of error is given at the end of Appendix 1. The most frequent error is F5 "Incorrect or Omitted group MMJJJ": there are 31 bulletins with F1=-1. See one example CSAL21 DAMM 040800 above.

The next frequent error is F3 (Unexpected string of characters…), which has been met in 18 CLIMAT bulletins, as in the following example:

Example 3 (F3):
CSAG02 SABM 061402
CLIMAT 03004
PART 2 OF 2
87563 111 10100 20142 30214/// 402830140 5172 60056205 7274///
8000000 9000000 333 02808 30504 40200 8020000 9000104 444 2033326
3004809 4036117 5118002 60200=

The third more frequent error is F18 (Data are not presented according to code form FM 71). See one example below, in which in addition to F18 there are also the errors F3, F4 and F5 (highlighted in red).

Example 4 (F3, F4, F5.F18):
CSMG01 FMMD 041200
CLIMAT
03004 67009 111 99982 40101 30262068 403120227 5268 60254411
     72190100 8000000 9000001=
03004 67012 111 10093 20103 30271042 403170239 5299 60540124
     7////// 8000000 9000031
     ACTIVE 03012 00040 40513=
03004 67027 111 10070 20090 30280093 403230241 5299 60247513
     7221090 8000000 9000000
     INFOR: 13347 09910 23929 35028 22006 28299
     INSOLATION: 220,9 HEURES=
03004 67083 111 18739 21513 30200010 402510171 5196 60124210
     7158160 8000000 9000000=
03004 67095 111 10110 20116 30266010 403070233 5299 60581423
     7121063 8000000 9000000
     ISOL: 121,2 INFO:23581 09522 09914 36412 21018 27099=
03004 67152 111 9186 20496 30231// 402890193 50199 60247109 7//////
     800000000 900000//=

Finally, the following deficiencies are also frequent:
- F20 (BBB group should be added to the abbreviated heading) – 15 bulletins;
- F11 (Section group is incorrect or omitted) – 13 bulletins;
- F4 (Repeating group MMJJJ in the same bulletin) – 12 bulletins;
- F8 (Station index Iiiii is not in the beginning of the line) – 11 bulletins;
- F1 (Misspelling or omitting the code name CLIMAT in the first line of the text) – 11 bulletins;
- F2 (Repeating of the code name CLIMAT in the same bulletin) – 8 bulletins

3.2   CLIMAT TEMP bulletins

The summary of the deficiencies found in 57 CLIMAT TEMP bulletins received during the April 2004 SMM (SMM044) is presented in Appendix 2. The abbreviated heading TTAAII CCCC YYGGgg and the country name identify the bulletins. The types of errors F1 to F20 (see Table 2) are shown for each of the bulletins in Appendix 2.

The most frequent error type was F1 – "Misspelling or omitting the code name CLIMAT TEMP in the first line of the text". There were 27 CLIMAT TEMP bulletins with this type of deficiencies. See two examples below.

Example 5 (F1, F3):

CUCN08 CWAO 010000
CLIMAT/TEMP 53004
71909 20137 76047 13080 17440 75958 28910 27150
17800 88870 26818 50710 19040 89778 26731 84360
10311 36784 25942 10390 30062 48885 25731 29130
30082 80988 25229 55410 30282 79887 25130 99690
40662 64/89 25134 31820 50992 49/89 26035=
71913 20167 45040 13720 76550 75565 28415 28270
77040 65481 29023 52550 78400 72585 29135 86720
70400 90684 29046 12630 70371 88589 28943 31200
70232 51594 29241 57470 70222 71595 29238 01990
70512 78594 29536 34430 70732 66692 29836=
71915 20098 08046 13060 17450 93748 29509 27130
17830 91663 28617 50660 19070 94773 27927 84250
20381 34985 28336 10450 20122 56993 27632 29130
20152 90895 27630 55380 20282 99893 27428 99770
20642 90992 28330 32100 20962 78991 27833=
END OF CUCN08

Example 6 (F1):
CUCH01 SCSC 051800
53004
85442 2991 68024
14920 01872 04289 01607
31400 0126/ //111 31601
58710 05493 41175 27613
96700 08332 41594 27737
23940 10381 69495 29155
41950 11382 347// /////
66100 2258/ //9// /////
////0 6//// //9// /////
////0 6//// //9// /////=

85469 10122 52073
15480 21320 65225 11802
31650 20681 62335 11802
58480 25971 79361 26612
95840 28741 30351 25514
22890 20831 33333 251111
40300 21421 88428 25308
65000 21672 77564 29613
06950 6//// //7// /////
////0 8//// //9// /////=

The next frequent error is again F3 (Unexpected string of characters…), which has been met in 17 CLIMAT TEMP bulletins. An example with errors F3 and F4 is given below.

Example 7 (F3,F4):
CUEG01 HECA 051145
CLIMAT TEMP
EGYPT 03/04/2004
53004 62337 30082 65195 14970 01711 57085
30512 31250 00701 13087 30030 57880 06180
63090 26526 94880 08982 55095 26545 21250
00761 79098 26061 39640 00653 47099 26063
64910 01463 27099 26547 06593 02073 13999
27526 ///// ///// ///// /////=

53004 62423 30082 01242 15300 01262 84061
35509 31350 00493 64063 31012 57890 06273
07081 27425 94850 08862 33091 27262 21720
00312 67094 27083 39950 01032 89096 26875
64590 02022 75092 26649 05670 01742 84066
26611 36910 01003 07140 26107=

The third more frequent error is F5 – "Incorrect or omitted group MMJJJ". There were 15 bulletins with this error. An example below with F4 and F5.

Example 8 (F4,F5):
CUTU10 LTAA 030830
CLIMAT TEMP **03004**
53004 17030 10230 73041 15150 00190 95067 26510 30540 05721
22066 26115 55980 07351 28068 26124 91300 09901 31079 26838
17250 00681 85083 26747 35570 00502 56087 26444 61280 00792

```
80090 26536 04680 21002 83393 26421 36660 40852 87585 27514=

53004 17030 20231 10068 15150 00130 88063 25808 30530 05701
24059 25113 55960 07351 31063 26023 91310 09921 48063 26635
17240 00651 93080 26246 35560 00532 73187 26841 61280 00802
90191 26434 04500 01112 84289 26920 36280 10982 92377 26911=

53004 17062 10170 73048 15020 00111 16132 26107 30400 05681
51252 26513 55870 07301 72158 27523 91280 09871 68266 27442
17190 00702 15573 27244 35510 00552 83481 27239 61230 00812
94387 26834 04490 11092 83486 26419 36230 31013 10579 27013=
```

Finally, the following deficiencies are also frequent:
- F4 (Repeating group MMJJJ in the same bulletin) – 12 bulletins;
- F2 (Repeating of the code name CLIMAT in the same bulletin) – 7 bulletins

4. *Summary of the deficiencies for the October 2004 SMM*

The SMM04A exercise was the second experience of the WMO Secretariat to analyse the deficiencies in the application of the WMO standards for the presentation of the CLIMAT and CLIMAT TEMP reports and bulletins. The results of the analyses will be compared with that of the SMM044 exercise. Then they will be distributed to the WMO Members and they will be again invited to consider implementing the corrections proposed as soon as possible.

4.1 *CLIMAT bulletins*

The summary of the deficiencies found in 76 CLIMAT bulletins received during the April 2004 SMM (SMM04A) is presented in Appendix 3. The abbreviated heading TTAAII CCCC YYGGgg and the country name identify the bulletins. The types of errors F1 to F20 (see Table 2) are shown for each of the bulletins in Appendix 3.

The most frequent error types were the F1 - "Misspelling or omitting the code name CLIMAT in the first line of the text" and the F5 - "Incorrect or omitted group MMJJJ". There were 35 and 39 CLIMAT bulletins with this kind of the deficiencies respectively. Two examples are given below.

Example 9 (F1,F5):
```
CSCN01 CWAO 051500 PAF
71434 111 10049 20111 30083037 401250041 5088 60164/16 7//////
8040200 9010330 222 0//// 1//// 2//// 3////// 4//////// 5/// 6///// 8///// 9/////
333 20300 31611 40600 8010000 444 0016005 1002411 2021105 3101129
4027207 5404107=
71842 111 19678 20145 30144040 401930094 5131 60162513 7//////
8000000 9000030 222 07100 19680 20150 30109015 401570061 5100 6009511
8//0000 9//00// 333 00400 31309 40401 8000000 444 0021803 1007416 2026803
3002628 4050006 5403514 60300=
71299 111 19898 20154 30137042 401930075 5120 60048106 7//////
8010300 9000330 222 07100 1//// 2//// 30105015 401550054 5/// 60094
13 7126 8//0101 9//00// 333 00200 20100 30604 40200 8020000
444 0021514 1005617 2025705 3101918 4011406 5404206=
```

Example 10 (F1,F5):
```
CSRE01 FMEE 042059
61976 111  10158 20174 30245015 402720224
              5233 60049612 7248/// 8250100 9080000
333        03000 31204 40100 8270000
444        0025530 1023517 2028530
              3020717 4012822 5116066 720618=
61980 111 20198 30223021 402610193 5194 60153613 7211///
8300000 9030000
333        02700 31306 40301 8260000
444        0023811 1020925 2028214
              3017626 4060823 5118016 720618=
67005 111  20157 30253019 402880225
              5251 60015604 7231/// 8300000 9050000
333        03001 30400 8100000
444        0026270 1024351 2030027
              3020960 4003473 5112051 720618=
_
```

The next frequent error is F9 – "Incorrect section group (ex. 111) or omitted" which was found in 11 CLIMAT bulletins. One example is given below.

Example 11 (F9):
CSBZ02 SBBR 040000
CLIMAT 09004
83064 NIL=
83096 10158 20165 30253/// 402800230 5239 60058212 7221/// 8000000 9000000= 83186 19611 20147 30236/// 402600192 5189 60008302 7236/// 8000000 9000000= 83208 NIL=
83229 10120 20180 30245/// 402820215 5242 60040105 7237/// 8000000 9000000= 83235 NIL=
83236 19626 20111 30266/// 403580189 5129 60003201 7/////// 8000000 9000000=
83242 19664 20160 30236/// 403040186 5166 60003102 7235/// 8000000 9000000= 83264 19687 20149 30264/// 403680191 5212 60019202 7015/// 8000000 9000000= 83288 19636 20119 30267/// 403440190 5158 60000000 7303/// 8000000 9000000= 83332 NIL=

The error types F3 – "Unexpected string of characters…" , F4 – "Repeating MMJJJ in the same bulletins" and F18 "The data are not presented according to code form FM 71" have been found in 8 bulletins each. Examples are given below.

Example 12 (F3 and F4):
CSMG01 FMMI 040600
09004 67009 111 10038 20158 30242062 402990199 5214 60010404 70296100 8000000 9000000=
09004 67019 NIL=
09004 67025 NIL=
09004 67027 111 10129 20150 30262055 403220213 5221 60005501 7316103 8000000 9000000 INFOR 01005 00522 01921 33824 17715 26899= INSOL 316,0
09004 67073 NIL=
09004 67083 111 18776 21547 30116013 402480128 5147 60005102 7237180 8000000 9000000=
09004 67095 111 10180 20167 402650182 5222 60119415 7226108 8000000 9000000 **INSOL 225,5 INFOR 15119** 011830 10914 27914 16012 22499=
09004 67143 NIL=

Example 13 (F18 - Data are not in the FM 71 code form):
CSPH01 RPMM 050000
CLIMAT 09004
98134 **9913 0100 0266 29818 0199/ ///// =**
98223 0096 0102 0283 31711 02713 226// =
98232 0009 0112 0281 25205 00100 ///// =
98233 0028 0099 0/// 19808 01372 189// =
98325 0085 0088 0/// 31710 01170 ///// =
98328 8521 0094 0189 20620 02261 30205 =
98330 0072 0104 0288 33613 0120/ ///// =
98429 0083 0107 0284 ///// ///// ///// =
98430 0057 0106 0281 29823 03012 ///// =
98444 0082 0101 0282 31710 01431 ///// =
98550 0086 0091 0279 31706 01133 21057 =

Finally the following deficiencies were also found:
- F2 (Repeating of the code name CLIMAT in the same bulletin) – 3 bulletins
- F8 (Station index Iiiii is not in the beginning of the line) – 6 bulletins
- F13 (There is a space inside a data group) - 3 bulletins
- F14 (Sign "End of Report" is omitted) – 1 bulletin
- F17 (CLIMAT report has been inserted into CLIMAT TEMP bulletin and vice versa) - 2 bulletins

4.2 CLIMAT TEMP bulletins

The summary of the deficiencies found in 84 CLIMAT TEMP bulletins received during the April 2004 SMM (SMM044) is presented in Appendix 4. The abbreviated heading TTAAII CCCC YYGGgg and the country name identify the bulletins. The types of errors F1 to F20 (see Table 2) are shown for each of the bulletins in Appendix 4.

The most frequent error type was F8 – "Station index IIiii is not in the beginning of the line or repeated or omitted". There were 49 CLIMAT TEMP bulletins with this type of deficiencies. See two examples below.

Example 14 (F8):
CUFR01 LFPW 051500
CLIMAT TEMP 59004 **07110 10101 37014 15420 11021 08150 26411 31370**
10261 53160 26915 57830 16271 32159 27419 94800 1893/ //156 27725

21390 1069/ //153 28624 39340 1111/ //156 29619 64550 1103/ //268
28913 08080 1073/ //142 29505 ////1 6//// //9// /////=

Example 15 (F8):
CUAA01 EUMS 010806
CLIMAT TEMP 59004 **89532 19787 11044 10560 07340**
49182 04016 24610 07810 63042 03006 48170 0911/
//035 31507 81220 0122/ //058 28216 05660 0203/
//085 26824 22650 0225/ //091 26631 46340 0243/
//094 26542 86640 0231/ //096 27068 16950 0164/
//096 27492=

The F1 type of error (Misspelling or omitting the code name CLIMAT or CLIMAT TEMP in the first line of the text) was found in 19 bulletins. As for the SMM044, this type of error is very frequent. See some examples below.

Example 15 (F1, F4):
 CUEG01 HECA 031100
CLIMET TEMP EGYPT
DATE 03/10/2004
59004 62378 39962 79158 15200 02042 93077 01607
31660 01214 36058 26305 58980 05364 38085 24514
97400 07873 24093 23927 25280 09803 04093 23527
43500 01002 79093 23127 68050 02022 69086 21719
10170 00893 38082 11211 ///// 0//// //9// /////=
59004 62403 19992 58171 15140 02352 98024 31102
31750 01314 03080 23013 59000 05464 46059 22707
97150 08173 28072 21012 24600 00192 83076 20217
42670 01482 21079 18121 66590 02631 99088 15418
07660 01313 00097 08222 39580 30723 17399 08635=
59004 62337 10082 07017 15270 12603 17193 36008
31850 11162 34194 23510 59070 15303 91192 17008
97090 18203 17197 18518 24360 10352 01197 19521
42270 11522 06197 20024 66240 12562 15197 18511
07500 11353 29197 07510 ///// ///// ///// /////=

Example 16 (F1, F8):
 CUIL01 BIRK 041100
CLIMAT **TEMPO** 59004 **04018**
39960 90029
13340 00120 45046 17210
28780 05590 90040 19710
54410 07101 02048 21115
90250 09491 22054 22327
16920 09902 98076 24023
62320 00023 07079 24417
07280 00283 01078 22511=

The next frequent error types are F2 (Repeating the code name CLIMAT or CLIMAT TEMP in the same bulletin), F4 (Repeating MMJJJ in the same bulletin) and F5 (Incorrect or omitted group MMJJJ) have been found in 12, 15 and 14 bulletins respectively. See some example below.

Example 17 (F2, F4):
CUTU10 LTAA 040830
CLIMAT TEMP 59004
17030 10181 74034 15420 11241 03128 01703 31460 10431 89246
28806 58000 16222 47178 25317 94980 18902 03190 25237 21950
10112 44297 25267 40380 10702 69298 25461 65580 21312 71296
25136 08510 20913 08229 28103 40840 20453 24315 01401=
CLIMAT TEMP 59004
17030 20192 34057 15490 01291 08038 29304 31540 00442 13039
26805 58080 06222 75087 24819 95030 08911 98094 24941 21980
00192 39197 25165 40380 00782 68097 25160 65560 01292 78096
24933 08480 00893 05025 20902 40850 00423 20011 22001=
CLIMAT TEMP 59004
17062 10121 86050 15290 01321 63124 05204 31330 00421 95128
26405 57820 06312 04170 26214 94660 09031 64578 25625 21390
00272 29794 24549 39790 00672 81497 24551 65170 11102 96695
24526 08350 10813 14237 20503 40720 10433 25332 06503=
CLIMAT TEMP 59004
17062 20122 42100 15310 01321 59212 10302 31350 00401 99236
23806 57860 06302 21268 25613 94680 09071 58779 25923 21380
00302 33992 24839 39730 00712 83998 24449 65080 11142 95796

11

```
24030 08200 20833 10344 20804 40600 30413 26309 30001=
```

Example 18 (F1, F5):
```
CUKO01 RKSL 042200
47090 NIL=
47102 39971 95039
15150 01311 36024 31003
31180 00381 90045 27407
57780 06132 57078 25422
95150 08502 32089 25154
22460 0010/ //188 25363
40780 0097/ //093 25560
65620 0165/ //094 25838
08270 0089/ //032 16903
40720 0036/ //089 09610=
47122 30081 99036
15030 01330 74011 16702
31080 00521 45052 25510
57810 05961 80085 25327
95510 08311 70091 25256
22910 00082 03091 25364
41220 01072 06094 25660
65970 11742 03195 26038
08500 30872 25343 16004
41030 20312 50290 08712=
```

It is necessary to highlight the very serious case of error F18 (The data are not presented according to code forms FM 71-XII or FM 75-XII) that was found in 6 CLIMAT TEMP bulletins during the SMM04A. Some bulletins have no data at all, like in the example 19.

Example 19:
```
CUDL01 EDZW 050000
CLIMAT TEMP 09004
10035 3//// ///// ////9 9//// //9// ///// ////9 9//// //9//
///// ////9 9//// //9// ///// ////9 9//// //9// ///// ////9
9//// //9// ///// ////9 9//// //9// ///// ////9 9//// //9//
///// ////9 9//// //9// ///// ////9 9//// //9// ///// ////9
9//// //9// ///// ////9 9//// //9// /////=
10200 3//// ///// ////9 9//// //9// ///// ////9 9//// //9//
///// ////9 9//// //9// ///// ////9 9//// //9// ///// ////9
9//// //9// ///// ////9 9//// //9// ///// ////9 9//// //9//
///// ////9 9//// //9// ///// ////9 9//// //9// ///// ////9
9//// //9// ///// ////9 9//// //9// /////=
10238 3//// ///// ////9 9//// //9// ///// ////9 9//// //9//
///// ////9 9//// //9// ///// ////9 9//// //9// ///// ////9
9//// //9// ///// ////9 9//// //9// ///// ////9 9//// //9//
///// ////9 9//// //9// ///// ////9 9//// //9// ///// ////9
9//// //9// ///// ////9 9//// //9// /////=
```

Finally, the following deficiencies were also found:
- F12 (No space between adjacent groups) – 1 bulletin
- F14 (Sign "End of Report" is omitted) – 6 bulletin
- F17 (CLIMAT report has been inserted into CLIMAT TEMP bulletin and vice versa) - 3 bulletins

5.   Action taken to improve the situation

The WMO Secretariat sent to Member countries a letter dated June 2004 after the SMM044. In the letter, the results of the SMM044 have been highlighted; the findings of the deficiencies in the application of the WMO standards for the presentation of the CLIMAT and CLIMAT TEMP reports have been attached for each Member country concerned. These findings of deficiencies have been produced as MS Access 2000 database reports from the Database CLIMON mentioned above. Examples of these CLIMON Database reports are given in Appendices 5 and 6. The main idea of the database reports was to help the Member countries in understanding their errors and showing them how the bulletins should be corrected. For this purposes, the Table A-4 and Table B-4 in the database reports have three sections:

- Bulletin as it was received by Toulouse,
- Bulletin with marked corrections,

- Bulletin corrected.

The types of errors F1 to F20 (see Table 2) found in the bulletin are given after the third section.

The Member countries were invited to consider implementing the corrections proposed as soon as possible. The secretariat received replies from 12 Member countries (Canada, Chile, Congo, Denmark, Fiji, Georgia, Germany, Latvia, Malawi, Russian Federation, Thailand and Turkey). The focal point persons have been designated on the matter of CLIMAT and CLIMAT TEMP bulletins. In the future, the close co-operation the WMO Secretariat with the CLIMAT / CLIMAT TEMP focal points are critical for improving the situation of the application of the WMO standards for presentation of the CLIMAT and CLIMAT TEMP bulletins.

6. *Results of the actions.*

Table 3 shows the comparison of the deficiencies found in the CLIMAT bulletins for the two SMM exercises.

Table 3
Comparison of the number of the CLIMAT bulletins with the deficiencies

	SMM044	SMM04A	DIFFERENCE		SMM044	SMM04A	DIFFERENCE
F1	11	35	+24	F11	13	0	-13
F2	8	3	-5	F12	0	0	0
F3	18	8	-10	F13	0	3	+3
F4	12	8	-4	F14	3	1	-2
F5	31	39	+8	F15	0	0	0
F6	0	0	0	F16	0	0	0
F7	1	0	-1	F17	0	2	+2
F8	11	6	-5	F18	16	8	-8
F9	1	11	+10	F19	4	0	-4
F10	0	0	0	F20	15	0	-15
			+17				-37

The comparison shows:
There is a decrease in the number of the CLIMAT bulletins with the following type of errors:
- F2 - Repeating the code name CLIMAT or CLIMAT TEMP in the same bulletin
- F3 - Unexpected string of characters such as PARTI", "PARTII".
- F4 - Repeating MMJJJ in the same bulletin
- F11 - Section group is incorrect, omitted or incorrectly placed
- F18 - The data are not presented according to code forms FM 71-XII or FM 75-XII
- F20 - BBB group should be added to the abbreviated heading.

There is an increase in the number of the CLIMAT bulletins with the following type of errors:
- F1 - Misspelling or omitting the code name CLIMAT or CLIMAT TEMP in the first line of the text
- F5 - Incorrect or omitted group MMJJJ
- F9 - Incorrect section group (ex.111) or repeated or omitted
- F13 - There is a space inside a group
- F17 - CLIMAT report has been inserted into CLIMAT TEMP bulletin and vice versa

Table 4 shows the comparison of the deficiencies of the CLIMAT TEMP bulletins for the two SMM exercises.

Table 4
Comparison of the number of the CLIMAT TEMP bulletins with the deficiencies

	SMM044	SMM04A	DIFFERENCE		SMM044	SMM04A	DIFFERENCE
F1	27	19	-8	F11	0	0	0
F2	7	12	+5	F12	0	1	+1
F3	17	5	-12	F13	1	0	-1
F4	12	15	+3	F14	1	6	+5
F5	15	14	-1	F15	0	0	0
F6	0	0	0	F16	0	0	0
F7	0	0	0	F17	2	3	+1
F8	0	49	+49	F18	4	6	+2
F9	0	0	0	F19	0	0	0
F10	1	0	-1	F20	4	0	-4
			+35				4

The comparison shows:
There is a decrease in the number of the CLIMAT TEMP bulletins with the following type of errors:
- F1 - Misspelling or omitting the code name CLIMAT or CLIMAT TEMP in the first line of the text
- F3 – Unexpected string of characters such as "PARTI", "PARTII".
- F20 - BBB group should be added to the abbreviated heading.

There is also an increase in the number of the CLIMAT bulletins with the following type of errors:
- F2 - Repeating the code name CLIMAT or CLIMAT TEMP in the same bulletin
- F8 - Station index IIiii is not in the beginning of the line or repeated or omitted (It is explain by the more strict checking of this error type during the SMM04a)
- F14 - Sign End of Report "=" is omitted.

It is difficult to provide clear reasons for the increase or decrease of the amount of the deficiencies in the application of the WMO standards for the presentation of the CLIMAT and CLIMAT TEMP reports. Probably, the improvements are resulting from the actions taken. Probably, the increase and the decrease of deficiencies are just some occasional fluctuations. However it is clear that, if the Member countries will get the comments from the monitoring centres on their CLIMAT and CLIMAT TEMP bulletins after each SMM and if they will take into account the error findings and proposed corrections of the deficiencies, the number of the CLIMAT and CLIMAT TEMP bulletins which respect the WMO standards will certainly increase.

Country	*TTAAii*	*CCCC*	*YYGGgg*	*F1*	*F2*	*F3*	*F4*	*F5*	*F6*	*F7*	*F8*	*F9*	*F10*	*F11*	*F12*	*F13*	*F14*	*F15*	*F16*	*F17*	*F18*	*F19*	*F20*
Algeria	CSAL21	DAMM	040800	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Algeria	CSAL21	DAMM	041100	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argentina	CSAG01	SABM	061400	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argentina	CSAA01	SAWB	061404	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argentina	CSAG01	SABM	061401	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argentina	CSAG02	SABM	061200	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argentina	CSAG02	SABM	061402	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argentina	CSAG02	SABM	061402	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Argentina	CSAG01	SABM	061401	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Argentina	CSAG02	SABM	061402	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Argentina	CSAG02	SABM	061402	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Argentina	CSAG02	SABM	061200	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Bahamas	CSBA01	MYNN	030000	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Barbados	CSBR01	TBPB	011425	0	-1	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	CSBZ02	SBBR	071200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	CSBZ01	SBBR	071200	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	051500	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook Islands	CSKU01	NCRG	022146	0	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0	-1	0	0
Dominican	CSDR01	MDSD	051530	0	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0	-1	0	0
Egypt	CSEG01	HECA	051145	0	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	CSEG01	HECA	030935	0	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAii	CCCC	YYGGgg	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Estonia	CSEO10	EEMH	010600	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Estonia	CSEO10	EEMH	010600	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Estonia	CSEO10	EEMH	010600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Estonia	CSEO10	EEMH	010600	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Estonia	CSEO10	EEMH	010600	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Ethiopia	CSET01	HAAB	021938	0	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0	-1	0	0
Georgia	CSGG10	UGGG	050907	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Germany	CSDL02	EDZW	040000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Germany	CSDL01	EDZW	040000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Germany	CSDL23	EDZW	040000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Germany	CSDL24	EDZW	040000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
Ghana	CSGH01	DGAA	051200	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indonesia	CSID01	WIIX	070300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iran, Islamic	CSIR01	OIII	152040	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jordan	CSJD01	OJAM	150600	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latvia	CSLV10	UMRR	010600	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Libyan Arab	CSLY01	HLLT	031100	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Luxembourg	CSBX01	ELLX	041210	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CSMG01	FMMD	041200	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Madagascar	CSMG01	FMMD	051200	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Marshall Islands	CSPQ40	PKWA	031348	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	-1	0	0
Marshall Islands	CSPQ40	PKWA	031337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Mongolia	CSMO01	MNUB	040600	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Mongolia	CSMO01	MNUB	010600	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Mongolia	CSMO01	MNUB	010600	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAii	CCCC	YYGGgg	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Mongolia	CSMO01	MNUB	040600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
New Caledonia	CSNC01	NWBB	051800	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Caledonia	CSNC01	NWBB	050600	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Caledonia	CSNC01	NWBB	051200	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nicaragua	CSNK01	MNMG	022229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Operated by Chile	CSAA01	SCEF	021256	0	0	-1	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Pakistan	CSPK01	OPKC	051800	0	-1	-1	-1	0	0	0	0	-1	0	0	0	0	-1	0	0	0	-1	0	0
Peru	CSPR01	SPIM	051500	0	0	0	0	-1	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0
Poland	CSPL01	SOWR	050837	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Poland	CSPL01	SOWR	050837	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Republic of Korea	CSKO01	RKSL	042200	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Republic of Korea	CSKO01	RKSL	030000	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reunion	CSRE15	FMEE	011200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian Federation	CSRS10	RUMS	010600	-1	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Russian Federation	CSRA10	RUNW	010610	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian Federation	CSRS10	RUMS	010500	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Russian Federation	CSRS10	RUMS	010500	-1	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Russian Federation	CSRA10	RUNW	010000	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Russian Federation	CSRA10	RUNW	010000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Russian Federation	CSRA10	RUHB	311800	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian Federation	CSRA10	RUNW	010610	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Samoa (American)	CSPQ40	NSTU	011154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Syrian Arab	CSSY01	OSDI	050700	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanzania, United	CSTN01	HTDA	020659	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Thailand	CSTH01	VTBB	050825	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAii	CCCC	YYGGgg	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Thailand	CSTH01	VTBB	050400	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thailand	CSTH01	VTBB	020100	-1	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Tunisia	CSTS01	DTTA	030915	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	-1
Tunisia	CSTS01	DTTA	030915	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuvalu	CSTV01	NGFU	050400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Tuvalu	CSTV01	NGFU	030600	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Tuvalu	CSTV01	NGFU	020300	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Zambia	CSZB01	FLLS	151256	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Zambia	CSZB01	FLLS	152034	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
Zambia	CSZB01	FLLS	152034	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0
		Total:		11	8	18	12	31	0	1	11	1	0	13	0	0	3	0	0	0	16	4	15

Country	TTAAII	CCCC	YYGGGG	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Germany	CUAA01	EUMS	042225	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Algeria	CUAL01	DAMM	030900	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congo	CUAM01	FCBB	050000	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congo	CUAM01	FCBB	051200	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congo	CUAM01	FCBB	051800	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bangladesh	CUBW01	VGDC	030524	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	CUBZ02	SBBR	071200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Brazil	CUBZ02	SBBR	071300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Brazil	CUBZ02	SBBR	071300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Congo	CUCG01	FCBB	050600	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congo	CUCG01	FCBB	051200	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congo	CUCG01	FCBB	051800	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chile	CUCH01	SCSC	051800	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN01	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN02	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN03	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN04	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN05	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN06	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN07	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN08	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Canada	CUCN09	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN10	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CUCN11	CWAO	010000	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyprus	CUCY01	LCLK	040800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	CUEG01	HECA	031145	0	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	CUEG01	HECA	051145	0	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Arab	CUER10	OMAA	030700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0
Denmark	CUFA01	EKMI	011315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fiji	CUFJ01	NFFN	020316	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United	CUGI01	EGRR	010705	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Greenland	CUGL01	BGSF	051530	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Greenland	CUGL02	BGSF	051530	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Greece	CUGR01	LGAT	022020	0	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
India	CUIN01	DEMS	051200	-1	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	050000	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jordan	CUJD01	OJAM	150600	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan	CUJP01	RJTD	050000	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CUKO01	RKSL	040600	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CUKO01	RKSL	042200	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Libyan Arab	CULY01	HLLT	031045	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	-1	0	0	0
Mauritius	CUMA01	FIMP	011200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CUMG01	FMMI	041200	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CUMG01	FMMI	051200	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New	CUNC01	NWBB	050000	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
New	CUNC01	NWBB	050600	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New	CUNC01	NWBB	051200	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New	CUNC01	NWBB	051800	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Netherlands	CUNU01	TNCC	011600	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	050600	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	051800	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poland	CUPL01	SOWR	041300	0	-1	0	-1	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0
Peru	CUPR01	SPIM	022100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turkey	CUTU10	LTAA	021142	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turkey	CUTU10	LTAA	030830	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuvalu	CUTV01	NGFU	040400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
United	CUUK01	EGRR	010100	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United States	CUUS02	KWBC	011911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United	CUUK01	EGRR	010100	0	0	0	0	-1	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	-1
Peru	CUPR01	SPIM	022100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Peru	CUPR01	SPIM	022100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
Chile	CUCH01	SCSC	051800	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
		Total:		27	7	17	12	15	0	0	0	0	1	0	0	1	1	0	0	2	4	0	4

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Australia	CSNG01	AMMC	061200		0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahamas	CSBA01	MYNN	041808		0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0
Barbados	CSBR01	TBPB	051815		0	-1	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Bosnia and	CSQB01	LQSM	040900		-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	CSBZ01	SBBR	040000	RRA	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
Brazil	CSBZ01	SBBR	050000	CCA	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
Brazil	CSBZ02	SBBR	040000		0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
Bulgaria	CSBU01	LZSO	040600		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	051500	PAF	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	051500	PAB	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	051500	PAC	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	051500	PAE	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	051500	PZH	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	051500	PAG	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PAG	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PZB	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PZH	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PAB	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PAC	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PAD	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Canada	CSCN01	CWAO	051500	PAD	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PAE	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	CSCN01	CWAO	121900	PAF	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook Islands	CSKU01	NCRG	041905		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Egypt	CSEG01	HECA	031100		-1	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethiopia	CSET01	HAAB	021000		0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gabon	CSGO01	FOOL	050300	RRA	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Georgia	CSGG10	UGGG	040830		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Germany	CSAA01	EUMS	011225		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honduras	CSCA01	MHTG	082003		0	0	0	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
India	CSIN02	DEMS	051200		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indonesia	CSID01	WIIX	070300		0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indonesia	CSID01	WIIX	080300		0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CSMG01	FMMI	051200		-1	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Madagascar	CSMG01	FMMI	040000		-1	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CSMG01	FMMI	041800		-1	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Madagascar	CSMG01	FMMI	040600		-1	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CSMG01	FMMI	040600	RRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0
Madagascar	CSMG01	FMMI	041200		-1	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marshall Islands	CSPQ40	PKWA	091013		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Mexico	CSMX01	MXBA	042341		0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
New Caledonia	CSNC01	NWBB	051800	CCA	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nicaragua	CSNK01	MNMG	051844		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Operated by	CSAA01	SCEF	021319		-1	0	0	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Pakistan	CSPK01	OPKC	030600		0	0	0	0	-1	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0
Pakistan	CSPK01	OPKC	031800		0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0
Peru	CSPR01	SPIM	042125		0	0	0	0	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0
Philippines	CSPH01	RPMM	050000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Qatar	CSQT10	OTBD	050630		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CSKO01	RKSL	040600		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CSKO01	RKSL	042200		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CSRM10	LUKK	010700		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CSRM10	LUKK	010700		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reunion	CSRE01	FMEE	042059		-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA09	RUHB	010830		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA07	RUNW	010000		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRS04	RUMS	300800	RRC	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRS04	RUMS	010300	RRC	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA01	RUHB	302100	RRE	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA04	RUNW	010000		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA09	RUHB	010000		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA01	RUNW	010000	CCA	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRS04	RUMS	300800	CCE	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA08	RUHB	010830		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA08	RUNW	010830		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russian	CSRA03	RUNW	050224	RTD	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Serbia and	CSYG01	LYBM	050900		0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
Sudan	CSSU01	HSSS	010922		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Sudan	CSSU01	HSSS	010813		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syrian Arab	CSSY01	OSDI	050530		0	0	0	0	-1	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0
Thailand	CSTH01	VTBB	070000	RRA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0
Turkmenistan	CSTR10	UTAA	010830		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuvalu	CSTV01	NGFU	130000		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
Ukraine	CSUR10	UKMS	010800	RRA	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uzbekistan	CSUZ10	UTTW	010900		0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
Zambia	CSZB01	FLLS	151008		0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0
			Total:		35	3	8	8	39	0	0	6	11	0	0	0	3	1	0	0	2	8	0	0

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Bangladesh	CUBW01	VGDC	060857		-1	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Belarus	CUBY01	UMMN	050900		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	CUBZ01	SBBR	012100		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brunei	CUBD01	WBSB	050000		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Congo	CUCG01	FCBB	030600		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyprus	CUCY01	LCLK	031330		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Cyprus	CUCY01	LCLK	040800		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	CUEG01	HECA	031100		-1	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	CUEG01	HECA	041145		-1	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	CUEG01	HECA	051145		-1	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fiji	CUFJ01	NFFN	050310		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0
Finland	CUFI11	EFKL	011910		0	0	0	0	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0
Finland	CUFI12	EFKL	010500		0	0	0	0	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0
France	CUFR01	LFPW	051500		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
France	CUFR04	LFPW	041200	RRA	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
France	CUFR05	LFPW	060900		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
France	CUFR07	LFPW	010900	RRA	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
French	CUPF03	NTAA	011805		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
French	CUPF04	NTAA	011800		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
French	CUPF05	NTAA	011708		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Germany	CUAA01	EUMS	010806		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Germany	CUAA01	EUMS	011025		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Germany	CUAA01	EUMS	020806		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Germany	CUAA01	EUMS	030806		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Germany	CUAA01	EUMS	080540		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Germany	CUDL01	EDZW	050000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	
Germany	CUDL01	EDZW	050000	CCA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	
Germany	CUDL02	EDZW	040000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	
Germany	CUDL02	EDZW	040000	CCA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	
Germany	CUDL02	EDZW	050000	CCA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	
Germany	CUDL02	EDZW	050000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	
Greece	CUGR01	LGAT	031300		0	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iceland	CUIL01	BIRK	041100		-1	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Iceland	CUIL01	BIRK	051100		-1	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Iran, Islamic	CUIR01	OIII	040600		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	030000		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0
Italy	CUIY01	LIIB	040619		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0
Italy	CUIY01	LIIB	040800	RRC	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	040800		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	040800	RRA	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	040800	RRB	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	040800	RRF	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	040800	RRD	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Italy	CUIY01	LIIB	040800	RRE	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Japan	CUJP01	RJTD	050000		0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jordan	CUJD01	OJAM	040750		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Madagascar	CUMG01	FMMD	040600	RRA	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CUMG01	FMMI	040000	RRA	0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CUMG01	FMMI	040600		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CUMG01	FMMI	041200		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CUMG01	FMMI	041800		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Madagascar	CUMG01	FMMI	051200		0	-1	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Mauritius	CUMA01	FIMP	041200		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Morocco	CUMC01	GMMC	041100		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Netherlands	CUNU01	TNCC	011000		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Netherlands	CUNU01	TNCC	011000		-1	-1	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
New Caledonia	CUNC01	NWBB	050600		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Caledonia	CUNC01	NWBB	051800	CCA	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norway	CUNO11	ENMI	041100		-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	030600	CCA	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	030600		-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	031800		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	031800	CCA	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	040600		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	CUPK01	OPKC	040654		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peru	CUPR01	SPIM	011500		0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0
Philippines	CUPH01	RPMM	050000		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CUKO01	RKSL	040600		-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Republic of	CUKO01	RKSL	042200		-1	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reunion	CURE01	FMEE	011200		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0
Reunion	CURE01	FMEE	041200		0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0

Country	TTAAII	CCCC	YYGGGG	BBB	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
Reunion	CURE02	FMEE	010300	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
Reunion	CURE03	FMEE	011200	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
Senegal	CUAO02	GOOY	040000	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senegal	CUAO02	GOOY	041331	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senegal	CUAO02	GOOY	041814	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Singapore	CUSR01	WSSS	050000	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
Singapore	CUSR01	WSSS	051200	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
Slovakia	CUSQ10	LZIB	040800	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa	CUZA01	FAPR	081400	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turkey	CUTU10	LTAA	030830	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turkey	CUTU10	LTAA	040830	0	-1	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Arab	CUER10	OMAA	020730	0	0	0	0	0	0	0	-1	0	0	0	0	0	-1	0	0	-1	0	0	0	0
United	CUST01	EGRR	081400	0	0	0	0	0	0	0	-1	0	0	0	-1	0	0	0	0	0	0	0	0	0
Total:				19	12	5	15	14	0	0	49	0	0	0	1	0	6	0	0	3	6	0	0	

Appendix 5 – Table A-4, Samples of the errors found in the CLIMAT bulletins

Appendix 6 – Table B-4, Samples of the errors found in the CLIMAT TEMP bulletins.

Appendix 5 – Table A-4, Samples of the errors found in the CLIMAT bulletins

Table A-4 - SMM04A: Samples of the errors found in the CLIMAT bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible

Country	Compiling Centre	TTAAII	CCCC	YYGGG	BBB	CL	MMJJJ	Key
Canada	Montreal (Canadian	CSCN01	CWAO	051500	PAF	CLIMAT	71434	3396

Bulletin as it was received by Toulouse
```
CSCN01 CWAO 051500 PAF
71434 111 10049 20111 30083037 401250041 5088 60164/16 7//////
           8040200 9010330
       222 0//// 1//// 2//// 3/////// 4//////// 5/// 6////// 8//
       333 20300 31611 40600 8010000
       444 0016005 1002411 2021105 3101129 4027207 5404107=
71842 111 19678 20145 30144040 401930094 5131 60162513 7//////
           8000000 9000030
       222 07100 19680 20150 30109015 401570061 5100 6009511 8//
```

Bulletin with marked corrections
```
CSCN01 CWAO 051500 PAF
CLIMAT 09004
71434 111 10049 20111 30083037 401250041 5088 60164/16 7//////
           8040200 9010330
       222 0//// 1//// 2//// 3/////// 4//////// 5/// 6////// 8//
       333 20300 31611 40600 8010000
       444 0016005 1002411 2021105 3101129 4027207 5404107=
71842 111 19678 20145 30144040 401930094 5131 60162513 7//////
           8000000 9000030
       222 07100 19680 20150 30109015 401570061 5100 6009511 8//00
```

Bulletin corrected
```
CSCN01 CWAO 051500 PAF
CLIMAT 09004
71434 111 10049 20111 30083037 401250041 5088 60164/16 7//////
           8040200 9010330
   222 0//// 1//// 2//// 3/////// 4//////// 5/// 6////// 8/////
                           9//////
       333 20300 31611 40600 8010000
       444 0016005 1002411 2021105 3101129 4027207 5404107=
71842 111 19678 20145 30144040 401930094 5131 60162513 7//////
           8000000 9000030
```

☑ F1　☐ F2　☐ F3　☐ F4　☑ F5　☐ F6　☐ F7　☐ F8　☐ F9　☐ F10

☐ F11　☐ F12　☐ F13　☐ F14　☐ F15　☐ F16　☐ F17　☐ F18　☐ F19　☐ F20

Table A-4 - SMM04A: Samples of the errors found in the CLIMAT bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible

Country	Compiling Centre	TTAAII	CCCC	YYGGG	BBB	CL	MMJJJ	Key
Ethiopia	Addis Ababa	CSET01	HAAB	021000		CLIMAT	09004	575

Bulletin as it was received by Toulouse
```
CSET01 HAAB 021000
HAAB
SECTION 0 CLIMAT 09004 63450
SECTION 1 111 17731 2110 30165002 402220109 5129 60122217
SECTION 2 222 06695 30157002 402160099 60139//
SECTION 3 333 0010031708 40400
SECTION 4 444 0018519 1014501 2025019 3009029 40226// 710606=
```

Bulletin with marked corrections
```
CSET01 HAAB 021000
HAAB
SECTION 0 CLIMAT 09004
63450
SECTION 1 111 17731 2110 30165002 402220109 5129 60122217
SECTION 2 222 06695 30157002 402160099 60139//
SECTION 3 333 0010031708 40400
SECTION 4 444 0018519 1014501 2025019 3009029 40226//
710606=
```

Bulletin corrected
```
CSET01 HAAB 021000
CLIMAT 09004
63450 111 17731 2110 30165002 402220109 5129 60122217 222
06695 30157002 402160099 60139//
333 0010031708 40400
444 0018519 1014501 2025019 3009029 40226// 710606= _
```

☐ F1 ☐ F2 ☑ F3 ☐ F4 ☐ F5 ☐ F6 ☐ F7 ☐ F8 ☐ F9

☐ F11 ☐ F12 ☐ F13 ☐ F14 ☐ F15 ☐ F16 ☐ F17 ☐ F18 ☐ F19 ☐ F20

Table A-4 - SMM04A: Samples of the errors found in the CLIMAT bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible

Country	Compiling Centre	TTAAII	CCCC	YYGGG	BBB	CL	MMJJJ		Key
Madagascar	Antananarivo/Ivato	CSMG01	FMMI	051200		CLIMAT	09004		3296

Bulletin as it was received by Toulouse

```
CSMG01 FMMI 051200
09004 67009 111 10038 20158 30242062 402990199 5214 60010404
70296100 8000000 9000000=
09004 67019 NIL=
09004 67025 NIL=
09004 67027 111 10129 20150 30262055 403220213 5221 60005501
7316103 8000000 9000000 INFOR 01005 00522 01921 33824 17715
26899= INSOL 316,0
09004 67073 NIL=
```

Bulletin with marked corrections

```
CSMG01 FMMI 051200
CLIMAT 09004
67009 111 10038 20158 30242062 402990199 5214 60010404 70296100
8000000 9000000=
09004 67019 NIL=
09004 67025 NIL=
09004 67027 111 10129 20150 30262055 403220213 5221 60005501
7316103 8000000 9000000 INFOR 01005 00522 01921 33824 17715
26899= INSOL 316,0
09004 67073 NIL=
```

Bulletin corrected

```
CSMG01 FMMI 051200
CLIMAT 09004
67009 111 10038 20158 30242062 402990199 5214 60010404
70296100 8000000 9000000=
67019 NIL=
67025 NIL=
67027 111 10129 20150 30262055 403220213 5221 60005501
7316103 8000000 9000000= 67073 NIL=
67083 111 18776 21547 30116013 402480128 5147 60005102
7237180 8000000 9000000=
```

☑ F1 ☐ F2 ☑ F3 ☑ F4 ☐ F5 F6 ☐ F7 ☐ F8 ☐ F9 ☐ F10

☐ F11 ☐ F12 ☐ F13 ☐ F14 ☐ F15 ☐ F16 ☐ F17 ☑ F18 ☐ F19 ☐ F20

Table A-4 - SMM04A: Samples of the errors found in the CLIMAT bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible

Country	Compiling Centre	TTAAII	CCCC	YYGGG	BBB	CL	MMJJJ	Key
Republic of Korea	Seoul (City)	CSKO01	RKSL	042200		CLIMAT	09004	2839

Bulletin as it was received by Toulouse

```
CSKO01 RKSL 040600
CLIMAT 09004 47101
111 10064 20152 30204022 402650157 5181 60194409 7177098 800000
9000000 222 07100 10048 20136 30189010 402510143 5172 6014407 7
8000000 9000000 333 02401 10000 20000 30907 40600 50000 60000
70000 8000000 9020207 444 0024301 1015520 2030205 3010622 40440
5109028 60100 72151500=
CLIMAT 09004 47105
111 10124 20154 30206024 402450176 5182 60181312 7138086 800000
```

Bulletin with marked corrections

```
CSKO01 RKSL 040600
CLIMAT 09004
47101 111 10064 20152 30204022 402650157 5181 60194409 7177098
8000000 9000000 222 07100 10048 20136 30189010 402510143 5172
6014407 7181 8000000 9000000 333 02401 10000 20000 30907 40600
50000 60000 70000 8000000 9020207 444 0024301 1015520 2030205
3010622 4044011 5109028 60100 72151500=
CLIMAT 09004 47105 111 10124 20154 30206024 402450176 5182
60181312 7138086 8000000 9000000 222 07100 10107 20139 30201009
402450163 5176 6020708 7162 8000000 9000000 333 01302 10000 200
```

Bulletin corrected

```
CSKO01 RKSL 040600
CLIMAT 09004
47101 111 10064 20152 30204022 402650157 5181 60194409 7177098
8000000 9000000 222 07100 10048 20136 30189010 402510143 5172
6014407 7181 8000000 9000000 333 02401 10000 20000 30907 40600
50000 60000 70000 8000000 9020207 444 0024301 1015520 2030205
3010622 4044011 5109028 60100 72151500=
47105 111 10124 20154 30206024 402450176 5182 60181312 7138086
8000000 9000000 222 07100 10107 20139 30201009 402450163 5176
6020708 7162 8000000 9000000 333 01302 10000 20000 31210 40501
```

☑ F2　☐ F3　☑ F4　☐ F5　☐ F6　☐ F7　☑ F8　☐ F9　☐ F10

☐ F12　☐ F13　☐ F14　☐ F15　☐ F16　☐ F17　☐ F18　☐ F19　☐ F20

Appendix 6 – Table B-4, Samples of the errors found in the CLIMAT TEMP bulletins.

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Bangladesh	Dacca/Tejgaon (DCA)	CUBW01	VGDC	060857		CLIMAT TEMP	59004	815

Bulletin as it was received by Toulouse
```
CUBW01 VGDC 060857
CLIMATE TEMPS. OF R.S DHAKA SEPTEMBER/2004:
-----------------------------------------------
59004   41923   10062   62012
14851   51880   34964   18207
31311   51070   40958   17806
58671   55400   42939   15604
97251   57410   64956   11608
25001   5012/   //965   07915
43071   5161/   //977   07120
66771   5286/   //991   08923
07441   5142/   //997   08526
```

Bulletin with marked corrections
```
CUBW01 VGDC 060857
  CLIMATE TEMPS.  OF R.S DHAKA SEPTEMBER/2004:

CLIMAT TEMP 59004
59004   41923   10062   62012 ·
14851   51880   34964   18207
31311   51070   40958   17806
58671   55400   42939   15604
97251   57410   64956   11608
25001   5012/   //965   07915
43071   5161/   //977   07120
66771   5286/   //991   08923
```

Bulletin corrected
```
CUBW01 VGDC 060857
CLIMAT TEMP 59004
41923   10062   62012
14851   51880   34964   18207
31311   51070   40958   17806
58671   55400   42939   15604
97251   57410   64956   11608
25001   5012/   //965   07915
43071   5161/   //977   07120
66771   5286/   //991   08923
07441   5142/   //997   08526
39331   6073/   //998   08335=
```

☑ F1 ☐ F2 ☑ F3 ☐ F4 ☑ F5 ☐ F6 ☐ F7 ☐ F8 ☐ F9 ☐ F10

☐ F11 ☐ F12 ☐ F13 ☐ F14 ☐ F15 ☐ F16 ☐ F17 ☐ F18 ☐ F19 ☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Brazil	Brasilia/Intl., DF	CUBZ01	SBBR	012100		CLIMAT TEMP	82193	130

Bulletin as it was received by Toulouse

```
CUBZ01 SBBR 012100
CLIMAT TEMP
82193 20112 74028 15270 31900 57398 11217
30820 96399
11419 58730 35592 33388 08014 96900 38112
```

Bulletin with marked corrections

```
CUBZ01 SBBR 012100
CLIMAT TEMP 09004
82193 20112 74028 15270 31900 57398 11217
30820 96399
11419 58730 35592 33388 08014 96900 38112
```

Bulletin corrected

```
CUBZ01 SBBR 012100
CLIMAT TEMP 09004
82193 20112 74028 15270 31900 57398 11217
30820 96399
11419 58730 35592 33388 08014 96900 38112
```

☐ F1   ☐ F2   ☐ F3   ☐ F4   ☑ F5   ☐ F6   ☐ F7   ☐ F8   ☐ F9   ☐ F10

☐ F11   ☐ F12   ☐ F13   ☐ F14   ☐ F15   ☐ F16   ☐ F17   ☐ F18   ☐ F19   ☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Cyprus	Larnaca	CUCY01	LCLK	040800		CLIMAT TEMP	59004	383

Bulletin as it was received by Toulouse

```
CUCY01 LCLK 040800
CLIMAT TEMP 59004 17607
29933 33220
15240 01801 65035 35502
31520 00843 80058 25706
58440 05873 81092 24319
95980 08443 35097 24552
23370 00063 10098 24662
41630 01162 86096 24355
66110 02062 68093 23327
08000 21073 07078 10110
///// ///// ///// /////=
```

Bulletin with marked corrections

```
CUCY01 LCLK 040800
CLIMAT TEMP 59004
17607 29933 33220
15240 01801 65035 35502
31520 00843 80058 25706
58440 05873 81092 24319
95980 08443 35097 24552
23370 00063 10098 24662
41630 01162 86096 24355
66110 02062 68093 23327
08000 21073 07078 10110
///// ///// ///// /////=
```

Bulletin corrected

```
CUCY01 LCLK 040800
CLIMAT TEMP 59004
17607 29933 33220
15240 01801 65035 35502
31520 00843 80058 25706
58440 05873 81092 24319
95980 08443 35097 24552
23370 00063 10098 24662
41630 01162 86096 24355
66110 02062 68093 23327
08000 21073 07078 10110
///// ///// ///// /////=
```

☐ F1　F2　☐ F3　☐ F4　☐ F5　☐ F6　☐ F7　☑ F8　☐ F9　☐ F10

☐ F11　☐ F12　☐ F13　☐ F14　☐ F15　☐ F16　☐ F17　☐ F18　☐ F19　☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Egypt	Cairo (Le Caire)	CUEG01	HECA	051145		CLIMAT TEMP	59004	735

Bulletin as it was received by Toulouse

CUEG01 HECA 051145

CLIMET TEMP EGYPT

DATE 05/10/2004

59004 62378 39962 79158 15200 02042 93077 01607

31660 01214 36058 26305 58980 05364 38085 24514

97400 07873 24093 23927 25280 09803 04093 23527

43500 01002 79093 23127 68050 02022 69086 21719

10170 00893 38082 11211 ///// 0//// //9// /////=

59004 62403 19992 58171 15140 02352 98024 31102

Bulletin with marked corrections

CUEG01 HECA 051145

CLIMAT ~~CLIMET~~ TEMP 59004 ~~EGYPT~~

~~DATE 05/10/2004~~

~~59004~~ 62378 39962 79158 15200 02042 93077 01607

31660 01214 36058 26305 58980 05364 38085 24514

97400 07873 24093 23927 25280 09803 04093 23527

43500 01002 79093 23127 68050 02022 69086 21719

10170 00893 38082 11211 ///// 0//// //9// /////=

~~59004~~ 62403 19992 58171 15140 02352 98024 31102

31750 01314 03080 23013 59000 05464 46059 22707

Bulletin corrected

CUEG01 HECA 051145

CLIMAT TEMP 59004

62378 39962 79158 15200 02042 93077 01607

31660 01214 36058 26305 58980 05364 38085 24514

97400 07873 24093 23927 25280 09803 04093 23527

43500 01002 79093 23127 68050 02022 69086 21719

10170 00893 38082 11211 ///// 0//// //9// /////=

62403 19992 58171 15140 02352 98024 31102

31750 01314 03080 23013 59000 05464 46059 22707

97150 08173 28072 21012 24600 00192 83076 20217

☐ F2 ☑ F3 ☑ F4 ☑ F5 ☐ F6 ☐ F7 ☐ F8 ☐ F9 ☐ F10

☐ F12 ☐ F13 ☐ F14 ☐ F15 ☐ F16 ☐ F17 ☐ F18 ☐ F19 ☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Fiji	Nadi Intl.	CUFJ01	NFFN	050310		CLIMAT TEMP	09004	657

Bulletin as it was received by Toulouse

```
CUFJ01 NFFN 050310
CLIMAT TEMP 09004
91650 111 1//// 20121 30269009 402990243 5292
          60325520 7182102 8300030 9303030
      333 03023 1//// 2//// 32113 41002
      444 0029726 1024929 2031804 3020912 4058608 5//////
          6//// 712121 =
91652 111 1//// 2//// 3/////// 402910218 5250
          60094209 7////// 8////// 9//////
      333 03010 1//// 2//// 31004 40400
      444 0////// 1////// 2031017 3019726 4028317 5//////
          6//// 7///// =
```

Bulletin with marked corrections

CLIMAT report has been inserted into CLIMAT TEMP bulletin
```
CUFJ01 NFFN 050310
CLIMAT TEMP 09004
91650 111 1//// 20121 30269009 402990243 5292
          60325520 7182102 8300030 9303030
      333 03023 1//// 2//// 32113 41002
      444 0029726 1024929 2031804 3020912 4058608 5//////
          6//// 712121 =
91652 111 1//// 2//// 3/////// 402910218 5250
          60094209 7////// 8////// 9//////
      333 03010 1//// 2//// 31004 40400
      444 0////// 1////// 2031017 3019726 4028317 5//////
          6//// 7///// =
```

Bulletin corrected

☐ F1   ☐ F2   ☐ F3   ☐ F4   ☐ F5   ☐ F6   ☐ F7   ☐ F8   ☐ F9   ☐

☐ F11   F12   ☐ F13   ☐ F14   ☐ F15   ☐ F16   ☑ F17   ☐ F18   ☐ F19   ☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Germany	Offenbach (Met. COM Centre)	CUDL02	EDZW	040000	CCA	CLIMAT TEMP	09004	441

<u>**Bulletin as it was received by Toulouse**</u>
```
CUDL01 EDZW 040000
CLIMAT TEMP 09004
10035 3///// ////// ////9 9///// //9// ////// ////9 9///// //9//
///// ////9 9///// //9// ////// ////9 9///// //9// ////// ////9
9///// //9// ////// ////9 9///// //9// ////// ////9 9///// //9//
///// ////9 9///// //9// ////// ////9 9///// //9// ////// ////9
9///// //9// ////// ////9 9///// //9// /////=
10200 3///// ////// ////9 9///// //9// ////// ////9 9///// //9//
///// ////9 9///// //9// ////// ////9 9///// //9// ////// ////9
9///// //9// ////// ////9 9///// //9// ////// ////9 9///// //9//
```

<u>**Bulletin with marked corrections**</u>
<u>**No data in the bulletin**</u>
```
CUDL01 EDZW 040000
CLIMAT TEMP 09004
10035 Nil= 3//// //// ///9 9//// //9// //// ///9 9//// //9//
//// ///9 9//// //9// //// ///9 9//// //9// //// ///9
9//// //9// //// ///9 9//// //9// //// ///9 9//// //9//
//// ///9 9//// //9// //// ///9 9//// //9// //// ///9
9//// //9// //// ///9 9//// //9// ////=
10200 Nil= 3//// //// ///9 9//// //9// //// ///9 9//// //9//
//// ///9 9//// //9// //// ///9 9//// //9// //// ///9
```

<u>*Bulletin corrected*</u>
```
CUDL01 EDZW 040000
CLIMAT TEMP 09004
10035 Nil=
10200 Nil=
10238 Nil=
```

☐ F1   ☐ F2   ☐ F3   ☐ F4   ☐ F5   ☐ F6   ☐ F7   ☐ F8   ☐ F9   ☐ F10

☐ F11 ☐ F12 ☐ F13 ☐ F14 ☐ F15 ☐ F16 ☐ F17 ☑ F18   F19   F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Italy	Roma (MET COM Centre)	CUIY01	LIIB	030000		CLIMAT TEMP	59004	172

Bulletin as it was received by Toulouse

CUIY01 LIIB 030000

CLIMAT TEMP 59004 16560

10182 09035 15510 01481 01052 32407 31640 00441 12071 31612

58160 06281 74073 32018 95070 09011 35055 32422 21610 00691

29064 31424 39720 10982 02172 30019 64940 11112 55179 27614

08260 30733 01323 11002 40750 40393 13473 09908

CLIMAT TEMP 59004 16560

20182 65101 15550 01411 04554 31507 31650 00441 39265 31611

Bulletin with marked corrections

CUIY01 LIIB 030000

CLIMAT TEMP 59004

16560 10182 09035 15510 01481 01052 32407 31640 00441 12071

31612 58160 06281 74073 32018 95070 09011 35055 32422 21610

00691 29064 31424 39720 10982 02172 30019 64940 11112 55179 27614

08260 30733 01323 11002 40750 40393 13473 09908=

~~CLIMAT TEMP 59004~~ 16560 20182 65101 15550 01411 04554 31507 31650 00441 39265

31611 58160 06271 71267 32516 95060 09031 37362 32122 21580

Bulletin corrected

Attention a problem: The bulletin includes several reports from the same station. The data have been calculated / averaged for different time of observation: g=1, g=2, g=3

CUIY01 LIIB 030000

CLIMAT TEMP 59004

16560 10182 09035 15510 01481 01052 32407 31640 00441 12071

31612 58160 06281 74073 32018 95070 09011 35055 32422 21610

00691 29064 31424 39720 10982 02172 30019 64940 11112 55179

27614 08260 30733 01323 11002 40750 40393 13473 09908=

☐ F1	☑ F2	☐ F3	☑ F4	☐ F5	☐ F6	☐ F7	☑ F8	☐ F9	☐ F10
☐ F11	☐ F12	☐ F13	☑ F14	☐ F15	☐ F16	☐ F17	☐ F18	☐ F19	☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	*Compiling Centre*	*TTAAII*	*CCCC*	*YYGGGG*	*BBB*	*CT*	*MMJJJ*	*Key*
Pakistan	Karachi/Karachi Civil	CUPK01	OPKC	030600		CLIMAT TEMP	58004	187

Bulletin as it was received by Toulouse

```
CUPK01 OPKC 030600
CLIMATE TEMPS 58004
41640    NIL=
41594    NIL=
41661    NIL=
41675    NIL=
41530    NIL=
41780    NIL=
```

Bulletin with marked corrections

```
CUPK01 OPKC 030600
CLIMATE TEMPS 59004 58004
41640    NIL=
41594    NIL=
41661    NIL=
41675    NIL=
41530    NIL=
41780    NIL=
```

⊢

Bulletin corrected

```
CUPK01 OPKC 030600
CLIMAT TEMP 59004
41640    NIL=
41594    NIL=
41661    NIL=
41675    NIL=
41530    NIL=
41780    NIL=
```

⊢

☑ F1 ☐ F2 ☐ F3 ☐ F4 ☑ F5 ☐ F6 ☐ F7 ☐ F8 ☐ F9 ☐ F10

☐ F11 ☐ F12 ☐ F13 ☐ F14 ☐ F15 ☐ F16 ☐ F17 ☐ F18 ☐ F19 ☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Republic of Korea	Seoul (City)	CUKO01	RKSL	042200		CLIMAT TEMP	47090	633

<u>**Bulletin as it was received by Toulouse**</u>

```
CUKO01 RKSL 042200
47090 NIL=
47102 39971 95039
15150 01311 36024 31003
31180 00381 90045 27407
57780 06132 57078 25422
95150 08502 32089 25154
22460 0010/ //188 25363
40780 0097/ //093 25560
65620 0165/ //094 25838
08270 0089/ //032 16903
40720 0036/ //089 09610=
```

<u>**Bulletin with marked corrections**</u>

```
CUKO01 RKSL 042200
CLIMAT TEMP 09004
47090 NIL=
47102 39971 95039
15150 01311 36024 31003
31180 00381 90045 27407
57780 06132 57078 25422
95150 08502 32089 25154
22460 0010/ //188 25363
40780 0097/ //093 25560
65620 0165/ //094 25838
08270 0089/ //032 16903
```

<u>**Bulletin corrected**</u>

```
CUKO01 RKSL 042200
CLIMAT TEMP 09004
47090 NIL=
47102 39971 95039
15150 01311 36024 31003
31180 00381 90045 27407
57780 06132 57078 25422
95150 08502 32089 25154
22460 0010/ //188 25363
40780 0097/ //093 25560
65620 0165/ //094 25838
08270 0089/ //032 16903
```

☑ F1　☐ F2　☐ F3　☐ F4　☑ F5　☐ F6　☐ F7　☐ F8　☐ F9　☐ F10

☐ F11　☐ F12　☐ F13　☐ F14　☐ F15　☐ F16　☐ F17　☐ F18　☐ F19　☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Reunion	Saint-Denis/Gillot	CURE01	FMEE	011200		CLIMAT TEMP	09004	46

Bulletin as it was received by Toulouse

CURE01 FMEE 011200

CLIMAT 09004 61998

111 10008 20044 30031022 400640002 5057 60019105 7107083 8000000

9000000

333 00000 10000 21700 30501 40000 50000 60803 70000 8280600

444 007405 10403 2010520 3102503 406425 5102906 60000 732100=

☐

Bulletin with marked corrections

CLIMAT report has been inserted into CLIMAT TEMP bulletin:

CURE01 FMEE 011200

CLIMAT 09004

61998 111 10008 20044 30031022 400640002 5057 60019105 7107083 8000000

9000000

333 00000 10000 21700 30501 40000 50000 60803 70000 8280600

444 007405 10403 2010520 3102503 406425 5102906 60000 732100=

☐

Bulletin corrected

CLIMAT report has been inserted into CLIMAT TEMP bulletin

☐ F1	☐ F2	F3	☐ F4	☐ F5	☐ F6	☐ F7	F8	☐ F9	☐ F10
☐ F11	☐ F12	☐ F13	☐ F14	☐ F15	☐ F16	☑ F17	☐ F18	☐ F19	☐ F20

Table B-4 - SMM04A: Samples of the errors found in the CLIMAT TEMP bulletins during the monitoring exercises - Non-application of the WMO standards for the presentation of CLIMAT TEMP reports and bulletins: Manual on Codes, Volume I.1, Part A - Alphanumeric Codes and Manual on the Telecommunication System, Volume I, Global Aspects, WMO-No. 386. The error flags are indicated at the bottom of the page. See Paragraph 7 for the error flag coding. The WMO Members are invited to consider implementing the corrections proposed as soon as possible.

Country	Compiling Centre	TTAAII	CCCC	YYGGGG	BBB	CT	MMJJJ	Key
Turkey	Ankara (Sehir-City)	CUTU10	LTAA	040830		CLIMAT TEMP	59004	332

Bulletin as it was received by Toulouse

```
CUTU10 LTAA 040830
CLIMAT TEMP 59004
17030 10181 74034 15420 11241 03128 01703 31460 10431 89246
28806 58000 16222 47178 25317 94980 18902 03190 25237 21950
10112 44297 25267 40380 10702 69298 25461 65580 21312 71296
25136 08510 20913 08229 28103 40840 20453 24315 01401=
CLIMAT TEMP 59004
17030 20192 34057 15490 01291 08038 29304 31540 00442 13039
26805 58080 06222 75087 24819 95030 08911 98094 24941 21980
00192 39197 25165 40380 00782 68097 25160 65560 01292 78096
24933 08480 00893 05025 20902 40850 00423 20011 22001=
CLIMAT TEMP 59004
```

Bulletin with marked corrections

```
CUTU10 LTAA 040830
CLIMAT TEMP 59004
17030 10181 74034 15420 11241 03128 01703 31460 10431 89246
28806 58000 16222 47178 25317 94980 18902 03190 25237 21950
10112 44297 25267 40380 10702 69298 25461 65580 21312 71296
25136 08510 20913 08229 28103 40840 20453 24315 01401=
 CLIMAT TEMP 59004
17030 20192 34057 15490 01291 08038 29304 31540 00442 13039
26805 58080 06222 75087 24819 95030 08911 98094 24941 21980
00192 39197 25165 40380 00782 68097 25160 65560 01292 78096
24933 08480 00893 05025 20902 40850 00423 20011 22001=
 CLIMAT TEMP 59004
17060 10121 86050 15290 01291 62124 05204 31330 00401 95100
```

Bulletin corrected

```
CUTU10 LTAA 040830
CLIMAT TEMP 59004
17030 10181 74034 15420 11241 03128 01703 31460 10431 89246
28806 58000 16222 47178 25317 94980 18902 03190 25237 21950
10112 44297 25267 40380 10702 69298 25461 65580 21312 71296
25136 08510 20913 08229 28103 40840 20453 24315 01401=
 17030 20192 34057 15490 01291 08038 29304 31540 00442 13039
26805 58080 06222 75087 24819 95030 08911 98094 24941 21980
00192 39197 25165 40380 00782 68097 25160 65560 01292 78096
24933 08480 00893 05025 20902 40850 00423 20011 22001=

17062 10121 86050 15290 01321 63124 05204 31330 00421 95128
```

☑ F2 ☐ F3 ☑ F4 ☐ F5 ☐ F6 ☐ F7 ☐ F8 ☐ F9 ☐ F10

☐ F12 ☐ F13 ☐ F14 ☐ F15 ☐ F16 ☐ F17 ☐ F18 ☐ F19 ☐ F20