

WORLD METEOROLOGICAL ORGANIZATION

RA IV/WG-PIW-04/Doc. 4(1)
(31.VIII.2004)

REGIONAL ASSOCIATION IV
(NORTH AMERICA, CENTRAL AMERICA
AND THE CARIBBEAN)

ITEM 4

WORKING GROUP ON PLANNING AND
IMPLEMENTATION OF THE WWW IN REGION IV

ENGLISH only

BELIZE CITY, 19 - 22 OCTOBER 2004

STATUS OF WWW IMPLEMENTATION AND OPERATIONS

Availability of SYNOP, TEMP, CLIMAT and CLIMAT TEMP reports at MTN centres

(Submitted by the Secretariat)

Summary and purpose of document

This document includes an analysis of the results of the quantitative monitoring of the operation of the WWW, showing the availability of SYNOP, TEMP, CLIMAT and CLIMAT TEMP reports at MTN centres

ACTION PROPOSED

The group is invited to take into account the information provided in the document when considering improvements to be made in the implementation of the GOS and GTS in the Region.

Appendix: Analysis of the presentation of the CLIMAT and CLIMAT TEMP bulletins

DISCUSSION

1. A summary of the analysis of the results of the October 2003, January, April and July 2004 exercises of the Special MTN monitoring (SMM) is given in Table 1 to 8 and Figures 1 to 4. Further detailed information on these monitoring exercises is available in the WMO server under <http://www.wmo.int/web/www/ois/monitor/monitor-home.htm>.

Availability of SYNOP and TEMP reports from RBSN stations at MTN centres

2. Table A is a condensed summary of the SMM results for SYNOP and TEMP reports.

Table A

Type of data	Reports received on average during the October 2003, January, April and July 2004 SMM	Reports expected to be prepared*
SYNOP	81%	96%
Part A of TEMP	84%	93%

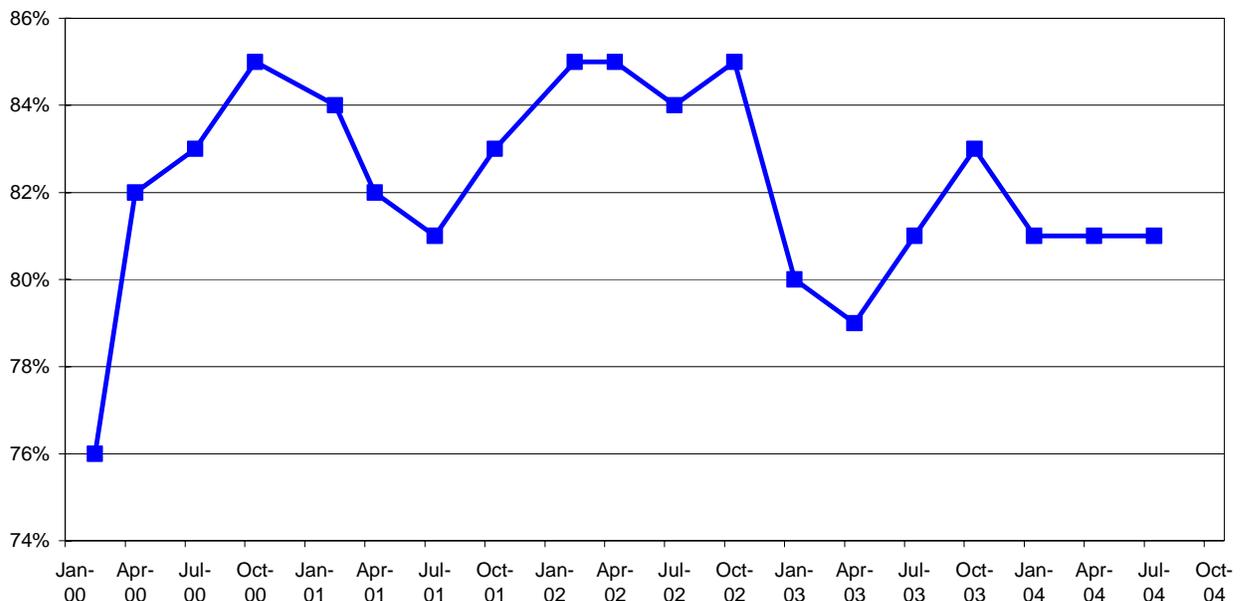
Note: the percentages are calculated with the RBSN as the reference

* At stations implemented according to WMO-No. 9, Vol. A (July 2004).

3. The following deficiencies were found during the four SMM exercises:

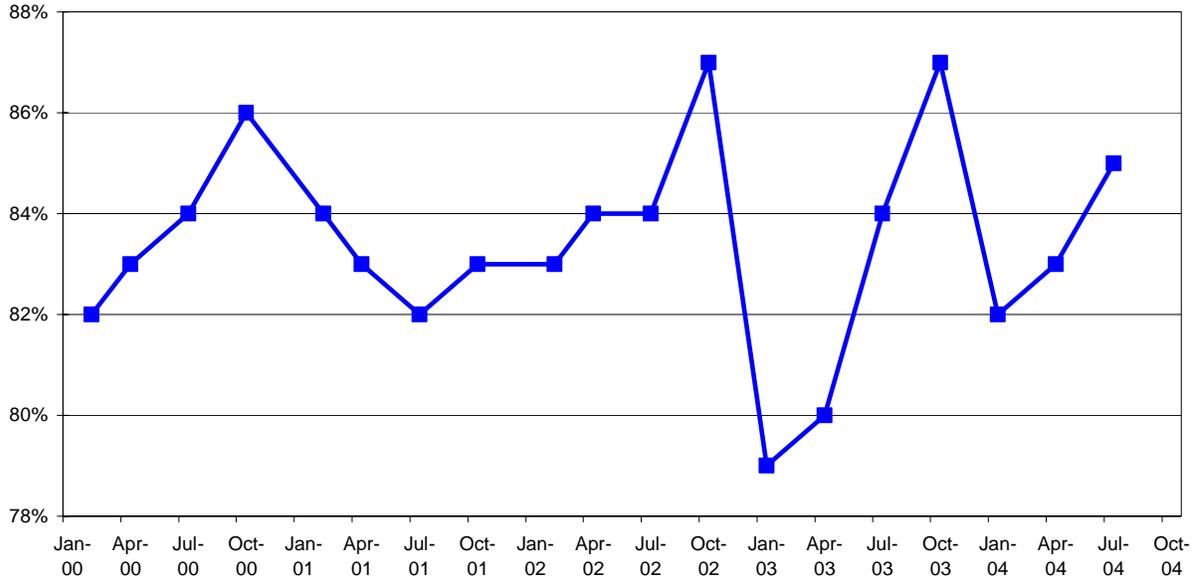
- No SYNOP reports were received from Clipperton, Cuba, Haiti and Venezuela (Isla de Aves). Less than 36 per cent of the expected SYNOP reports were received from Bahamas, Belize, Colombia (San Andres and Providencia Islands), Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama and Saint Lucia. Thirty stations were silent during the four SMM exercises (see Table 5).
- No TEMP reports were received from Guatemala, Honduras, Nicaragua and Panama. Less than 4 per cent of the expected TEMP reports were received from Colombia (San Andres and Providencia Islands) and Cuba. Less than 53 per cent of the expected TEMP reports were received from Bahamas, Bermuda, Cayman Island, Costa Rica, Curacao and Bonaire, Dominican Republic, Jamaica, Mexico, Netherlands Antilles and Trinidad and Tobago. Nine stations were silent during the four SMM exercises (see Table 6).

Table B - Number of SYNOP reports received during the AGM and SMM exercises from the RBSN stations located in Region IV



4. Tables B and C show the availability of SYNOP and TEMP reports from RBSN stations located in Region IV from 2000 to 2004. The availability of SYNOP reports oscillated around 82 per cent during the period 2000-2004, and that of TEMP reports around 83 per cent.

Table C - Number of TEMP reports received during the AGM and SMM exercises from the RBSN stations located in Region IV



Availability of CLIMAT and CLIMAT TEMP reports from RBCN stations at MTN centres

5. The analysis of the Annual Global Monitoring (AGM) of the WWW and of the SMM shows lower figures for the availability of the CLIMAT and CLIMAT TEMP reports at MTN centres for the SMM exercises than for the AGM exercises. This is mainly due to the fact that the AGM statistics include the availability of the reports at 14 MTN centres instead of three for the SMM, and that the pre-analysis of the SMM raw data made by Cairo systematically rejects the reports for which the format of presentation is not conform to the WMO standards. The monitoring of the exchange of CLIMAT and CLIMAT TEMP bulletins on the GTS shows major deficiencies in the application of WMO standards for the presentation of CLIMAT and CLIMAT TEMP bulletins. The WMO Secretariat investigated deficiencies in the application of WMO standards in the presentation of CLIMAT and CLIMAT TEMP bulletins. A summary of the analysis of the presentation of CLIMAT and CLIMAT TEMP bulletins is given in Appendix. The WMO Secretariat informed the WMO Member countries of the deficiencies found for each country and invited them to take action in order to eliminate the deficiencies. The results of the action taken will be further monitored during the next periods of the Special MTN monitoring.

6. Table D is a condensed summary of the AGM results for CLIMAT and CLIMAT TEMP reports.

Table D

Type of data	Reports received during the October 2003 AGM	Reports expected to be prepared*
CLIMAT	73%	70%
CLIMAT TEMP	45%	55%

Note: the percentages are calculated with the RBCN as the reference

* At stations implemented according to WMO-No. 9, Vol. A (July 2003).

7. The following deficiencies were found during the four SMM exercises:

- No CLIMAT reports were received from Bermuda, Cayman Island, Costa Rica, Cuba, Dominican Republic, El Salvador, Guatemala, Panama, and Trinidad and Tobago. Less than 25 per cent of the expected CLIMAT reports were received from Colombia (San Andres and Providencia Islands) and Honduras. Less than 53 per cent of the expected CLIMAT reports were received from Bahamas and Mexico. Sixty-four stations were silent during the four SMM exercises (see Table 7).
- No CLIMAT TEMP reports were received from Bahamas, Barbados, Bermuda, Colombia (San Andres and Providencia Islands), Costa Rica, Dominican Republic, Guadeloupe and Mexico. Less than 50 per cent of the expected CLIMAT TEMP reports were received from Jamaica, Netherlands Antilles and Trinidad and Tobago. Thirty stations were silent during the four SMM exercises (see Table 8).

**Availability of SYNOP reports from Region IV
on the Main Telecommunication Network**

Monitoring period: 1 to 15 October 2003, 1 to 15 January 2004, 1 to 15 April 2004 and 1 to 15 July 2004
(Special MTN Monitoring)

Geographical Location	Calculation based on combining the four RBSNs						Average over the four monitoring periods
	RBSNs	Volume A July 2004	Percentage of reports received with reference to the four RBSNs				
	Number of stations	Number of observations implemented %	October 2003	January 2004	April 2004	July 2004	

RTH Washington							
Antigua and Barbuda	1	4 (100 %)	40 %	45 %	67 %	73 %	56 %
Bahamas	5	16 (80 %)	17 %	26 %	28 %	30 %	25 %
Barbados	1	4 (100 %)	95 %	98 %	95 %	93 %	95 %
Belize	2	8 (100 %)	45 %	50 %	35 %	12 %	36 %
Bermuda	1	4 (100 %)	100 %	97 %	93 %	98 %	97 %
Canada	180	689 (96 %)	92 %	92 %	93 %	90 %	92 %
Cayman Islands	1	3 (75 %)	72 %	72 %	68 %	63 %	69 %
Clipperton	1	4 (100 %)	0 %	0 %	0 %	0 %	0 %
Colombia (San Andres and Providencia Islands)	2	6 (75 %)	32 %	42 %	13 %	0 %	22 %
Costa Rica	3	10 (83 %)	19 %	17 %	26 %	26 %	22 %
Cuba	9	36 (100 %)	0 %	0 %	0 %	0 %	0 %
Curacao and Bonaire	2	7 (88 %)	71 %	73 %	68 %	68 %	70 %
Dominica	2	4 (50 %)	50 %	49 %	57 %	53 %	52 %
Dominican Republic	5	17 (85 %)	57 %	59 %	59 %	56 %	58 %
El Salvador	2	8 (100 %)	52 %	46 %	2 %	1 %	25 %
Grenada	1	4 (100 %)	55 %	77 %	70 %	68 %	68 %
Guadeloupe, St Martin, St Barthelemy and other French Islands in the vicinity	3	12 (100 %)	67 %	52 %	63 %	96 %	70 %
Guatemala	3	12 (100 %)	8 %	22 %	0 %	0 %	8 %
Haiti	2	6 (75 %)	0 %	0 %	0 %	0 %	0 %
Honduras	10	40 (100 %)	46 %	34 %	28 %	23 %	33 %
Jamaica	2	8 (100 %)	95 %	98 %	98 %	88 %	95 %
Martinique	2	8 (100 %)	84 %	98 %	66 %	100 %	87 %
Mexico	54	197 (91 %)	53 %	43 %	44 %	60 %	50 %
Netherlands Antilles and Aruba	3	11 (92 %)	77 %	74 %	64 %	77 %	73 %
Nicaragua	5	16 (80 %)	6 %	7 %	3 %	0 %	4 %

**Availability of SYNOP reports from Region IV
on the Main Telecommunication Network**

Monitoring period: 1 to 15 October 2003, 1 to 15 January 2004, 1 to 15 April 2004 and 1 to 15 July 2004
(Special MTN Monitoring)

Geographical Location	Calculation based on combining the four RBSNs						
	RBSNs	Volume A July 2004	Percentage of reports received with reference to the four RBSNs				Average over the four monitoring periods
	Number of stations	Number of observations implemented %	October 2003	January 2004	April 2004	July 2004	
RTH Washington							
Panama	3	10 (83 %)	29 %	64 %	0 %	0 %	23 %
Puerto Rico and US Possessions in the Caribbean area	2	8 (100 %)	98 %	96 %	99 %	98 %	98 %
Saint Lucia	2	7 (88 %)	0 %	5 %	6 %	50 %	15 %
St. Pierre and Miquelon	1	4 (100 %)	100 %	100 %	98 %	100 %	100 %
Trinidad and Tobago	2	8 (100 %)	92 %	92 %	83 %	83 %	88 %
United States of America	199	786 (99 %)	98 %	97 %	97 %	96 %	97 %
Venezuela (Isla de Aves)	1	4 (100 %)	0 %	0 %	0 %	0 %	0 %
Total:	512	1961 (96 %)	82 %	81 %	81 %	81 %	81 %
TOTAL REGION IV							
Total Region IV:	512	1961 (96 %)	82 %	81 %	81 %	81 %	81 %

**Availability of TEMP reports from Region IV
on the Main Telecommunication Network**

Monitoring period: 1 to 15 October 2003, 1 to 15 January 2004, 1 to 15 April 2004 and 1 to 15 July 2004
(Special MTN Monitoring)

Geographical Location	Calculation based on combining the four RBSNs						Average over the four monitoring periods
	RBSNs	Volume A July 2004	Percentage of reports received with reference to the four RBSNs				
	Number of stations	Number of observations implemented %	October 2003	January 2004	April 2004	July 2004	

RTH Washington							
Bahamas	1	1 (50 %)	20 %	40 %	37 %	40 %	34 %
Barbados	1	2 (100 %)	97 %	50 %	40 %	47 %	59 %
Belize	1	2 (100 %)	97 %	43 %	40 %	27 %	52 %
Bermuda	1	2 (100 %)	20 %	47 %	40 %	17 %	31 %
Canada	31	62 (100 %)	96 %	95 %	94 %	97 %	96 %
Cayman Islands	1	2 (100 %)	90 %	23 %	27 %	73 %	53 %
Colombia (San Andres and Providencia Islands)	1	1 (50 %)	0 %	0 %	7 %	7 %	4 %
Costa Rica	1	1 (50 %)	30 %	0 %	0 %	97 %	32 %
Cuba	2	3 (75 %)	0 %	0 %	0 %	2 %	1 %
Curacao and Bonaire	1	2 (100 %)	83 %	50 %	50 %	0 %	46 %
Dominican Republic	1	1 (50 %)	83 %	3 %	43 %	47 %	44 %
Guadeloupe, St Martin, St Barthelemy and other French Islands in the vicinity	1	2 (100 %)	100 %	100 %	93 %	100 %	98 %
Guatemala	1	1 (50 %)	0 %	0 %	0 %	0 %	0 %
Honduras	1	1 (50 %)	0 %	0 %	0 %	0 %	0 %
Jamaica	1	2 (100 %)	77 %	40 %	43 %	50 %	53 %
Mexico	11	17 (77 %)	53 %	37 %	45 %	63 %	50 %
Netherlands Antilles and Aruba	1	2 (100 %)	83 %	43 %	37 %	40 %	51 %
Nicaragua	1	1 (50 %)	0 %	0 %	0 %	0 %	0 %
Panama	1	1 (50 %)	0 %	0 %	0 %	0 %	0 %
Puerto Rico and US Possessions in the Caribbean area	1	2 (100 %)	100 %	100 %	100 %	100 %	100 %
Trinidad and Tobago	1	1 (50 %)	57 %	0 %	33 %	37 %	32 %
United States of America	80	156 (98 %)	97 %	97 %	97 %	97 %	97 %
Total:	142	265 (93 %)	86 %	82 %	83 %	85 %	84 %

TOTAL REGION IV							
Total Region IV:	142	265 (93 %)	86 %	82 %	83 %	85 %	84 %

**Availability of CLIMAT reports from Region IV
on the Main Telecommunication Network**

Monitoring period: 1 to 15 October 2003, 1 to 15 January 2004, 1 to 15 April 2004 and 1 to 15 July 2004
(Special MTN Monitoring)

Geographical Location	Calculation based on combining the four RBCNs						Average over the four monitoring periods
	RBCNs	Volume A July 2004	Percentage of reports received with reference to the four RBCNs				
	Number of stations	Number of observations implemented %	October 2003	January 2004	April 2004	July 2004	

RTH Washington							
Bahamas	1	1 (100 %)	0 %	100 %	100 %	0 %	50 %
Barbados	1	1 (100 %)	100 %	100 %	100 %	0 %	75 %
Belize	1	1 (100 %)	100 %	100 %	100 %	0 %	75 %
Bermuda	1	0 (0 %)	0 %	0 %	0 %	0 %	0 %
Canada	72	42 (58 %)	85 %	85 %	79 %	69 %	80 %
Cayman Islands	1	0 (0 %)	0 %	0 %	0 %	0 %	0 %
Colombia (San Andres And Providencia Islands)	2	2 (100 %)	100 %	0 %	0 %	0 %	25 %
Costa Rica	3	3 (100 %)	0 %	0 %	0 %	0 %	0 %
Cuba	2	1 (50 %)	0 %	0 %	0 %	0 %	0 %
Dominican Republic	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
El Salvador	3	1 (33 %)	0 %	0 %	0 %	0 %	0 %
Guadeloupe, St Martin, St Barthelemy And other French Islands in the vicinity	2	2 (100 %)	50 %	100 %	100 %	50 %	75 %
Guatemala	1	0 (0 %)	0 %	0 %	0 %	0 %	0 %
Honduras	13	11 (85 %)	8 %	15 %	0 %	0 %	6 %
Jamaica	2	2 (100 %)	100 %	50 %	100 %	50 %	75 %
Mexico	80	33 (41 %)	60 %	52 %	36 %	64 %	53 %
Netherlands Antilles And Aruba	2	2 (100 %)	100 %	100 %	100 %	100 %	100 %
Nicaragua	1	1 (100 %)	100 %	100 %	100 %	0 %	75 %
Panama	1	0 (0 %)	0 %	0 %	0 %	0 %	0 %
Puerto Rico And US Possessions in the Caribbean area	1	0 (0 %)	100 %	100 %	100 %	100 %	100 %
Trinidad And Tobago	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
United States of America	106	97 (92 %)	92 %	6 %	93 %	95 %	72 %
Total:	298	202 (68 %)	73 %	41 %	66 %	69 %	62 %

TOTAL REGION IV							
Total Region IV:	298	202 (68 %)	73 %	41 %	66 %	69 %	62 %

**Availability of CLIMAT TEMP reports from Region IV
on the Main Telecommunication Network**

Monitoring period: 1 to 15 October 2003, 1 to 15 January 2004, 1 to 15 April 2004 and 1 to 15 July 2004
(Special MTN Monitoring)

Geographical Location	Calculation based on combining the four RBCNs						Average over the four monitoring periods
	RBCNs	Volume A July 2004	Percentage of reports received with reference to the four RBCNs				
	Number of stations	Number of observations implemented %	October 2003	January 2004	April 2004	July 2004	

RTH Washington							
Bahamas	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
Barbados	1	0 (0 %)	0 %	0 %	0 %	0 %	0 %
Belize	1	0 (0 %)	100 %	100 %	100 %	100 %	100 %
Bermuda	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
Colombia (San Andres And Providencia Islands)	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
Costa Rica	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
Dominican Republic	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
Guadeloupe, St Martin, St Barthelemy And other French Islands in the vicinity	1	1 (100 %)	0 %	0 %	0 %	0 %	0 %
Jamaica	1	1 (100 %)	0 %	100 %	100 %	0 %	50 %
Mexico	16	0 (0 %)	0 %	0 %	0 %	0 %	0 %
Netherlands Antilles And Aruba	2	2 (100 %)	100 %	50 %	0 %	0 %	38 %
Puerto Rico And US Possessions in the Carribbean area	1	0 (0 %)	100 %	100 %	100 %	100 %	100 %
Trinidad And Tobago	1	1 (100 %)	0 %	0 %	100 %	100 %	50 %
United States of America	29	22 (76 %)	76 %	76 %	76 %	76 %	76 %
Total:	58	32 (55 %)	45 %	45 %	45 %	43 %	45 %

TOTAL REGION IV							
Total Region IV:	58	32 (55 %)	45 %	45 %	45 %	43 %	45 %

Table 5, Page 1 of 3

List of silent stations for SYNOP in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Bahamas	78066 78088 78109	78066 78088 78109	78066 78088	78066 78088	78066 78088
<i>Total:</i>	3	3	2	2	2
Belize	78596	78596	78596	78596	78596
<i>Total:</i>	1	1	1	1	1
Canada	71119 71433 71708 71711 71811 71864 71931 71937 71953	71119 71433 71708 71711 71811 71864 71931 71937 71953	71119 71433 71708 71711 71811 71864 71931 71937 71953	71091 71119 71433 71708 71711 71811 71864 71931 71937 71953 71958	71119 71433 71708 71711 71811 71864 71931 71937 71953
<i>Total:</i>	9	9	9	11	9
Clipperton	78825	78825	78825	78825	78825
<i>Total:</i>	1	1	1	1	1
Colombia (San Andres and Providencia Islands)			80002	80001 80002	
<i>Total:</i>	0	0	1	2	0
Cuba	78310 78325 78333 78338 78349 78355	78310 78325 78333 78338 78349 78355	78310 78325 78333 78338 78349 78355	78310 78325 78333 78338 78349 78355	78310 78325 78333 78338 78349 78355

Table 5, Page 2 of 3

List of silent stations for SYNOP in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Cuba	78360 78367 78369	78360 78367 78369	78360 78367 78369	78360 78367 78369	78360 78367 78369
<i>Total:</i>	9	9	9	9	9
El Salvador				78650	
<i>Total:</i>	0	0	0	1	0
Guatemala			78627 78641 78647	78627 78641 78647	
<i>Total:</i>	0	0	3	3	0
Haiti	78409 78447	78409 78447	78409 78447	78409 78447	78409 78447
<i>Total:</i>	2	2	2	2	2
Honduras	78501 78701	78501 78701 78706 78711 78714	78501 78701 78706 78711 78714	78501 78701 78706 78711	78501 78701
<i>Total:</i>	2	5	5	4	2
Mexico	76118 76151 76412	76118 76151 76253 76723	76118 76151 76723	76118 76151 76723	76118 76151
<i>Total:</i>	3	4	3	3	2
Nicaragua	78730 78739	78730 78739	78739	78730 78734 78739	78739

List of silent stations for SYNOP in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Nicaragua				78741 78745	
<i>Total:</i>	2	2	1	5	1
Panama			78792 78793 78795	78792 78793 78795	
<i>Total:</i>	0	0	3	3	0
Saint Lucia	78947 78948		78947		
<i>Total:</i>	2	0	1	0	0
United States of America		72608	72608	72608	
<i>Total:</i>	0	1	1	1	0
Venezuela (Isla de Aves)	80400	80400	80400	80400	80400
<i>Total:</i>	1	1	1	1	1
<i>Total:</i> <i>Total RA IV:</i>	35	38	43	49	30

Table 6, Page 1 of 2

List of silent stations for TEMP in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Canada	71876	71876	71876	71876	71876
<i>Total:</i>	1	1	1	1	1
Colombia (San Andres and Providencia Islands)	80001	80001			
<i>Total:</i>	1	1	0	0	0
Costa Rica		78762	78762		
<i>Total:</i>	0	1	1	0	0
Cuba	78355 78367	78355 78367	78355 78367	78355	78355
<i>Total:</i>	2	2	2	1	1
Curacao and Bonaire				78988	
<i>Total:</i>	0	0	0	1	0
Guatemala	78641	78641	78641	78641	78641
<i>Total:</i>	1	1	1	1	1
Honduras	78720	78720	78720	78720	78720
<i>Total:</i>	1	1	1	1	1
Mexico	76151 76225	76151 76225 76723	76151	76151	76151
<i>Total:</i>	2	3	1	1	1
Nicaragua	78730	78730	78730	78730	78730
<i>Total:</i>	1	1	1	1	1
Panama	78808	78808	78808	78808	78808

List of silent stations for TEMP in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Panama <i>Total:</i>	1	1	1	1	1
Trinidad and Tobago <i>Total:</i>	0	78970 1	0	0	0
United States of America <i>Total:</i>	72389 72429 2	72389 72429 2	72389 72429 2	72389 72429 2	72389 72429 2
<i>Total: Total RA IV:</i>	12	15	11	10	9

List of silent stations for CLIMAT in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Bahamas	78073			78073	
<i>Total:</i>	1	0	0	1	0
Barbados				78954	
<i>Total:</i>	0	0	0	1	0
Belize				78583	
<i>Total:</i>	0	0	0	1	0
Bermuda	78016	78016	78016	78016	78016
<i>Total:</i>	1	1	1	1	1
Canada				71081	
			71082	71082	
				71090	
71093	71093	71093	71093	71093	71093
71094	71094	71094	71094	71094	71094
71706	71706	71706	71706	71706	71706
71811	71811	71811	71811	71811	71811
71831	71831	71831	71831	71831	71831
71855	71855	71855	71855	71855	71855
71870	71870	71870	71870	71870	71870
71872	71872	71872	71872	71872	71872
			71909	71909	
71918	71918	71918	71918	71918	71918
			71924	71924	
			71925	71925	
				71926	
71932	71932	71932	71932	71932	71932
				71934	
				71935	
				71946	
71953	71953	71953	71953	71953	71953
				71957	
<i>Total:</i>	11	11	15	22	11

List of silent stations for CLIMAT in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Cayman Islands	78384	78384	78384	78384	78384
<i>Total:</i>	1	1	1	1	1
Colombia (San Andres And Providencia Islands)		80001	80001	80001	
<i>Total:</i>	0	80002 2	80002 2	80002 2	0
Costa Rica	78760	78760	78760	78760	78760
	78762	78762	78762	78762	78762
	78767	78767	78767	78767	78767
<i>Total:</i>	3	3	3	3	3
Cuba	78325	78325	78325	78325	78325
	78367	78367	78367	78367	78367
<i>Total:</i>	2	2	2	2	2
Dominican Republic	78486	78486	78486	78486	78486
<i>Total:</i>	1	1	1	1	1
El Salvador	78650	78650	78650	78650	78650
	78652	78652	78652	78652	78652
	78663	78663	78663	78663	78663
<i>Total:</i>	3	3	3	3	3
Guadeloupe, St Martin, St Barthelemy And other French Islands in the vicinity				78897	
<i>Total:</i>	78925 1	0	0	1	0
Guatemala	78640	78640	78640	78640	78640
<i>Total:</i>	1	1	1	1	1

List of silent stations for CLIMAT in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Honduras	78501	78501	78501	78501	78501
	78700	78700	78700	78700	78700
	78701	78701	78701	78701	78701
		78705	78705	78705	
	78706	78706	78706	78706	78706
	78707	78707	78707	78707	78707
	78708		78708	78708	
	78711	78711	78711	78711	78711
	78714	78714	78714	78714	78714
	78717	78717	78717	78717	78717
	78718	78718	78718	78718	78718
	78720		78720	78720	
	78724	78724	78724	78724	78724
	<i>Total:</i>	12	11	13	13
Jamaica		78397		78397	
<i>Total:</i>	0	1	0	1	0
Mexico		76040		76040	
	76050	76050	76050	76050	76050
	76055	76055	76055	76055	76055
		76061	76061		
	76118	76118	76118	76118	76118
	76122	76122	76122	76122	76122
			76160		
			76220		
	76225				
			76243		
	76253	76253	76253	76253	76253
	76258	76258	76258	76258	76258
	76305		76305		
	76323	76323	76323	76323	76323
	76373				
			76382		
		76390	76390	76390	
			76393		
76401	76401	76401	76401	76401	

List of silent stations for CLIMAT in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Mexico			76402		
	76412	76412	76423		
	76458				
	76491				
	76519	76519	76519		
			76525		
			76548		
	76551	76551	76551	76551	76551
	76571	76571	76571	76571	76571
	76573	76573	76573	76573	76573
			76581		
			76585		
	76593	76593	76593	76593	76593
	76612	76612	76612	76612	76612
	76625	76625	76625	76625	76625
	76632	76632	76632	76632	76632
			76634		
			76640		
			76644		
			76647		
	76656	76656	76656	76656	76656
			76658		
			76662		
			76665		
			76675		
			76680		
			76685		76685
	76692		76692		
			76695		
			76698		
			76723		
	76737	76737	76737	76737	76737
76741	76741	76741	76741	76741	
		76750			
76751	76751	76751	76751	76751	
76762	76762	76762	76762	76762	
76773	76773	76773	76773	76773	
76775	76775	76775	76775	76775	

List of silent stations for CLIMAT in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
United States of America	72247	72226	72247	72247	72247
		72231			
		72234			
		72247			
		72248			
		72250			
		72253			
		72255			
		72266			
		72270			
		72274			
		72278			
		72290			
		72295			
		72304			
	72306				
	72312				
	72315				
	72324				
	72327				
	72340				
	72344				
	72353				
	72360	72360			
	72365				
	72386				
	72389				
	72401				
	72405				
	72422				
	72428				
	72429				
	72434				
72438					
72445					
72451					
72458					
72476					
72483					

List of silent stations for CLIMAT in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods	
United States of America		72486				
		72488				
		72494				
		72503				
		72507				
		72509				
		72519				
		72520				
		72528				
		72535				
		72546				
		72556				
		72562				
		72569				
		72572				
		72576				
		72578				
		72583				
		72594				
		72597				
		72613	72613	72613	72613	72613
			72617			
			72641			
			72654			
			72658			
			72662			
			72681			
			72688			
			72698			
			72712			
		72743	72743	72743	72743	72743
			72745			
			72747			
		72764				
		72768				
		72772				
	72776	72776	72776	72776	72776	
		72785				
		72792				

List of silent stations for CLIMAT in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
United States of America		72797			
	74492	74492	74492	74492	74492
<i>Total:</i>	8	100	7	5	5
<i>Total:</i> <i>Total RA IV:</i>	79	177	102	91	64

Table 8, Page 1 of 2

List of silent stations for CLIMAT TEMP in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Bahamas	78073	78073	78073	78073	78073
<i>Total:</i>	1	1	1	1	1
Barbados	78954	78954	78954	78954	78954
<i>Total:</i>	1	1	1	1	1
Bermuda	78016	78016	78016	78016	78016
<i>Total:</i>	1	1	1	1	1
Colombia (San Andres And Providencia Islands)	80001	80001	80001	80001	80001
<i>Total:</i>	1	1	1	1	1
Costa Rica	78762	78762	78762	78762	78762
<i>Total:</i>	1	1	1	1	1
Dominican Republic	78486	78486	78486	78486	78486
<i>Total:</i>	1	1	1	1	1
Guadeloupe, St Martin, St Barthelemy And other French Islands in the vicinity	78897	78897	78897	78897	78897
<i>Total:</i>	1	1	1	1	1
Jamaica	78397			78397	
<i>Total:</i>	1	0	0	1	0
Mexico	76225	76225	76225	76225	76225
	76256	76256	76256	76256	76256
	76382	76382	76382	76382	76382
	76394	76394	76394	76394	76394
	76405	76405	76405	76405	76405

Table 8, Page 2 of 2

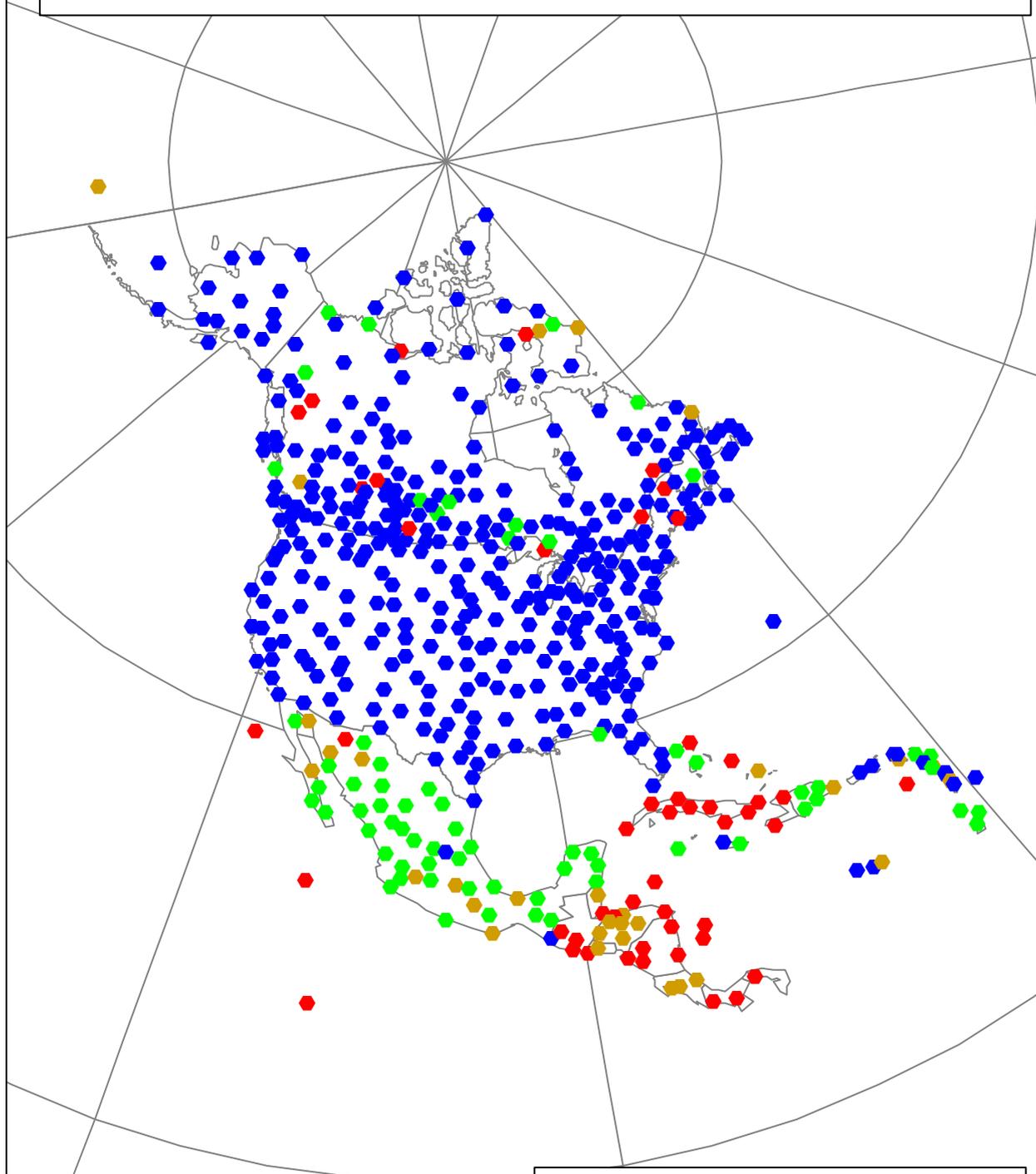
List of silent stations for CLIMAT TEMP in RA IV

Monitoring period: 1-15 October 2003, 1-15 January 2004, 1-15 April 2004 and 1-15 July 2004
(Special MTN Monitoring)

Country	October 2003	January 2004	April 2004	July 2004	All periods
Mexico	76458	76458	76458	76458	76458
	76526	76526	76526	76526	76526
	76595	76595	76595	76595	76595
	76612	76612	76612	76612	76612
	76644	76644	76644	76644	76644
	76654	76654	76654	76654	76654
	76679	76679	76679	76679	76679
	76692	76692	76692	76692	76692
	76723	76723	76723	76723	76723
	76805	76805	76805	76805	76805
	76855	76855	76855	76855	76855
<i>Total:</i>	16	16	16	16	16
Netherlands Antilles And Aruba			78866	78866	
		78988	78988	78988	
<i>Total:</i>	0	1	2	2	0
Trinidad And Tobago	78970	78970			
<i>Total:</i>	1	1	0	0	0
United States of America	72206	72206	72206	72206	72206
	72247	72247	72247	72247	72247
	72501	72501	72501	72501	72501
	72632	72632	72632	72632	72632
	72659	72659	72659	72659	72659
	74389	74389	74389	74389	74389
	74455	74455	74455	74455	74455
<i>Total:</i>	7	7	7	7	7
<i>Total:</i> <i>Total RA IV:</i>	32	32	32	33	30

Figure 1

Availability of SYNOP reports from RBSN stations in Region IV
Monitoring period: 1 to 15 July 2004



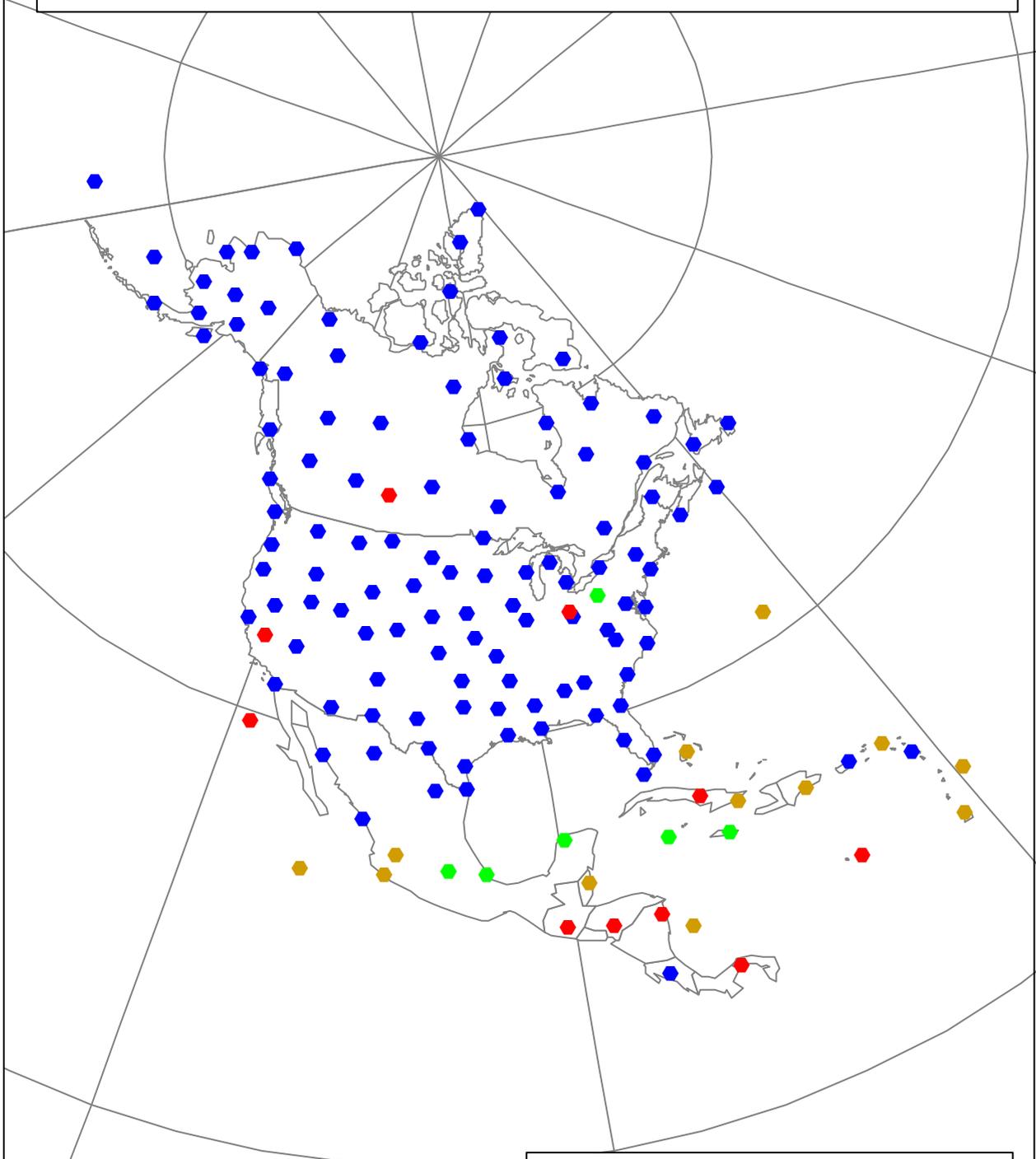
● 90% to 100%	(364)
● 50% to 90%	(68)
● 1% to 50%	(31)
● silent stations	(49)

The designations employed and the presentation of material in this chart do not imply the expression of any opinion whatsoever on the part of the Secretariat of the World Meteorological Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

WMO Secretariat

Figure 2

Availability of TEMP reports from RBSN stations in Region IV
Monitoring period: 1 to 15 July 2004



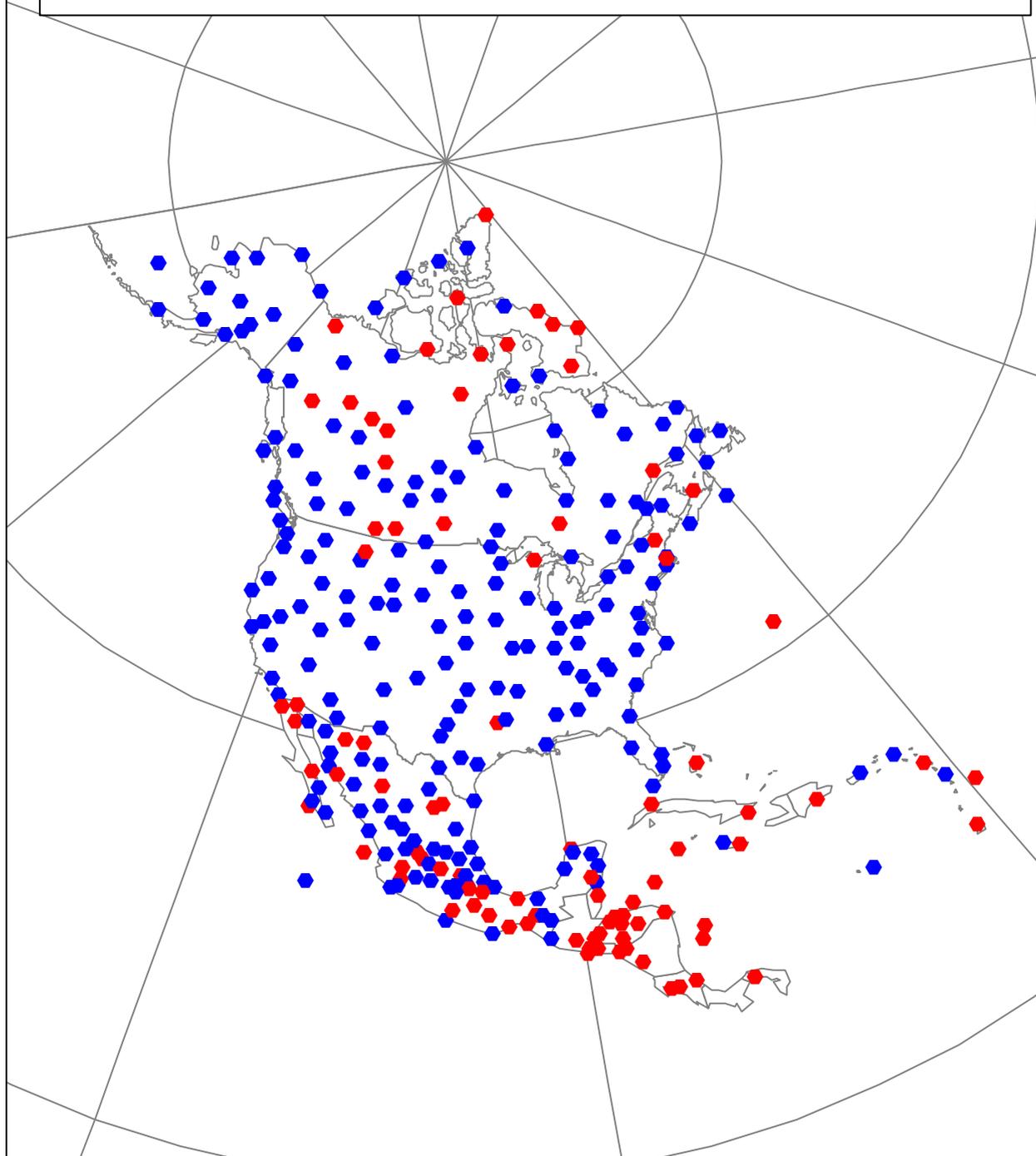
- 90% to 100% (114)
- 50% to 90% (6)
- 1% to 50% (12)
- silent stations (10)

The designations employed and the presentation of material in this chart do not imply the expression of any opinion whatsoever on the part of the Secretariat of the World Meteorological Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

WMO Secretariat

Figure 3

Availability of CLIMAT reports from RBSN stations in Region IV
Monitoring period: 1 to 15 July 2004



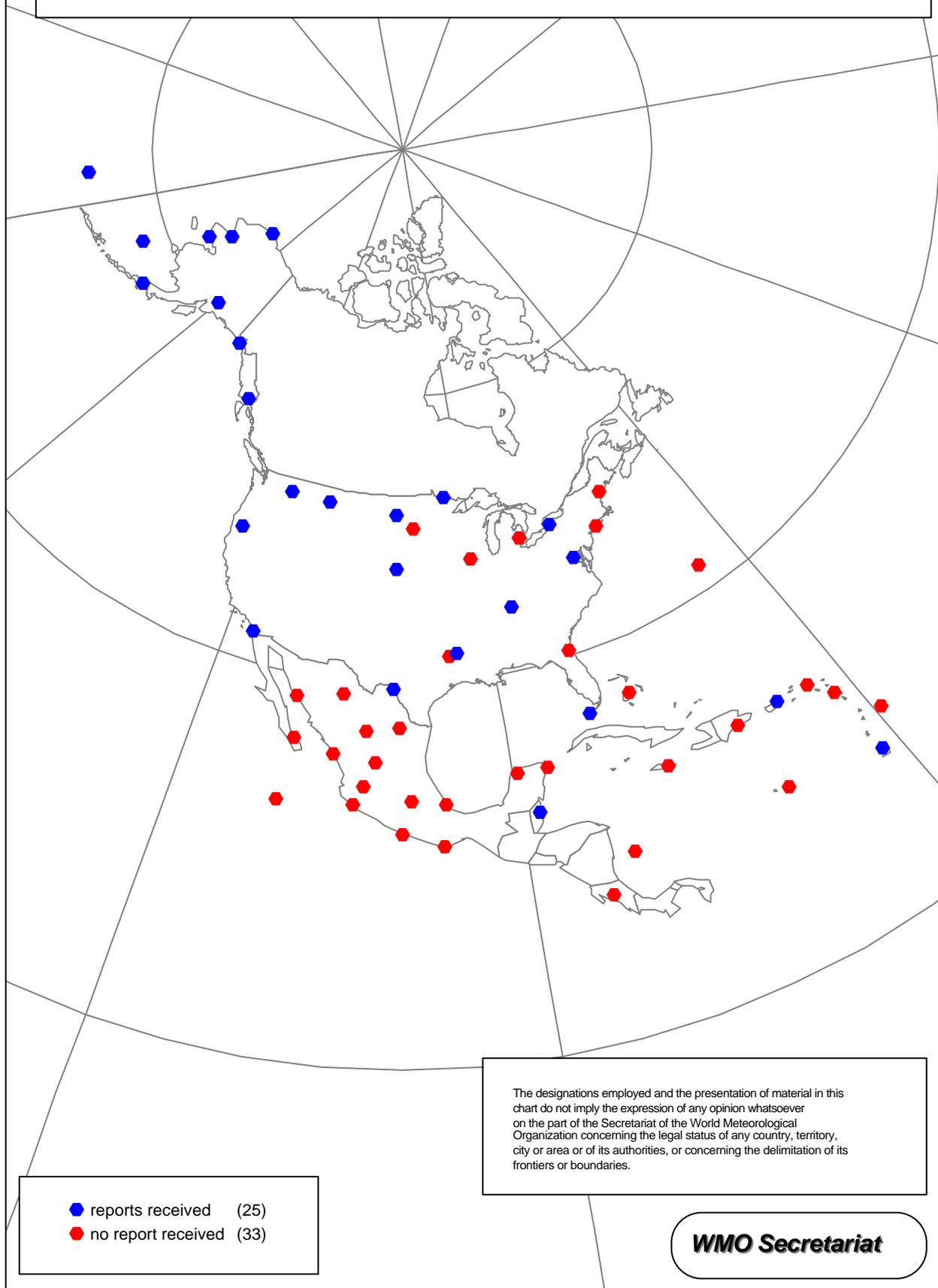
● reports received (207)
● no report received (91)

The designations employed and the presentation of material in this chart do not imply the expression of any opinion whatsoever on the part of the Secretariat of the World Meteorological Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

WMO Secretariat

Figure 4

Availability of CLIMAT TEMP reports from RBSN stations in Region IV
Monitoring period: 1 to 15 July 2004



Appendix

Analysis of the presentation of the CLIMAT and CLIMAT TEMP bulletins

Introduction

1. The monitoring of the exchange of CLIMAT and CLIMAT TEMP bulletins on the GTS revealed deficiencies in the application of WMO standards for the form and format of CLIMAT and CLIMAT TEMP bulletins. The relevant standard are the procedures and practices included in the Manual on the GTS for the presentation of GTS bulletins (see ftp://www.wmo.ch/wmo-ddbs/To_Jen/gts/Volumel/TEM/Contents.html#Pt2) and in the Manual on Codes for the presentation of CLIMAT and CLIMAT TEMP reports, i.e. code forms FM 71-XII CLIMAT and FM 75-XII CLIMAT TEMP (see <http://www.wmo.int/web/www/DPS/NewCodesTables/WMO306vol-I-1PartA.pdf>).

Reference material

2. The analysis of the presentation of the CLIMAT and CLIMAT TEMP bulletins is based on the information available from the April 2004 exercise of the Special MTN Monitoring (SMM), in particular:

- The raw data provided by Toulouse: the bulletins shown in Tables A-4 and B-4 are the March 2004 CLIMAT and CLIMAT TEMP bulletins received by Toulouse during the monitoring period 1 to 15 April 2004;
- The analysis made by Cairo and the WMO Secretariat of the raw data provided by Cairo, Melbourne and Toulouse was used to identify anomalies in the presentation of the bulletins.

Further information on the SMM are available in the WMO server: general information from <http://www.wmo.ch/web/www/ois/monitor/monitor-home.htm> - SMM and the results of the analysis of the April 2004 SMM from <http://www.wmo.ch/web/www/ois/monitor/smm/sm044.htm>

Results of the analysis

3. The analysis focuses on the bulletins containing reports issued from stations included in the Antarctic and Regional Basic Climatological Networks (ABSN/RBSNs). The list of stations included in the ABSN/RBSNs and the numbers of reports received during the October 2003, January and April 2004 SMM were given in Tables A-1 and B-1 sent to each country.

4. The abbreviated headings TTAaii CCCC of the CLIMAT and CLIMAT TEMP bulletins, with the list of stations included in each bulletin, should be published in the WMO Publication No. 9, Volume C1 – Catalogue of meteorological bulletins. The analysis of the SMM shows that CLIMAT and CLIMAT TEMP reports were received within bulletins, the abbreviated headings of which are not in the catalogue of meteorological bulletins or are different from the abbreviated headings published in the catalogue. For each WMO Member, the possible examples of such inconsistencies were given in Table A-2 and B-2 sent to each country.

5. In accordance with the Manual on the GTS - Volume I -Part II - paragraph 2.3.2.2, the bulletins containing reports from stations included in the RBCNs shall be compiled into bulletins with digits ii of the abbreviated heading TTAaii CCCC in the series 01 to 19. The analysis of the SMM shows that CLIMAT and CLIMAT TEMP reports issued by ABCN/RBCNs were received within bulletins with digits ii of the abbreviated heading TTAaii CCCC in the series above 19. For each WMO Member, the possible examples were given in Table A-3 and B-3 sent to each country. The WMO Members are invited to review the content of the WMO Publication No. 9 - Volume C1 -

Catalogue of meteorological bulletins, and to send relevant required amendments to the MTN centre responsible to maintain the relevant part of the catalogue

6. The list of types of errors found in the text of the CLIMAT and CLIMAT TEMP bulletins is given in paragraph 7. For each WMO Member, the possible examples of such errors were given in Table A-4 and B-4 sent to each country, together with the suggested corrections.

7. *Statistics on the deficiencies observed as at 5 June 2004*

Reports not received during SMM exercises		
	CLIMAT reports not received	CLIMAT TEMP reports not received
1-15 October 2003	1213 out of 2595 expected reports (47 %)	214 out of 512 expected reports (42%)
1-15 January 2004	1282 out of 2595 expected reports (49%)	235 out of 511 expected reports (46%)
1-15 April 2004	1145 out of 2605 expected reports (44%)	214 out of 511 expected reports (42%)

Reports received by SMM centres in bulletins that are not included in the WMO Publication No. 9 - Volume C1 - Catalogue of meteorological bulletins or included in the catalogue with an incorrect list of stations		
	Number of CLIMAT reports	Number of CLIMAT TEMP reports
	612	85

Reports received within bulletins with digits ii of the abbreviated heading TTAaii CCCC in the series above 19		
	Number of CLIMAT reports	Number of CLIMAT TEMP reports
	82	0

Bulletins received with errors in the text			
Error Flag	Error Type Description	Number of bulletins with errors	
		CLIMAT bulletins	CLIMAT TEMP bulletins
F1	Misspelling or omitting the code name CLIMAT or CLIMAT TEMP in the first line of the text	12	27
F2	Repeating the code name CLIMAT or CLIMAT TEMP in the same bulletin	10	7
F3	Unexpected string of characters such as "PARTI", "PARTII".	19	17
F4	Repeating MMJJJ in the same bulletin	14	12
F5	Incorrect or omitted group MMJJJ	32	15
F6	Number 50 added to the MM in the group MMJJJ of the CLIMAT bulletins	0	-
F7	Incorrect sequence of the groups MMJJJ and liiii	1	0
F8	Station index liiii is not in the beginning of the line or repeated	1	0
F9	Incorrect section group (ex.111), repeated nor omitted	1	0
F10	No space between section group and group with data	0	1

F11	Section group is incorrect, omitted or incorrectly placed	16	0
F12	No space between adjacent groups	0	1
F13	There is a space inside a group	0	0
F14	Sign End of Report "=" is omitted	3	1
F15	Sign End of Report "=" repeated after each section	0	0
F16	Sign End of Bulletin is omitted	0	0
F17	CLIMAT report has been inserted into a CLIMAT TEMP bulletin	0	2
F18	The structure of presentation of the data is not that of code forms FM 71-XII or FM 75-XII	17	4
F19	The group CLIMAT MMJJJ has been inserted into a NIL bulletin	4	0
F20	BBB group missing in the abbreviated heading	15	4
Total number of bulletins received with at least one error		80 out of 398 bulletins received	57 out of 196 bulletins received

Action proposed

8. The WMO Members were invited to take the following action as soon as possible with a view to eliminating the deficiencies shown in Tables A-1, A-2, A-3, A-4, B-1, B-2, B-3, and B-4 sent to each country.

Deficiencies	Action proposed
Deficiencies shown in Tables A-1 and B-1	The WMO Members should ensure that the reports are prepared for each station and inserted into the GTS between the first and fifth day of each month.
Deficiencies shown in Tables A-2 and B-2	The WMO Members should ensure that the bulletins containing CLIMAT and CLIMAT TEMP reports are included in the WMO Publication No. 9 - Volume C1 - Catalogue of meteorological bulletins with an updated list of stations. The WMO Members are invited to review the abbreviated headings of the bulletins used to compile CLIMAT and CLIMAT TEMP bulletins, to review the content of the Catalogue of meteorological bulletins, and to send relevant required amendments to the MTN centre responsible to maintain the relevant part of the catalogue (see list in Appendix A).
Deficiencies shown in Tables A-3 and B-3	The WMO Members should ensure that the bulletins containing reports from stations included in the Regional Basic Climatological Networks (RBCNs) are compiled into bulletins with ii in the series 01 to 19. The WMO Members are invited to review the abbreviated headings of the bulletins used to compile CLIMAT and CLIMAT TEMP bulletins, to review the content of the WMO Publication No. 9 - Volume C1 - Catalogue of meteorological bulletins, and to send relevant required amendments to the MTN centre responsible to maintain the relevant part of the catalogue.
Deficiencies shown in Tables A-4 and B-4	The WMO Members are invited to consider the corrections to the text of CLIMAT and CLIMAT TEMP bulletins and to implement those corrections.

9. The results of the action taken will be monitored during the future periods of the Special MTN monitoring, starting by analysing the results of the July 2004 SMM exercise.