

WORLD METEOROLOGICAL ORGANIZATION

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REGIONAL ASSOCIATION III  
(SOUTH AMERICA)

ITEM 4

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

Original: ENGLISH

BUENOS AIRES, ARGENTINA, 16 - 20 MAY 2005

## **STATUS OF WWW IMPLEMENTATION AND OPERATION**

### **Annual global monitoring of the WWW**

*(Submitted by the Secretary-General)*

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### **Summary and Purpose of the Document**

The document contains the results of the annual global monitoring of the WWW related to SYNOP, TEMP, CLIMAT and CLIMAT TEMP reports required from Region III.

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### **ACTION PROPOSED**

The meeting is invited to consider the results of the annual global monitoring of the WWW related to SYNOP, TEMP, CLIMAT and CLIMAT TEMP reports required from Region III, and to develop recommendations to mitigate the deficiencies observed.

**Appendix:** Results of the 2004 annual global monitoring of the operation of the WWW (Sections A to F only available in English)

## RESULTS OF THE ANNUAL GLOBAL MONITORING OF THE OPERATION OF THE WWW

### Availability of SYNOP and TEMP reports

1. The Secretariat received results of the 2004 Annual Global Monitoring (AGM) from eight RA III WWW centres; four centres provided their monitoring results on electronic media and four on paper. A summary of the analysis of the results of the 2004 annual global monitoring of the operation of the WWW is given in the Appendix.

2. Table A shows the availability of SYNOP and TEMP reports during AGM exercises since the thirteenth session of RA VI (2001). The availability of SYNOP reports from RBSN stations located in Region III oscillated around 63 per cent during the period 2001-2004. There was an increase in the availability of TEMP reports during that period, from 41 per cent in 2001 and 38 per cent in 2002 to 46 per cent in 2004.

Table A

Type of data	Reports received by MTN centres during AGM exercises (1 to 15 October)				Reports expected to be prepared*
	2001	2002	2003	2004	
SYNOP	63%	64%	63%	62%	78%
Part A of TEMP	41%	38%	45%	46%	58%

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

\*According to WMO-No. 9, Vol. A (July 2004).

3. The availability of observational data from Region III is not fully satisfactory. The availability of reports was not homogeneous within the Region. There are areas from where the availability of reports was not satisfactory during the 2004 AGM:

- No SYNOP reports were received from Ecuador. Less than 50 per cent of the expected reports were received from Colombia, Guyana, Peru, Suriname and Venezuela.
- No TEMP reports were received from Bolivia, Ecuador, Guyana, Paraguay and Venezuela. Less than 31 per cent of the expected reports were received from Argentina, Colombia and Peru.

4. As regards the timeliness of the reception on the MTN, 60, 61 and 62 per cent of the required SYNOP reports were available on the MTN within one hour, two and six hours, respectively, after the time of observation; 44 and 46 per cent of the required TEMP reports were available on the MTN within two and twelve hours, respectively, after the time of observation.

5. The availability of SYNOP reports was only 30 per cent for 06 UTC compared to more than 60 per cent for the other hours of observation. The availability of TEMP reports was only 32 per cent for 00 UTC compared to 61 per cent for 12 UTC.

6. Section C of the Appendix gives the list of silent stations for which SYNOP (64 stations) and TEMP (18 stations) reports were not received by MTN centres during the 2004 AGM. Section D gives the list of stations from which SYNOP and TEMP reports were

received, although these stations were not indicated as implemented in Volume A of WMO Publication No. 9.

### Availability of CLIMAT and CLIMAT TEMP reports

7. Table B shows the availability of CLIMAT and CLIMAT TEMP reports during AGM exercises since the creation of the RBCN by the thirteenth session of RA VI in 2001. The availability of CLIMAT reports from RBCN stations located in Region III oscillated around 70 per cent during the period 2001-2004. There was an increase in the availability of TEMP reports during that period from 59 percent in 2002 to 65 per cent in 2004.

*Table B*

Type of data	Reports received by MTN centres during AGM exercises (1 to 15 October)			Reports expected to be prepared*
	2002	2003	2004	
CLIMAT	68%	73%	70%	95%
CLIMAT TEMP	59%	63%	65%	88%

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

\*According to WMO-No. 9, Vol. A (July 2004).

8. The list of silent stations for which CLIMAT (99 stations) and CLIMAT TEMP (17 stations) reports were not received by MTN centres during the 2004 AGM is given in Section E of the Appendix. There are areas from where the availability of reports was not satisfactory, in particular:

- No CLIMAT reports were received from Bolivia, Ecuador, Guyana and Suriname. Less than 50 per cent of the expected reports were received from Peru.
- No CLIMAT TEMP reports were received from Colombia, Ecuador, French Guyana and Venezuela. Thirty-eight per cent of the expected reports were received from Argentina

9. The analysis of the Annual Global Monitoring (AGM) and of the Special MTN Monitoring (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 had investigated deficiencies in the application of WMO standards in the presentation of CLIMAT and CLIMAT TEMP bulletins. A summary of the findings is available from [http://www.wmo.int/web/www/WDM/Documentation/Deficiencies-CLIMAT\\_CL-TEMP.pdf](http://www.wmo.int/web/www/WDM/Documentation/Deficiencies-CLIMAT_CL-TEMP.pdf).

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.

## **Appendix**

### **Results of the 2004 annual global monitoring of the operation of the WWW**

Section A: Availability of SYNOP reports at the NMC, associated RTN and at MTN centres

Section B: Availability of TEMP at the NMC, associated RTN and at MTN centres

Section C: List of silent RBSN stations

Section D: List of stations from which SYNOP and TEMP reports were received, although these stations were not indicated as implemented in Volume A of WMO Publication No. 9.

Section E: List of silent RBCN stations

Section F: Charts showing the availability of SYNOP (00, 06, 12 and 18 UTC) and TEMP reports (00 and 12 UTC, 00 UTC and 12 UTC) from RBSN stations

**RESULTS OF THE ANNUAL GLOBAL MONITORING OF THE OPERATION OF THE WWW**

Availability of SYNOP reports from Region III (Format 1)

Monitoring period: 1 to 5 October 2004

(a) Geographical location	(b) Number of stations in the RBSN	(c) Monitoring period (days) NMC RTH MTN			(d) Stations monitored (%) NMC RTH MTN			Percentage of reports expected from implemented stations (reference Volume A edition October 20004) and actually received at centres (within 6 hours of the observation time)																			
								(e) 0000 UTC				(f) 0600 UTC				(g) 1200 UTC				(h) 1800 UTC				(i) Total			
								Impl.	NMC	RTH	MTN	Impl.	NMC	RTH	MTN	Impl.	NMC	RTH	MTN	Impl.	NMC	RTH	MTN	Impl.	NMC	RTH	MTN
<b>RTH Brasilia</b>																											
Brazil	161	5	5	5	100	100	100	90	92	92	92	16	16	16	16	92	97	97	97	92	90	90	90	72	74	74	74
Total:	161	5	5	5	100	100	100	90	92	92	92	16	16	16	16	92	97	97	97	92	90	90	90	72	74	74	74
<b>RTH Buenos Aires</b>																											
Argentina	68	5	5	5	100	100	100	99	92	92	92	91	82	82	82	99	93	93	93	99	93	93	93	97	90	90	90
Bolivia	29	5	5	5	100	100	100	10	0	7	7	7	0	7	7	100	0	98	98	100	0	96	96	54	0	52	52
Chile	25	15	5	5	100	100	100	88	70	70	70	48	48	48	48	92	77	73	73	96	85	86	86	81	70	69	69
Paraguay	19	5	5	5	100	100	100	95	100	78	78	68	100	37	37	95	100	82	87	95	100	82	86	88	100	70	72
Peru	42	0	5	5	0	100	100	86	NR	21	21	29	NR	19	19	93	NR	25	32	95	NR	50	50	76	NR	29	31
Uruguay	9	5	5	5	100	100	100	100	56	91	91	89	56	53	67	100	56	100	100	100	56	100	100	97	56	86	89
Total:	192	5	5	5	78	100	100	81		59	59	57		46	47	96		75	78	97		82	83	83		66	67
<b>RTH Maracay</b>																											
Colombia	28	0	5	5	0	0	100	32	NR	NM	6	18	NR	NM	8	86	NR	NM	16	86	NR	NM	6	55	NR	NM	9
Ecuador	13	0	5	5	0	0	100	77	NR	NM	0	15	NR	NM	0	100	NR	NM	0	100	NR	NM	0	73	NR	NM	0
French Guiana	4	15	5	5	100	0	100	100	68	NM	50	25	98	NM	95	100	98	NM	100	100	92	NM	85	81	89	NM	83
Guyana	6	0	5	5	0	0	100	17	NR	NM	13	17	NR	NM	13	100	NR	NM	17	100	NR	NM	13	58	NR	NM	14
Suriname	7	0	5	5	0	0	100	100	NR	NM	20	86	NR	NM	0	100	NR	NM	54	100	NR	NM	9	96	NR	NM	21
Venezuela	22	5	5	5	0	0	100	100	NM	NM	38	95	NM	NM	23	100	NM	NM	24	100	NM	NM	27	99	NM	NM	28
Total:	80	5	5	5	5	0	100	66			18	45			15	95			23	95			16	75			18
<b>No RTH responsible for these countries/ areas</b>																											
Falkland Islands	2	0	5	5	0	0	100	50	NR		50	50	NR		50	100	NR		50	100	NR		50	75	NR		50
Total:	2	0	5	5	0	0	100	50	NR		50	50	NR		50	100	NR		50	100	NR		50	75	NR		50
<b>Total</b>																											
Total Region III:	435	5	5	5	72	81	100	81		64	39	29			29	94			75	95			73	78			60

NM = Reply received, but not including the appropriate monitoring results.  
 NR = No reply received from the centre concerned.

**RESULTS OF THE ANNUAL GLOBAL MONITORING OF THE OPERATION OF THE WWW**

Availability of TEMP reports from Region III (Format 1)

Monitoring period: 1 to 15 October 2004

(a) Geographical Location	(b) Numbe station in the RBSN	(c) Monitoring (days) NMC RTH			(d) Stationsmo (%) NMC RTH			Percentage of reports expected from implemented stations (reference Volume A)											
								(e) 0000 UTC				(a) 1200 UTC				(i) Total			
								Impl.	NMC	RTH		Impl.	NMC	RTH		Impl.	NMC	RTH	
<b>RTH Brasilia</b>																			
Brazil	26	15	15	15	10	10	100	35	57	57	57	92	88	88	88	63	73	73	73
Total:	26	15	15	15	10	10	100	35	57	57	57	92	88	88	88	63	73	73	73
<b>RTH Buenos Aires</b>																			
Argentina	8	15	15	15	10	10	100	13	0	0	0	100	62	62	62	56	31	31	31
Bolivia	2	15	15	15	0	10	100	0	NM	0	0	50	NM	0	0	25	NM	0	0
Chile	7	15	15	15	10	10	100	43	29	28	28	57	57	57	57	50	43	42	42
Paraguay	1	5	15	15	0	10	100	0	NM	0	0	100	NM	0	0	50	NM	0	0
Peru	2	0	15	15	0	10	100	0	NR	0	0	100	NR	40	50	50	NR	20	25
Total:	20	15	15	15	10	100		20		10	10	80		49	50	50		29	30
<b>RTH Maracay</b>																			
Colombia	3	0	0	15	0	0	100	33	NR	NR	0	100	NR	NR	18	67	NR	NR	9
Ecuador	2	0	0	15	0	0	100	50	NR	NR	0	0	NR	NR	0	25	NR	NR	0
French Guiana	1	15	0	15	10	0	100	100	87	NR	87	100	100	NR	100	100	93	NR	93
Guyana	1	0	0	15	0	0	100	0	NR	NR	0	0	NR	NR	0	0	NR	NR	0
Venezuela	4	5	0	15	0	0	100	25	NM	NR	0	100	NM	NR	0	63	NM	NR	0
Total:	11			15	9	0	100	36			8	73			14	55			11
<b>No RTH responsible for these countries/ areas</b>																			
Falkland	1	0		15	0		100	100	NR		10	100	NR		87	100	NR		93
Total:	1	0		15	0		100	100	NR		10	100	NR		87	100	NR		93
<b>Total</b>																			
Total Region	58			15	79		100	31			32	84			61	58			46

**RESULTS OF THE ANNUAL GLOBAL MONITORING OF THE OPERATION OF THE WWW**

List of silent stations from RBSN in RA III at the level of MTN centres

Monitoring period: 1 to 15 October 2004

<b><i>SYNOP reports</i></b>	
<b><i>Location</i></b>	<b><i>Silent stations</i></b>
Argentina	87007 87171 87640
Brazil	82240
Chile	85460 85486 85543
Colombia	80035 80089 80241 80252 80308 80322 80337 80361 80372
Ecuador	84001 84008 84018 84071 84099 84101 84132 84140 84179 84200 84203 84239 84265
Falkland Islands	88903
Guyana	81005 81006 81010 81080
Paraguay	86125
Peru	84331 84396 84405 84478 84505 84560 84567 84570 84593 84630 84670 84677 84680 84695 84705 84710 84721 84760 84775
Suriname	81250 81253 81260
Venezuela	80405 80423 80425 80453 80462 80476 80478
Total:	64 stations.

<b><i>TEMP reports Part A</i></b>	
<b><i>Location</i></b>	<b><i>Silent stations</i></b>
Argentina	87047 87418 87715
Bolivia	85201 85245
Brazil	83498
Chile	85585 85682
Colombia	80398
Ecuador	84008 84203
Guyana	81002
Paraguay	86218
Peru	84377
Venezuela	80413 80447 80462 80476
Total:	18 stations.

**RESULTS OF THE ANNUAL GLOBAL MONITORING OF THE OPERATION OF THE WWW**  
 List of stations in RA III for which reports were received although not mentioned as prepared in Volume A  
 Monitoring period: 1 to 15 October 2004

<b>SYNOP reports</b>	
<b>(a) Location</b>	<b>(b) Index Number</b> <i>(Reference: Volume A, October 2004)</i>
Brazil	82143 83566 83746
Chile	85834
Paraguay	86170
Total:	5 stations.

<b>TEMP reports Part A</b>	
<b>(a) Location</b>	<b>(b) Index Number</b> <i>(Reference: Volume A, October 2004)</i>
Brazil	83566 83928
Total:	2 stations.



**RESULTS OF THE ANNUAL GLOBAL MONITORING OF THE OPERATION OF THE WWW**

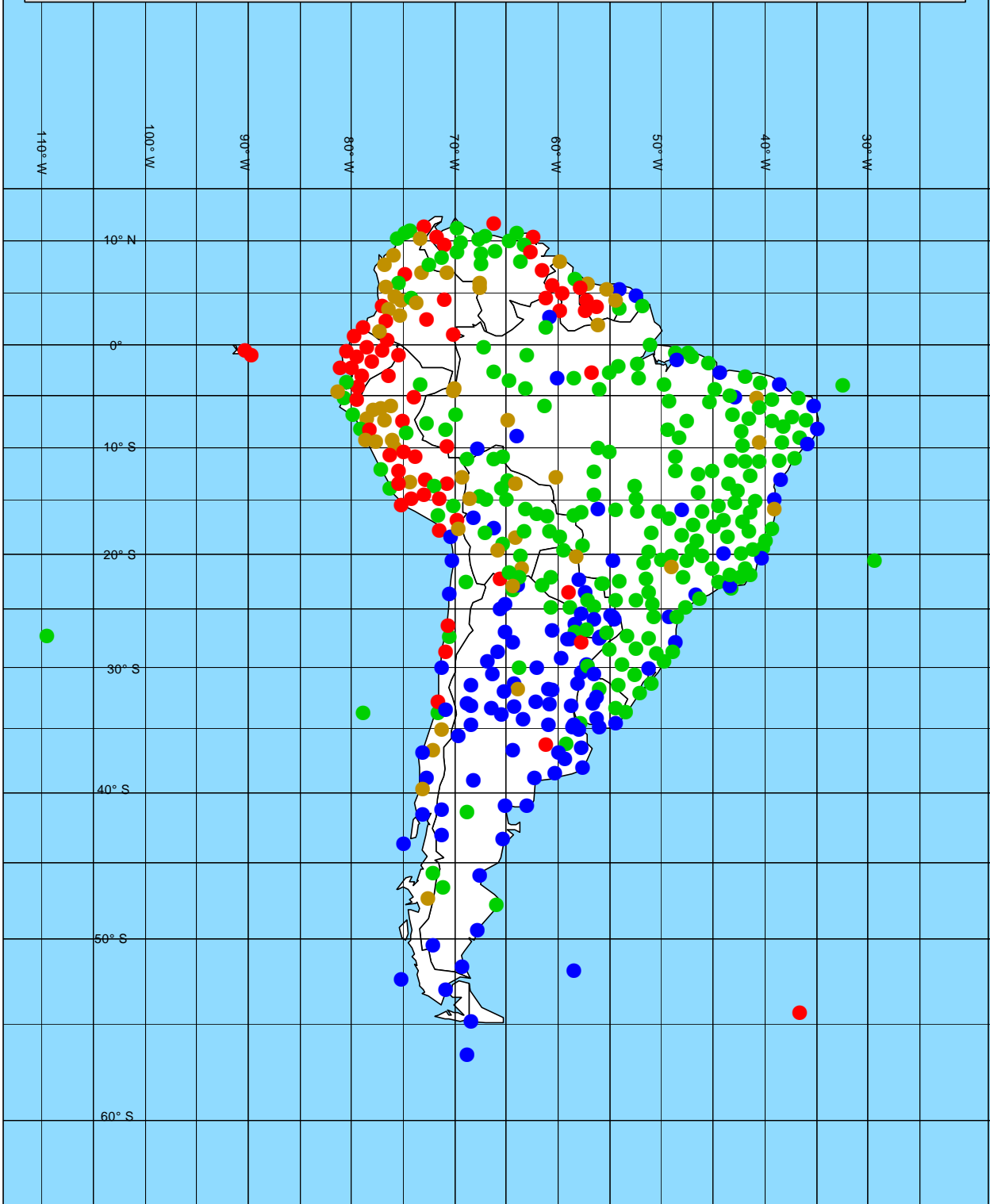
List of silent stations from RBCN in RA III at the level of MTN centres

Monitoring period: 1 to 15 October 2004

<b>CLIMAT reports</b>		
<b>Location</b>	<b>Silent stations</b>	<b>GSN stations</b>
Argentina	87046 87065 87078 87148 87155 87420 87596 87640 87814 87934	87065 87078 87148 87155
Bolivia	85041 85043 85104 85114 85141 85152 85154 85175 85201 85207 85223 85230 85244 85245 85268 85283 85289 85315 85364 85365	85041 85043 85114 85141 85207 85223 85230 85289 85364 85365
Brazil	82098 82191 82246 82280 82326 82331 82336 82410 82425 82445 82460 82533 82562 82571 82704 82723 82765 82915 83064 83208 83235 83332 83423 83552 83783	82331 82410 82425 82571 82704 83064
Chile	85448	
Colombia	80035 80211	
Ecuador	84008 84071 84088 84135 84140 84203 84270 84279	84008 84088 84140 84270 84279
French Guiana	81401	
Guyana	81002	
Paraguay	86246 86255 86260 86297	86297
Peru	84390 84405 84425 84435 84444 84472 84474 84531 84534 84542 84564 84658 84670 84673 84677 84680 84721 84773	84444 84721
Suriname	81202	81202
Uruguay	86370	
Venezuela	80405 80418 80440 80442 80444 80478 80479	80405 80418
Total:	99 stations.	31 stations.

<b>CLIMAT TEMP reports</b>		
<b>Location</b>	<b>Silent stations</b>	<b>GUAN stations</b>
Argentina	87047 87418 87623 87715 87860	87860
Brazil	82400 82824 83498	
Colombia	80035 80222 80241 80398	80222
Ecuador	84008	84008
French Guiana	81405	81405
Venezuela	80413 80447 80462	
Total:	17 stations.	4 stations.

**Availability of SYNOP reports received from RBSN stations in Region III**  
(calculation based on the main synoptic hours 0000, 0600, 1200 and 1800 UTC)  
Monitoring period: 1 to 15 October 2004

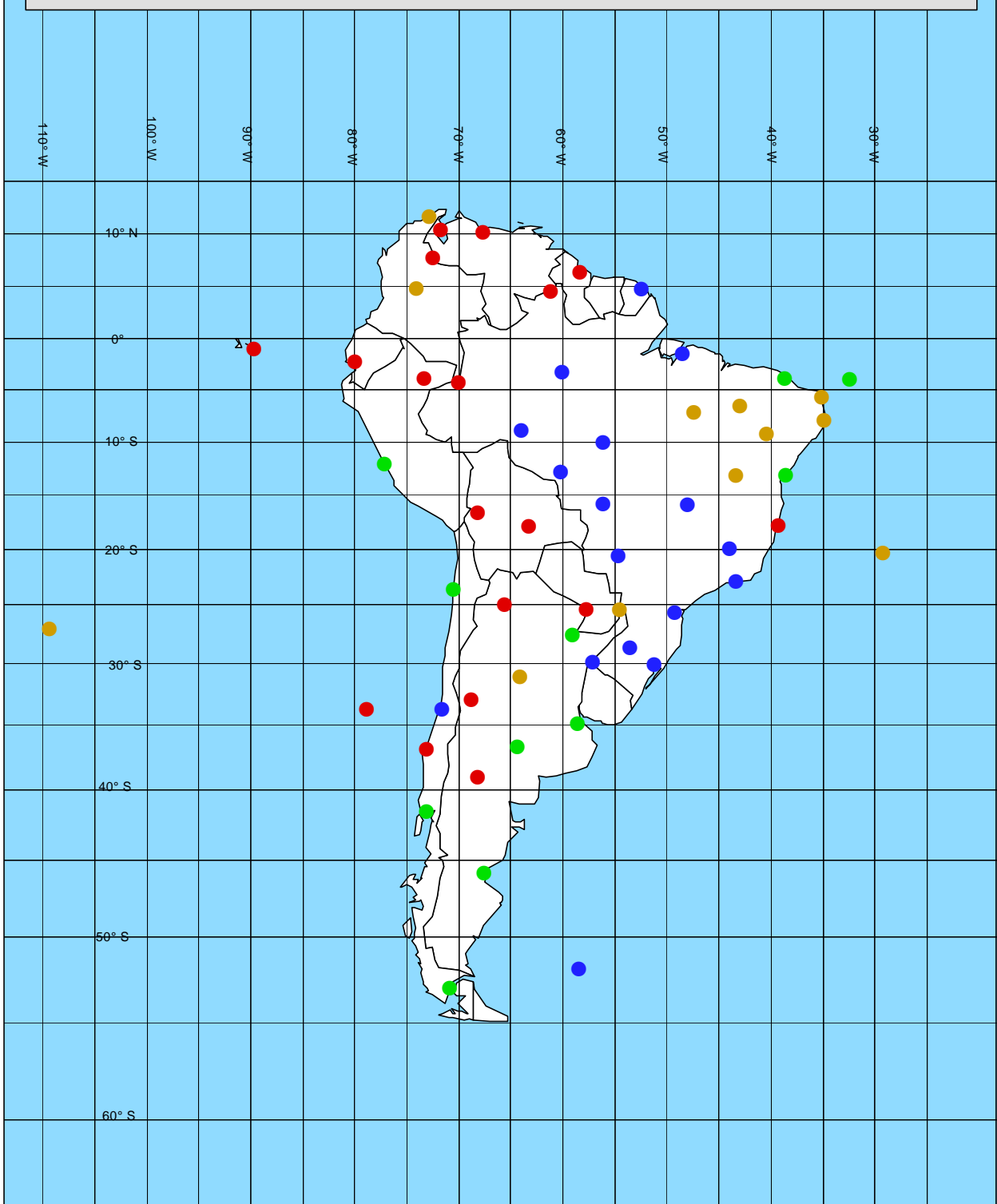


- 90% to 100% (110)
- 50% to 90% (209)
- 1% to 50% (52)
- silent stations (64)

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.

**WMO Secretariat**

**Availability of TEMP reports received from RBSN stations in Region III**  
 (calculation based on 0000 and 1200 UTC observations)  
 Monitoring period: 1 to 15 October 2004

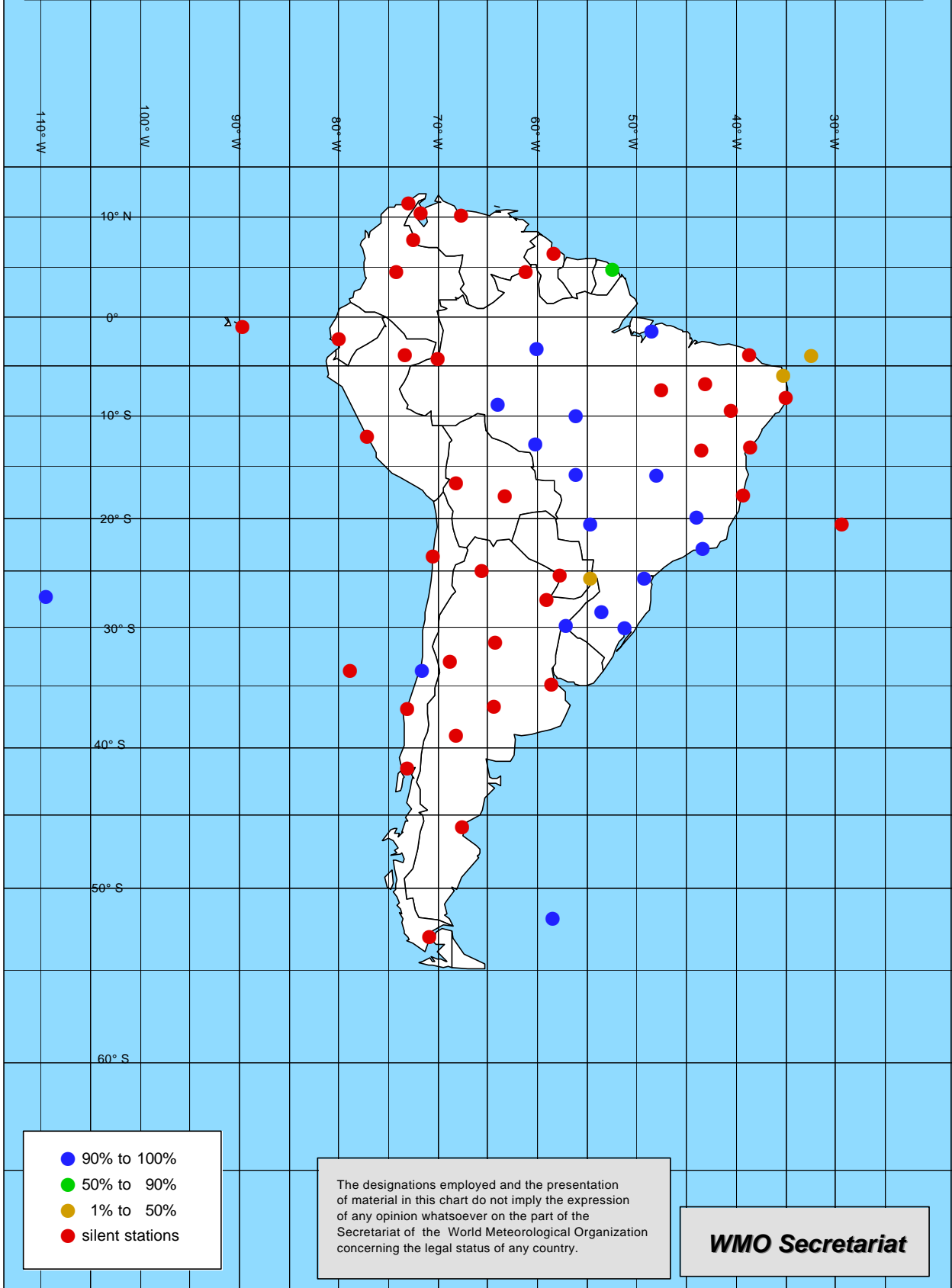


- 90% to 100% (17)
- 50% to 90% (11)
- 1% to 50% (12)
- silent stations (18)

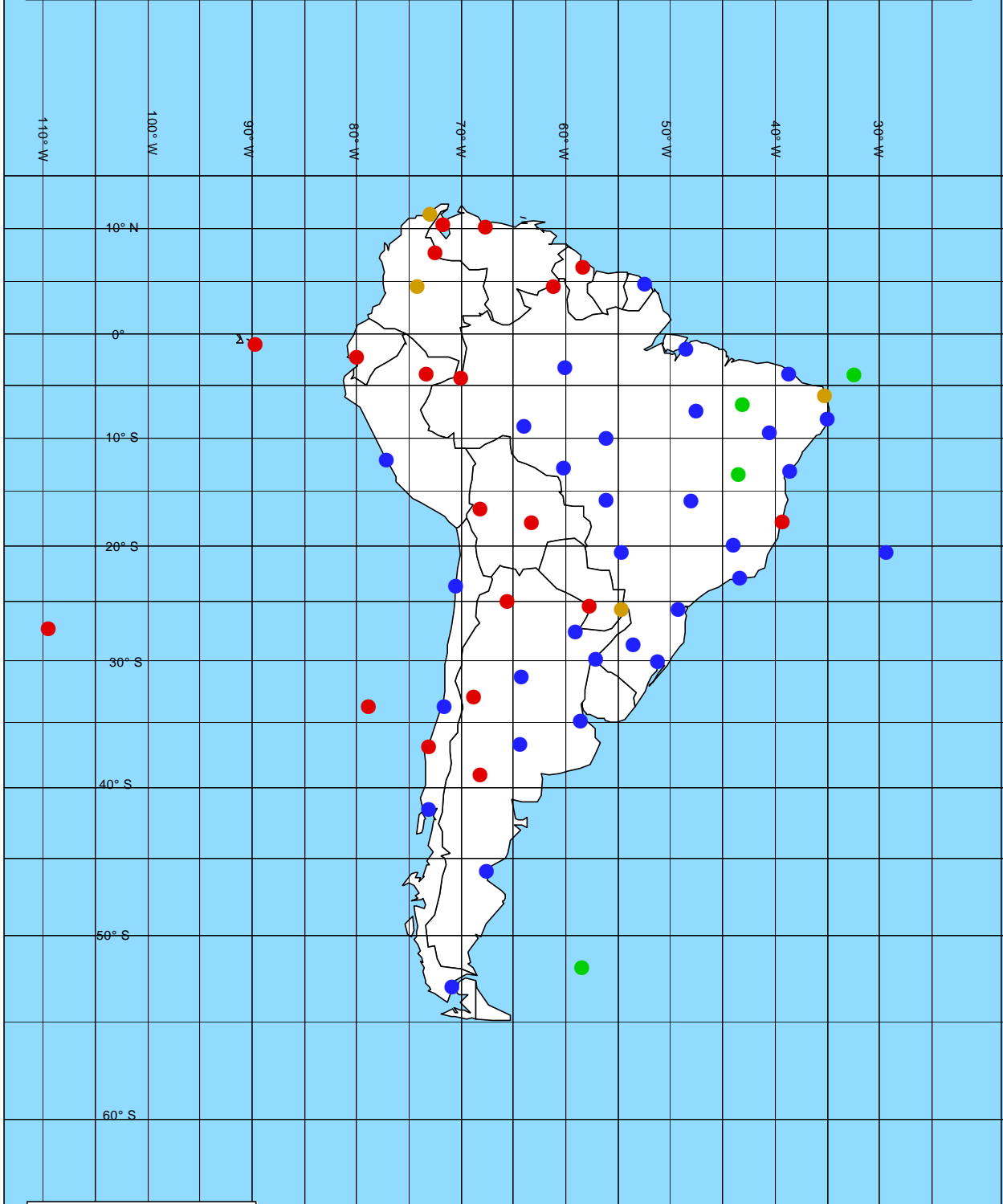
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**WMO Secretariat**

**Availability of TEMP reports received from RBSN stations in Region III**  
(calculation based on 0000 UTC observation)  
Monitoring period: 1 to 15 October 2004



**Availability of TEMP reports received from RBSN stations in Region III**  
(calculation based on 1200 UTC observation)  
Monitoring period: 1 to 15 October 2004



- 90% to 100%
- 50% to 90%
- 1% to 50%
- silent stations

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**WMO Secretariat**