AERMETSG/4
WP/04
24/04/00

INTERNATIONAL CIVIL AVIATION ORGANIZATION

CAR/SAM REGIONAL PLANNING AND IMPLEMENTATION GROUP (GREPECAS)

FOURTH MEETING OF THE AERONAUTICAL METEOROLOGY SUBGROUP (AERMETSG/4)

(Mexico City, 22 to 26 May 2000)

Item 4: **Review of the exchange of OPMET information**

(Presented by the Secretariat)

Summary

This working paper contains a summary of the results obtained in the OPMET information exchange control performed in twelve (12) States of the SAM Region participating in this control, in accordance with the established at previous COM/MET Implementation Meetings and at the GREPECAS/7 Meeting. Likewise, preliminary results of the COM/MET SIP are included in this paper.

REFERENCES:

- GREPECAS/6 Report (Mexico City, October 1996), GREPECAS/7 Report (Lima, October 1997) and GREPECAS/8 Report (Dominican Republic, November 1998)
- CAR/SAM ANP (Vol I Basic ANP y Vol II FASID)
- COM/MET SIP reports of several SAM States
- Results of the Brasilia OPMET international data bank control, corresponding to the period 9 to 16 June 1999.

5. Introduction

1.1 AERMET Subgroup previous meetings and the corresponding GREPECAS meetings have analyzed the results obtained from the OPMET information exchange controls performed by twelve (12) States of the SAM Region since 1996, in compliance with the established on this subject at previous implementation meetings and with Conclusion 7/37 of the GREPECAS/7 Meeting. Based on the results obtained from the referred controls, it was agreed at GREPECAS/8 Meeting that differences continue arising between OPMET information that should be disseminated in accordance with FASID MET 2 and FASID MET 2 A Tables requirements and the corresponding information received at MET Offices.

1.2 In this sense, the Meeting formulated Conclusion 8/25 - COM/MET Special Implementation Project for the CAR/SAM Regions, addressed, in its first phase, to the SAM Region, aimed at promoting and ensuring the regularity of OPMET information in this Region.

2. Preliminary results of the COM/MET Special Implementation Project for the CAR/SAM Regions, First Phase, from the MET point of view.

2.1 SIP COM/MET objective and current status

2.1.1 Based on GREPECAS Conclusion 8/25, ICAO Council approved the mentioned Project, which started its activities in November 1999. As of this date, the first phase of the Project has been carried out in 10 SAM States through short visits held by a MET and a CNS experts, represented by the CNS and MET Regional Officers of the ICAO SAM Office. The Project is totally financed by the Organization and has been included within ICAO mechanisms aimed at strengthening air navigation regional plans; its finalization is foreseen for June 2000. The objectives of the project are:

a) to strengthen the coordination among MET dependencies and other operational dependencies in the SAM States;

b) to assist States in the identification of difficulties related to OPMET information exchange; and

c) to develop suitable recommendations regarding identified problems, aimed at achieving that OPMET information and its exchange be reliable and efficient, as well as available, in accordance with the requirements of FASID MET 2 and FASID MET 2A tables.

2.2 OPMET information exchange controls in the SAM States

2.2.1 Based on the analysis made by ICAO SAM Office on the last four years results of OPMET information exchange controls carried out by most of the SAM States (12), which analysis corresponding to 1998 and 1999 is included as **Appendix A,** the Project discussed with CNS and MET officers of each of the States visited, the OPMET information sent and received by the States participating in the control. It is important to emphasize that results in Appendix A include only regular exchange OPMET messages with transit times shorter than 5 minutes.

2.2.2 The Project analyzed the forms used for the OPMET exchange control and agreed that the same should be reviewed in order that they:

- reflect the operation hours of stations not working 24 hours a day;
- include only transit times recommended in Annex 3:
- include AFTN address to which OPMET information should be sent;
- include transmitted OPMET information;
- include OPMET information received through the ISCS1;
- consolidate the OPMET exchange control in a unique form, in order to facilitate its exchange among the States of the Region and ICAO Regional Office.

2.2.3 In this context, the Project elaborated a draft format, included as **Appendix B**, to be presented at the Meeting. Furthermore, the Project deemed convenient to continue with OPMET exchange controls for a 2-year additional period. Based on the above, the following draft conclusion was suggested to the Meeting:

DRAFT CONCLUSION 4/ OPMET information exchange control forms

That,

a) the States of the CAR/SAM Regions carry out the OPMET information exchange control up to year 2002, in accordance with the exchange requirements of FASID MET 2 and FASID MET 2A tables; and

b) forms included in Appendix __ to this report be used to carry out the referred controls in accordance to periods and criteria in force.

2.2.4 Likewise, the project verified that some States include within the OPMET exchange control, OPMET messages corresponding to non-regular exchange and that amendments made to FASID MET2 and FASID MET 2A tables are not reflected in the OPMET exchange controls, which difficult the analysis of the same.

2.3 **Abbreviated OMM heading - TTAAii CCC YYGGgg**

2.3.1 The project verified that a considerable number of OPMET messages received at the Brasilia international OPMET data bank are rejected due to errors in the coding of the OMM abbreviated heading. Likewise, it was verified that for most States visited it is not clear enough the utilization of such heading, particulary regarding “ii” characters.

2.3.2 Based on the above, the Project considered convenient to study the possibility of standardizing the numbers to be used in the “ii” characters in the CAR/SAM States, for such reports which utilization it is not clear enough; therefore, it was deemed convenient to address this matter to the AERMETSG, aimed at achieving that the States, together with the States provider of international OPMET information services propose, should it be the case, fixed numbers to be used for the referred characters.

2.4 **OPMET information exchange requirements based on FASID MET 2 and FASID MET 2A Tables**

2.4.1 Based on the controls carried out by the Brasilia international OPMET data bank, it was verified that most of the visited States send OPMET information to other States, particularly to the Brasilia bank, without taking into account the FASID MET 2 and FASID MET 2A requirements; thus, from a large number of airport MET stations not appearing in the CAR/SAM ANP, FASID Table AOP 1.

2.4.2 The meeting could note the inconveniences arisen from this situation, with regard to corrections being manually made by the Brasilia bank to reports arriving with errors and the increase of the workload due to the need to correct a large number of reports originated at stations that are not required by the CAR/SAM ANP.

2.4.3 Likewise, it was verified that, at several States, OPMET information is being disseminated without considering the provisions of the CAR/SAM ANP Basic, with regard to dissemination of non-regular exchange OPMET messages, in the sense that States are sending non-regular METAR and TAF to States, instead of performing this exchange only through the Brasilia international OPMET data bank.

2.5 **International Satellite Communications System - ISCS1**

2.5.1 The Project was informed that, occasionally, OPMET messages transmitted by some States through the ISCS1 arrive with errors or slightly modified in comparison to messages originally sent and that some OPMET messages from other States are received several times, but that, on some opportunities, messages having the same time and station are different. Likewise, it was informed that occasionally information transmitted by the ISCS1 gets lost or does not arrive, which was verified by the Project through tests made with Guyana and French Guiana, since both States count with two-way VSATs.

2.5.2 In this sense, the Project formulated a Recommendation (French Guiana 09) in order that the AERMETSG analyze, together with the CAR/SAM States and the ISCS provider State, the OPMET information received and transmitted through this system, aimed at the identification of difficulties and proposal of improvement measures.

2.5.3 Depending on discussions on this subject, the meeting could consider convenient to formulate a conclusion aimed at starting the second phase of the COM/MET SIP, addressed to the CAR Region, where most States count with a two-way VSAT.

2.6 **Status of implementation of GREPECAS Conclusions**

2.6.1 Another inconvenience identified by the Project refers to the lack of implementation of GREPECAS Conclusion 6/33, which was formulated in order to improve OPMET information exchange (see AERMETSG/4-IP/02).

2.7 **National procedures for OPMET information quality control**

2.7.1 Based on the control performed twice a year by the Brasilia OPMET international data bank, it was noted that States of several ICAO Regions are still making errors in the OPMET messages coding.

2.8 **General recommendation from the COM/MET SIP**

2.8.1 Aimed at improving OPMET information exchange, the Project suggests a general recommendation, which is formulated as the following draft conclusion:

DRAFT CONCLUSION 4/ OPMET information exchange in the CAR/SAM States

That, with the purpose of improving OPMET information exchange, Administrations of the CAR/SAM States make their best efforts in order to:

a) create coordination committees among AIS/ATM/CNS/MET dependencies, addressed to the establishment of operational procedures related to the collection and exchange of OPMET information; and

b) establish mechanisms for quality control of the OPMET exchange messages.

2.8.2 Likewise, it is important to emphasize that the Project verified that, at several States where GREPECAS Conclusion 6/33 has not been implemented, CNS dependencies are not informed on amendments made to FASID MET 2 and FASID MET 2A Tables, which causes that OPMET data transmission is not made in accordance with the referred tables.

2.8.3 In this sense and for the meeting information, **Appendix C** provides a sample form used by a State visited during the COM/MET SIP to inform CNS dependencies on OPMET information that should be transmitted internationally at the referred State, based on requirements of FASID MET 2 and FASID MET 2A tables.

3 **Forms to propose amendments to FASID MET 2 and FASID MET 2A Tables**

3.1 Considering that RAN CAR/SAM/3 Recommendations 8/1 and 8/2 (October 1999) modified the forms and contents of Tables MET 2 and MET 2A, respectively, the meeting could agree to use suitable forms to propose amendments to the referred tables. In this sense, **Appendix D** includes draft forms to propose such amendments. In this context, the following draft conclusion is proposed:

DRAFT CONCLUSIÓN 4/ Forms to propose amendments to FASID MET 2 and FASID MET 2A Tables

That, with the purpose of proposing amendments to FASID MET 2 and FASID MET 2A Tables, CAR/SAM States use the forms included in Appendix __ to this report.

3. **Proposed action**

3.1 The meeting is invited to:

a) Consider the information contained in this working paper; and

b) Adopt the pertinent actions.

- - - - - -

STATE/ESTADO			1998 10-16 Jun							1998 10-16 Nov							1999 10-16 Jun							1999 10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
ARGENTINA SAEZYMYX																														
SBBR	BRASILIA	F - S								99	96	9	34			75	83	79	0	11			0	99	93	9	26			9
SBCG	CAMPO GRANDE	F								96	100	4					83	82	1					83	93	1				
SBEG	MANAUS	T									100							82							96					
SBFI	FOZ DO IGUACU	F								97	100	0					84	82	7					93	14	0				
SBGL	RIO DE JANEIRO	F								100	100	2					84	79	1					98	96	1				
SBGR	SAO PAULO	F								99	100	8					84	82	25					94	96	4				
SBKP	CAMPINAS	F								100	100	3					85	82	10					93	96	0				
SBPA	PORTO ALEGRE	F								97	100	0	0			0	85	82	5	0			0	96	93	0	0			0
SBRF	RECIFE	T									100							86							79					
SBSV	SALVADOR	T									100							86							79					
AVERAGE/PROMEDIO										98	100						84	82						94	84					
SCAR	ARICA	F								100	82	0					85	61	0					100	71	0				
SCCI	PUNTA ARENAS	F - S								99	100	0	0			0	85	54	0	0			0	95	96	0	0			0
SCEL	SANTIAGO	F - S								100	100	0	0			0	84	79	1	0			0	100	100	0	0			0
SCFA	ANTOFAGASTA	F - S								100	82	0	0			0	84	61	0	0			0	99	75	0	0			0
SCIE	CONCEPCION	F								99	100	0					85	79	0					100	100	0				
SCTE	PUERTO MONTT	F								98	100	0					83	82	0					100	100	0				
AVERAGE/PROMEDIO										100	94						84	69						99	90					
SEGU	GUAYAQUIL	T									93							75							100					
SEQU	QUITO	T									93							75							100					
AVERAGE/PROMEDIO											93							75							100					
SGAS	ASUNCION	F								98	96	1					85	79	10					74	57	3				
SKBO	BOGOTA	T									96							71							100					
SKCL	CALI	T									96							71							100					
AVERAGE/PROMEDIO											96							71							100					
SLCB	COCHABAMBA	F	80	75	0					93	89	0					80	75	0					96	82	0				
SLLP	LA PAZ	F - S	81	75	1	0			5	95	93	1	0			0	81	75	1	0			5	96	82	4	0			50
SLVR	SANTA CRUZ/VIRU VIRU	F	80	75	0					95	93	0					80	75	0					96	82	0				
AVERAGE/PROMEDIO			80	75						94	92						80	75						96	82					
SPIM	LIMA-CALLAO	T - S		79		1			20		93		0			1		79		1			20		100		0			9
SPSO	PISCO	T		79							93							79							100					
SPYL	TALARA	T																												
AVERAGE/PROMEDIO				79							93							79							100					
SUAA	MONTEVIDEO/A.S. ADAMI	F	69	82	0					89	93	0					69	82	0					100	96	0				
SUCA	COLONIA	F	43	82	0					81	93	0					43	82	0					70	96	0				
SULS	MALDONADO	F	69	82	0					102	93	1					69	82	0					112	96	0				
SUMU	MONTEVIDEO/CARRASCO	F - S	84	82	8	0			0	100	100	8	0			0	84	82	8	0			0	96	96	1	0			0
SUPE	PUNTA DEL ESTE	F	46	82	0					99	93	0					46	82	0					73	96	0				
AVERAGE/PROMEDIO			62	82						94	94						62	82						90	96					
SVMC	MARACAIBO	T		79							82							79							82					
SVMG	MARGARITA	T		79							82							79							82					
SVMI	CARACAS	T		79							82							79							82					
AVERAGE/PROMEDIO				79							82							79							82					

F = METAR/SPECI + TAF Regular

T = TAF - Regular

S=AIREP(A),SIGMET(WS) y SIGMET(WC-WV)relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A),SIGMET(WS) and SIGMET(WC-WV)related with volcanic ash clouds and tropical cyclones.

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 abril 1996)

TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril de 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment, Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment, Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

STATE/ESTADO			1998 10-16 Jun							1998 10-16 Nov							1999 10-16 Jun							1999 10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
BOLIVIA																														
SLZZMAMX																														
MPTO	PANAMA/TOCUMEN	T - S		71							75							0							61					
SABE	BUENOS AIRES	F - S	39	36						70	79						93	93						90	93					
SACO	CORDOBA	F - S	38	39						76	79	5	1				90	61						93	89					
SAEZ	BUENOS AIRES/EZEIZA	F - S	40	43						80	86	9	2				99	96						95	93					
SAME	MENDOZA	F	35	39						61	75	1					92	93						91	89					
SARE	RESISTENCIA	F - S	35	39					30	60	71	2					96	93						93	93					
SASA	SALTA	F	40	43						76	64						82	96						85	82					
SASJ	JUJUY	F	40	39						71	71						90	32						92	82					
AVERAGE/PROMEDIO			38	40						71	75						91.7	80.6						91.3	88.7					
SBBE	BELEM	F	86	93					1	89	86		2				86	89						89	89					
SBBR	BRASILIA	F - S	85	96						89	89						90	96						89	93					
SBEG	MANAUS	F - S	90	93	3				28	88	86	4	4				79	100						84	93					
SBGL	RIO DE JANEIRO	F	97	89						88	93	5					85	96						98	93					
SBGR	SAO PAULO	F - S	86	93						88	93	1					82	89						89	93					
SBKP	CAMPINAS	F	83	82						86	79						80	93						88	96					
SBPA	PORTO ALEGRE	T		96							89							93							89					
SBSN	SANTAREM	F	91	93						85	86						65	89						80	93					
AVERAGE/PROMEDIO			88	92						88	88						81	93.1						87.6	87.6					
SCAR	ARICA	F	82	93						85	89						93	89						93	93					
SCDA	IQUIQUE	F	74	93						85	89						93	89						93	93					
SCEL	SANTIAGO	F - S	74	93						85	89						92	89						96	93					
SCFA	ANTOFAGASTA	F - S	83	93						78	89						92	89						96	93					
AVERAGE/PROMEDIO			78	93						83	89						92.5	89						94.5	93					
SEGU	GUAYAQUIL	F - S	72	89						76	75						93	89						98	89					
SEQU	QUITO	F	72	89						76	75						93	89						98	89					
AVERAGE/PROMEDIO			72	89						76	75						93	89						98	89					
SGAS	ASUNCION	F - S	47	82						72	79	1					88	93						92	93					
SKBO	BOGOTA	F - S	67	93						72	86	6					88	93						89	93					
SKCL	CALI	F	67	93						72	86						88	93						89	93					
SKLT	LETICIA	F	67	93						72	86						88	93						89	93					
AVERAGE/PROMEDIO			67	93						72	86						88	93						89	93					
SPIM	LIMA-CALLAO	F - S	86	89						91	89	1					100	100						96	100					
SPSO	PISCO	F	86	89						91	89						100	100						96	100					
SPZO	CUZCO	F	86	89						91	89	5					100	100						96	100					
AVERAGE/PROMEDIO			86	89						91	89						100	100						96	100					
SUMU	MONTEVIDEO	F	80	75						80	75	3					88	86						92	89					
SVMC	MARACAIBO	T		75							64							86							89					
SVMI	CARACAS	F - S	73	75						73	64						77	86						98	89					
AVERAGE/PROMEDIO			73	75						73	64						77	86						98	89					

F = METAR/SPECI + TAF Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones.

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

STATE/ESTADO			1998							1998							1999							1999						
			10-16 Jun							10-16 Nov							10-16 Jun							10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
BRAZIL/BRASIL SBBRYZYX																														
MPTO	PANAMA/TOCUMEN	F - S	44	82	3					21	0	0	0	0	0	0	89	78.6	5	0	0	0		51.2	36	9	0	0	0	0
SABE	BUENOS AIRES	F - S	83	57	2					89	92.9	6					96	100	0	0	0	0		47.6	89	0	0	0	0	0
SACO	CORDOBA	F - S	89	76						89	67.9	5					96	100	0	0	0	0		73.2	39	0	0	0	0	0
SAEZ	BUENOS AIRES/EZEIZA	F - S	45	48	1					82	92.9	10					98	92.9	0	0	0	0		58.9	71	0	2	0	0	0
SAME	MENDOZA	F - S	86	10	1					86	100	0					98	100	1	0	0	0		58.9	93	0	2	0	0	0
SARC	CORRIENTES	F	63	57						94	96.4	0					99	96.4	5					67.9	77					
SARE	RESISTENCIA	F - S	52	57	1					94	89.3	3					96	89.3	5	4	0	0	4	72	82	0	0	0	0	55
SARI	IGUAZU	F	56	62						90	96.4	0					99	92.9	0					73.2	79	0				
SAZM	MAR DEL PLATA	F	66	67						88	78.6	0					96	75	1					55.4	64	0				
AVERAGE/PROMEDIO			67.5	54.25						89	89.3						97	93.3						63.4	74					
SCEL	SANTIAGO	F - S	85	83	1					93	100	0	0	0	0	0	97	100	0	0	0	0	0	57.1	93	0	0	0	0	0
SCFA	ANTOFAGASTA	T		63							71.4							75							71					
SCIE	CONCEPCION	T		79							100							100							93					
AVERAGE/PROMEDIO			85	75						93	90.5						97	91.7						57.1	86					
SEGU	GUAYAQUIL	F - S	66	64	1					80	67.9	4	0	0	0	0	87	82.1	1	0	0	2	0	53.6	57	4	0	0	37	0
SEQU	QUITO	F	53	64	47					75	67.9	107					85	85.7	132					48.2	57	84				
AVERAGE/PROMEDIO			59.5	64						78	67.9						86	83.9						50.9	57					
SGAS	ASUNCION	F - S	69	75	8					61	96.4	0	0	0	0	0	98	89.3	11	0	0	0	0	42.3	61	3	0	0	0	0
SKBO	BOGOTA	F - S	44	32	1					68	57.1	2	0	0	0	0	77	78.6	22	0	0	0	0	49.4	50	11	0	0	0	0
SKBQ	BARRANQUILLA	F	5	29						70	57.1	0					72	82.1	10	0	0	0	0	51.8	57	8	0	0	0	0
SKCL	CALI	F	7	32	1					70	57.1	4					77	82.1	3					48.2	50	5				
SKRG	RIO NEGRO	F	44	32	3					68	57.1	1					76	78.6	5					45.2	54	3				
AVERAGE/PROMEDIO			25	31.25						69	57.1						76	80.4						48.6	53					
SLCB	COCHABAMBA	T		68							64.3							67.9							50					
SLLP	LA PAZ	F - S	68	76						71	64.3	3					80	71.4	0	0	0	0		56	54	2	0	0	0	62
SLVR	SANTA CRUZ	F	68	72						71	64.3	0					77	71.4	0					54.8	54	0				
AVERAGE/PROMEDIO			68	72						71	64.3						79	70.2						55.4	52					
SMJP	ZANDERY	F - S	1	4						0	10.7	0	0	0	0	0	0.6	0	0	0	0	0	0	0	7.1	0	0	0	0	0
SOCA	CAYENNE	F - S	92	79	31					0	100	0	0	0	0	0	94	100	64	0	0	0	0	71.4	96	6	0	0	0	0
SPIM	LIMA-CALLAO	T - S	61	84	1						67.9		0	0	0	2		82.1		1	0	0	20		64		1	0	0	7
SPSO	PISCO	T	62	84	1						67.9							82.1							61					
AVERAGE/PROMEDIO			61.5	84							67.9							82.1							63					
SULS*	MALDONADO	F								53	82.1						75	92.9	0					42.1	82	0				
SUMU	MONTEVIDEO	F - S	70	79	9					82	82.1						94	92.9	11	0	0	0		60.1	82	1	0	0	0	0
SUPE	PUNTA DEL ESTE	F	41	79						60	85.7						9.9	92.9	0					26.4	82	0				
AVERAGE/PROMEDIO			55.5	79						65	83.3						59	92.9						42.9	82					
SVMC	MARACAIBO	T		64							82.1							92.9							61					
SVMG	MARGARITA	T		64							78.6							89.3							61					
SVMI	CARACAS	F - S	20	64						11	82.1	4	0	0	0	0	98	96.4	0	0	0	0		56.5	61	0	0	0	0	0
AVERAGE/PROMEDIO			20	64						11	80.9						98	92.9						56.5	61					
SYCJ**	GEORGETOWN	F - S	0	0						0	10.7	0	0	0	0	0	0	0	0					0.6	0	0				

F = METAR/SPECI + TAF Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones

SYTM cambió de indicador de lugar a SYCJ a partir del 1 junio 1997/SYTM changed for SYCJ as of 1 June 1997

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

*Enmienda a la Tabla MET2 aceptada a partir del 1 de setiembre de 1998/Amendment to Table MET2 accepted as of 1 September 1998.

STATE/ESTADO			1998							1998							1999							1999						
			10-16 Jun							10-16 Nov							10-16 Jun							10 - 16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
CHILE SCZZMAMX																														
SABE	BUENOS AIRES	F - S	71	50	4					99	93	8	2				95	100												
SAVC	COMODORO RIVADAVIA	S																												
SACO	CORDOBA	F - S	79	54						88	93		1				98	89												
SAEZ	BUENOS AIRES/BS.AS.	F - S	42	39	3					99	96	12	2				98	93	11											
SAME	MENDOZA	F - S	71	54						96	96						97	100	1											
SARE	RESISTENCIA	F - S	55	46	1	4			21	98	93	1	2			30	96	86	6				3							
SAWE	RIO GRANDE	F	80	89	8					98	89						76	100	5											
SAWG	RIO GALLEGOS	F	83	93	6					91	96						98	89	7											
SAZM	MAR DEL PLATA	F	80	50						88	89						95	79	1											
SAZS	S.C. DE BARILOCHE	F	74	61						68	93						85	96												
AVERAGE/PROMEDIO			71	60						92	93						93	92												
SBBR	BRASILIA	T - S		82							96		78				0	100		13			32							
SBCW	CURITIBA	S				34			45				72			43	0	0		67			84							
SBEG	MANAUS	S				5			2				90			8														
SBCF	BELO HORIZONTE	T		0							96						0	100												
SBFI	FOZ DO IGUACU	T		86							96						0	100												
SBGL	RIO DE JANEIRO	T		86							100		7				0	100												
SBGR	SAO PAULO	T - S		86		3					100		32				0	93		4										
SBKP	CAMPINAS	T		86							100						0	82												
SBPA	PORTO ALEGRE	F	80	86	12					96	100						96	100	8											
SBRF	RECIFE	T		82							100						0	100												
SBSV	SALVADOR	T		86							100						0	100												
AVERAGE/PROMEDIO			80	76						96	99						10	87												
SEGU	GUAYAQUIL	T - S		14							96							100												
SEQU	QUITO	T		14					1		96	125						100	122											
AVERAGE/PROMEDIO				14							96							100												
SGAS	ASUNCION	F - S	83	68	12					93	100	1					98	100	4											
SKBO	BOGOTA	T - S		86							93							100												
SKBQ	BARRANQUILLA	T		11							11							0												
SKCL	CALI	T		86							93							100												
SKRG	RIO NEGRO	T		11							11							0												
AVERAGE/PROMEDIO				49							52							50												
SLLP	LA PAZ	F - S	86	57					8	92	79	7				2	85	93					4							
SLVR	SANTA CRUZ	F	86	57						92	79					0	85	86												
AVERAGE/PROMEDIO			86	57						92	79						85	89												
SPIM	LIMA-CALLAO	T - S	99	96	11				6	100	100	1				1	99	100					8							
SPSO	PISCO	F	99	96						100	100	1				1	99	100												
SPTN	TACNA	T		96						100	100						99	100												
AVERAGE/PROMEDIO			99	96						100	100						99	100												
SUMU	MONTEVIDEO	F - S	83	57	6	1				100	93	3					99	89												
SVMI	CARACAS	T		79							93							100												

F = METAR/SPECI + TAF - Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

STATE/ESTADO			1998							1998							1999							1999						
			10-16 Jun							10-16 Nov							10-16 Jun							10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	H%	F%	S	WS	WC	WV	A	H%	F%	S	WS	WC	WV	A
COLOMBIA SKZZMAMX																														
MPTO	PANAMA/TOCUMEN	F - S	70	0						67	25						0	50						0	68					
SACO	CORDOBA	T		36						0	79						0	79						0	36					
SAEZ	BUENOS AIRES/EZEIZA	T		25						0	82						0	71						0	68					
AVERAGE/PROMEDIO				31						0	81						0	75						0	52					
SBBE	BELEM	T		54						0	68						0	89						0	57					
SBBR	BRASILIA	T - S		57						0	75						0	89						0	64					
SBEG	MANAUS	T - S		0						0	75						0	82						0	68					
SBGL	RIO DE JANEIRO	T		57						0	75						0	86						0	71					
SBGR	SAO PAULO	T		68						0	71						0	89						0	68					
SBKP	CAMPINAS	T		32						0	61						0	79						0	61					
SBPA	PORTO ALEGRE	T		57						0	75						0	82						0	64					
SBSN	SANTAREM	T		54						0	71						0	89						0	64					
AVERAGE/PROMEDIO				47						0	71						0	86						0	65					
SCEL	SANTIAGO	T		75	11				1	85	68						0	75						0	79					
SCFA	ANTOFAGASTA	S																												
AVERAGE/PROMEDIO				75						85	68						0	75						0	79					
SEGU	GUAYAQUIL	F - S	77	68	5					77	75							86						0	86		7			
SEQU	QUITO	F	79	68	100					76	75							86						0	86					
AVERAGE/PROMEDIO			78	68						77	75							86						0	86					
SLLP	LA PAZ	F - S	68	79						77	79						0	89						0	79					
SLVR	SANTA CRUZ	F	68	79						76	79						0	89						0	75					
AVERAGE/PROMEDIO			68	79						77	79						0	89						0	77					
SPIM	LIMA-CALLAO	F - S	82	82						86	79						0	89						0	100		1			
SPQT	IQUITOS	F	82	82						86	79						0	89						0	100					
SPSO	PISCO	F	82	82						86	79						0	89						0	100					
AVERAGE/PROMEDIO			82	82						86	79						0	89						0	100					
SVMC	MARACAIBO	F	5	54						0	86						0	89						0	89					
SVMG	MARGARITA	F	29	54						0	86						0	89						0	89					
SVMI	CARACAS	F - S	51	54						67	86						0	89						0	89					
AVERAGE/PROMEDIO			28	54						22	86						0	89						0	89					

F = METAR/SPECI + TAF - Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones.

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

STATE/ESTADO			1998 10-16 Jun							1998 10-16 Nov							1999 10-16 Jun							1999 10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
ECUADOR SEZZMAMX																														
MPTO	PANAMA/TOCUMEN	F - S	0	14													2	18						0	36					
SAEZ	BUENOS AIRES/EZEIZA	T		36														79							54					
SAME	MENDOZA	T		46														75							61					
AVERAGE/PROMEDIO				41														77							58					
SCFA	ANTOFAGASTA	S																												
SKBO	BOGOTA	F - S	96	86													100	100						99	100					
SKBQ	BARRANQUILLA	F	97	86													100	100						98	100					
SKCL	CALI	F	97	86													100	100						98	100					
SKRG	RIO NEGRO	F	97	86													97	100						96	100					
AVERAGE/PROMEDIO			97	86													99	100						98	100					
SPIM	LIMA-CALLAO	F- S	95	100													99	96						96	93					
SPSO	PISCO	F	95	100													99	96						96	93					
AVERAGE/PROMEDIO			95	100													99	96						96	93					
SV	CARACAS	S																												

F = METAR/SPECI + TAF - Regular - f

T = TAF - Regular

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note:CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

ESTADO/STATE			1998 10-16 Jun							1998 10-16 Nov							1999 10-16 Jun							1999 10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
FRENCH GUIANA																														
SBBE	Belem	F - S	86.9							93	71		16	0	0		98	50		10	0	0		93	89					
SBEG	Manaus	S											35	0	0					12	0	0								
SBRF	Recife	S											0	0	0					0	0	0								
AVERAGE/PROMEDIO			87							93	71						98	50						93	89					
SEGU	Guayaquil	S																												
SKBO	Bogota	S																		0	0	0								
SKBQ		F	89.3																											
AVERAGE/PROMEDIO			89																											
SMJP		F - S	85.1							0	0						83	61		0	0	0		10	71					
SPIM	Lima	S																												
SVMI	Caracas	F - S	87.5							40	93						95	71		0	0	0		85	82					
SYCJ	Georgetown	S								11	79						40	50		0	0	0		92	75					
TFFF			98.8							66	96						98	82						98	100					
TFFR			95.8							8	93						96	82						96	100					
AVERAGE/PROMEDIO			97.3							37	95						97	82						97	100					

F = METAR/SPECI + TAF Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones.

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)
Guyana Francesa realiza el control OPMET con datos procedentes tanto de la AFTN como del ISCS, debido a que toda la información OPMET llega a un solo sistema.

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
French Guiana performs the OPMET control with information from the AFTN and the ISCS, because all OPMET information reaches only one system.

STATE/ESTADO			1998							1998							1999							1999						
			10-16 Jun							10-16 Nov							10-16 Jun							10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
PANAMA MPZZMAMX																														
MWCR	GEORGETOWN	F																												
SBBE	BELEM	F	23	11						14	18						60	46						39						
SBCW	CURITIBA	S																												
SBEG	MANAUS	F - S	26	28						16	14						59	46												
AVERAGE/PROMEDIO			25	20						15	16						60	46						39						
SEGU	GUAYAQUIL	F - S	27	25						17	14						80	61						63	57					
SEQU	QUITO	F	29	25						17	14						82	61						65	54					
AVERAGE/PROMEDIO			28	25						17	14						81	61						64	55					
SKBO	BOGOTA	F - S	22	18						27	18						88	57						52	43					
SKBQ	BARRANQUILLA	F	29	18						29	18						84	57						76	32					
SKCG	CARTAGENA	F	23	18						22	18						74	57						62	39					
SKCL	CALI	F	23	18						24	18						85	54						76	39					
SKRG	RIO NEGRO	F	.06	18						1	18						24	57						17	32					
SKSP	SAN ANDRES	F	19	18						6	18						61	57						53	32					
AVERAGE/PROMEDIO			19	18						18	18						69	56						56	36					
SLLP	LA PAZ	T - S		36						0	18						9	54						7						
SLVR	SANTA CRUZ	T		36						0	18						4	14						5	43					
AVERAGE/PROMEDIO				36						0	18						6	34						6	43					
SPIM	LIMA-CALLAO	F - S	37	68						8	7						74	46						83	68					
SPSO	PISCO	T		68						0	0						1	46						7	57					
AVERAGE/PROMEDIO			37	68						4	4						37	46						45	62					
SVMC	MARACAIBO	F	.02	43						0	21						1	46						3	46					
SVMG	MARGARITA	F	11	43						0	21						2	46						1	25					
SVMI	CARACAS	F - S	38	43						21	21						74	46						27	57					
AVERAGE/PROMEDIO			16	43						7	21						26	46						10	43					

F = METAR/SPECI + TAF - Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

STATE/ESTADO			1998							1998							1999							1999						
			10-16 Jun							10-16 Nov							10-16 Jun							10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
PARAGUAY SGZZMAMX																														
SAAR	ROSARIO	F	55	57													90	61	0	0			0	64	71	0	0			0
SABE	BUENOS AIRES	F - S	69	50	3												93	100	0	0			0	49	71	2	0			0
SACO	CORDOBA	F - S	75	75	3												96	96	1	0			6	52	46	1	0			0
SAEZ	BUENOS AIRES/EZ	F - S	41	32	2												96	100	3	0			0	52	71	4	0			0
SAME	MENDOZA	F - S	69	61													95	93	1	0			0	54	71	0	1			0
SARC	CORRIENTES	F	43	46	4												98	93	4	0			0	50	64	1	0			0
SARE	RESISTENCIA	F	48	46	4	3			21								99	96	8	4			101	54	64	2	2			25
SARF	FORMOSA	F	47	50													93	96	3	0			0	51	64	1	0			0
SARI	IGUAZU	F	45	50													93	93	0	0			0	49	64	2	0			0
SARP	POSADAS	F	44	39	5												93	100	4	0			0	49	64	1	0			0
SASA	SALTA	F	32	75													83	100	1	0			0	57	64	1	0			0
SAZM	MAR DEL PLATA	F	77	46													92	37	2	0			0	47	57	0	0			0
AVERAGE/PROMEDIO			49	52													93	89						52	64					
SBBE	BELEM	S																												
SBBR	BRASILIA	F - S	18	100		2			1								95	100	0	103			456	55	71	5	25			45
SBCF	BELO HORIZONTE	T		0																										
SBEG	MANAUS	F	98	89	5												93	100	9	0			0	53	71	5	1			0
SBFI	FOZ DO IGUACU	F	96	100													96	100	6	0			0	54	71	0	0			0
SBGL	RIO DE JANEIRO	F	100	100													98	100	4	0			0	57	71	3	2			0
SBGR	SAO PAULO	F	96	96	10	1											95	100	23	9			0	54	71	2	3			0
SBKP	CAMPINAS	F	94	96													99	100	13	0			0	58	71	1	0			0
SBPA	PORTO ALEGRE	F	95	100	7												98	100	5	0			0	56	71	0	0			0
SBRF	RECIFE	S	87	100	2	4			60																					
AVERAGE/PROMEDIO			86	87													96	100						55	71					
SCDA	IQUIQUE	F	76	7													95	86	0	0			0	54	71	0	0			0
SCFA	ANTOFAGASTA	S															80	71	0	0			0	50	71	0	0			0
SCEL	SANTIAGO	F - S	76	79	11	1			8								96	100	2	1			15	54	71	1	0			0
SCIE	CONCEPCION	F	76	79	1												96	100	0	0			0	54	71	0	0			0
AVERAGE/PROMEDIO			76	55													92	89						53	71					
SLCB	COCHABAMBA	F	77	71													97	100	0	0			0	51	64	0	0			0
SLLP	LA PAZ	F - S	77	71					5								96	100	0	0			7	51	64	2	0			4
SLVR	SANTA CRUZ	F	77	71													89	100	0	0			0	51	64	0	0			0
AVERAGE/PROMEDIO			77	71													94	100						51	64					
SPIM	LIMA-CALLAO	F - S	74	86	3	2											86	100	2	2			18	48	64	2	0			2
SPSO	PISCO	F	74	82	3	5											86	100	1	0			1	48	64	0	0			0
AVERAGE/PROMEDIO			74	84													86	100						48	64					
SULS*	MALDONADO	F															57	100	0	0			0	0	71	0	0			0
SUMU	MONTEVIDEO	F - S	70	68	7												95	100	13	0			0	55	71	5	0			0
SUPE	PUNTA DEL ESTE	F	0	39													0	100	0	0			0	0	71	0	0			0
AVERAGE/PROMEDIO			35	54													51	100						18	71					

F = METAR/SPECI + TAF Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

*Enmienda a la Tabla MET2 aceptada a partir del 1 de setiembre de 1998/Amendment to Table MET2 accepted as of 1 September 1998.

STATE/ESTADO			1998 10-16 Jun							1998 10-16 Nov							1999 10-16 Jun							1999 10-17 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
PERU SPZZMAMX																														
MPTO	PANAMA/TOCUMEN	F - S		93		1				35	64	0	0	0	0	0	94	89	0	9	0	0	0	80	82	0	0	0	0	0
SAAR	ROSARIO	F	57	54						98	79	0					96	75	0					85	54	0				
SACO	CORDOBA	F - S	66	68	2					85	96	10	1	0	0	0	93	100	0	0	0	0	0	90	50	0	0	0	0	0
SAEZ	BUENOS AIRES/EZEIZA	T - S		43							100		0	0	0	0		100		0	0	0	0		79		0	0	0	0
SAME	MENDOZA	T		64							96							96							86					
SARE	RESISTENCIA	F - S	48	57	2	3			46	100	96	2	2	0	0	44	86	96	7	4	0	0	43	82	79	0	0	0	0	121
SASJ	JUJUY	F	39	71						90	89	0					71	96	0					86	50	0				
AVERAGE/PROMEDIO			53	60						93	93						87	94						86	66					
SBBE	BELEM	S							59				15	0	0	54				32	0	0	170				0	0	0	52
SBBR	BRASILIA	T - S		100							96		23	0	0	11		100		0	0	0	0		61		0	0	0	52
SBCF	BELO HORIZONTE	T		93							96							100							71					
SBCW	CURITIBA	S																												
SBEG	MANAUS	S				2			13				38	0	0	18				4	0	0	0				0	0	0	0
SBGL	RIO DE JANEIRO	T		93							96							100							71					
SBGR	SAO PAULO	T - S		96							93		15	0	0	0		96		14	0	0	0		75		0	0	0	0
SBKP	CAMPINAS	T		86							96							96							75					
SBPA	PORTO ALEGRE	T		100							100							96							68					
SBTT	TABATINGA	F	15	86						81	100						64	100	1					57	75	0				
AVERAGE/PROMEDIO			15	93						81	97						64	98						57	71					
SCAR	ARICA	F	97	79						99	75	0					98	75	0					96	75	0				
SCDA	IQUIQUE	T		71							75							75							75					
SCEL	SANTIAGO	F	100	86					1	98	93	0	1	0	0	0	99	100	0	0	0	0	0	96	79	0	0	0	0	0
SCFA	ANTOFAGASTA	F - S	98	68						99	75	0	0	0	0	0	97	75	0	0	0	0	0	89	75	0	0	0	0	0
SCIE	CONCEPCION	F	99	86						98	93	0					98	100	0					98	79	0				
AVERAGE/PROMEDIO			99	78						99	82						98	85						95	77					
SEGU	GUAYAQUIL	F - S	89	93						98	82	0	0	0	0	0	89	100	0	0	0	2	0	93	93	2	45	0	0	0
SEQU	QUITO	F	89	89	4					94	82	3					94	100	0					93	93	1				
AVERAGE/PROMEDIO			89	91						96	82						92	100						93	93					
SGAS	ASUNCION	T - S		0							4		0	0	0	0				0	0	0	0		0		0	0	0	0
SKBO	BOGOTA	F - S	90	89	4					95	100	6	0	0	0	0	97	96	1	0	0	0	0	95	100	0	0	0	0	0
SKBQ	BARRANQUILLA	F - S	90	89						93	96	0					95	96	1					95	100	0				
SKCG	CARTAGENA	T		86							93							96							100					
SKCL	CALI	F	90	89	4					96	100	4					96	96	0					95	96	0				
SKRG	RIONEGRO	T		93							93							96							100					
AVERAGE/PROMEDIO			90	89						95	96						96	96						95	99					
SLCB	COCHABAMBA	F	87	50						92	71	0					95	100	0					98	75	0				
SLLP	LA PAZ	F - S	88	50						94	75	0	0	0	0	0	96	100	1	0	0	0	2	98	75	2	0	0	0	17
SLTR	TRINIDAD	T		36							50							82							36					
SLVR	SANTA CRUZ	F	88	50						93	75	0					92	100	0					96	75	0				
AVERAGE/PROMEDIO			88	47						93	68						94	96						97	65					
SMJP	ZANDERY	S											0	0	0	0				0	0	0	0				0	0	0	0
*SULS	MALDONADO	F																												
SUMU	MONTEVIDEO	T		57							96							100							89					
AVERAGE/PROMEDIO				57							96							100							89					
SVMC	MARACAIBO	T		71							86							100							89					
SVMI	CARACAS	T		71							86							100							89					
AVERAGE/PROMEDIO				71							86							100							89					
SYCJ**	GEORGETOWN	S																												

F = METAR/SPECI + TAF - Regular - f

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

*Enmienda a la Tabla MET2 aceptada a partir del 1 de setiembre de 1998/Amendment to Table MET2 accepted as of 1 September 1998.

STATE/ESTADO			1998 10-16 Jun							1998 10-16 Nov							1999 10-16 Jun							1999 10-16 Nov						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
URUGUAY																														
SAEZYMYX																														
SAAR	ROSARIO	F								92	78	2					96	78						86	67					
SABE	BUENOS AIRES/JORGE N.F.	F								96	100						96	93						74	93					
SAEZ	BUENOS AIRES/EZEIZA	F - S								99	96	1					93	93						90	89					
SACO	CORDOBA	F - S								94	96	3				1	95	96						88	46					
SAME	MENDOZA	F - S								92	93						99	96						89	82					
SARE	RESISTENCIA	F								91	82					1	93	71	4				9	82	78					47
SAZM	MAR DEL PLATA	F								97	96						95	75						83	71					
AVERAGE/PROMEDIO										94	92						95	86						85	75					
SBBR	BRASILIA	S																		12			7							
SBCT	CURITIBA	S											15																	
SBEG	MANAUS	S																												
SBGL	RIO DE JANEIRO	F - S															98	96						97	94					
SBGR	SAO PAULO	F - S								98	100	17	3			5	96	93	10					95	82		2			
SBKP	CAMPINAS	F								96	100						97	93	1				1	93	82					
SBPA	PORTO ALEGRE	F								96	100						96	96	1					96	82					
SBRF	RECIFE	S																												
SBSV	SALVADOR	F								96	96						95	68						82	75					
AVERAGE/PROMEDIO										97	99						96	89						93	83					
SCEL	SANTIAGO	F - S								96	75						97	82					1	87	75					2
SCIE	CONCEPCION	F								94	50						93	61						89	61					
AVERAGE/PROMEDIO										95	63						95	72						88	68					
SGAS	ASUNCION	F - S								95	86	1					95	93	1					71	53					1
SLLP	LA PAZ	F								85	96	1					93	93	1					85	57					

F = METAR/SPECI + TAF Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

STATE/ESTADO			1998 10-16 Jun							1998 10-16 Nov							1999 10-16 Jun							1999 10-16 Jun						
			SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A	SA%	FT%	SP	WS	WC	WV	A
VENEZUELA																														
SVZZMAMX																														
MPTO	PANAMA/TOCUMEN	F - S																												
SACO	CORDOBA	T																												
SAEZ	BUENOS AIRES/EZEIZA	T																												
SAME	MENDOZA	T																												
SARE	RESISTENCIA	T																												
SAZM	MAR DEL PLATA	T																												
AVERAGE/PROMEDIO																														
SBBE	BELEM	S	100	100	1	5				70	91																			
SBBR	BRASILIA	T		100	1	2					88																			
SBCW	CURITIBA	S																												
SBBV	BOA VISTA	F	98	100		5				94	90																			
SBEG	MANAUS	F - S	99	100		4				97	89																			
SBGL	RIO DE JANEIRO	T		100							91																			
SBGR	SAO PAULO	T - S		96							84																			
SBKP	CAMPINAS	T		0																										
SBSV	SALVADOR	T		96							86																			
AVERAGE/PROMEDIO			99	87						87	88																			
SEGU	GUAYAQUIL	F - S	100	100	5																									
SEQU	QUITO	F - S	100	100	29																									
AVERAGE/PROMEDIO			100	100																										
SKBO	BOGOTA	F - S	96	96	5					98	90																			
SKBQ	BARRANQUILLA	F	92	96						98	90																			
SKCG	CARTAGENA	F	98	96						99	90																			
SKCL	CALI	F	0	96						28	90																			
AVERAGE/PROMEDIO			72	96						81	90																			
SLLP	LA PAZ	S									44																			
SMJP	ZANDERY	S									2																			
SOCA	CAYENNE	S									90																			
SPIM	LIMA-CALLAO	T - S		100																										
SPSO	PISCO	T		100																										
AVERAGE/PROMEDIO				100																										
SUMU	MONTEVIDEO	T		89						93	92																			
SYCJ**	GEORGETOWN	F - S									3																			

F = METAR/SPECI + TAF Regular

T = TAF - Regular

S = AIREP(A), SIGMET(WS) y SIGMET(WC-WV) relacionados con nubes de ceniza volcánica y ciclones tropicales/AIREP(A), SIGMET(WS) and SIGMET(WC-WV) related with volcanic ash clouds and tropical cyclones

Nota: CAMPO GRANDE (SBCG) salió del ANP CAR/SAM (Propuesta de enmienda de Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1998)
TALARA (SPYL) salió del ANP CAR/SAM (Propuesta de enmienda Serie No. SAM 95/4-AOP/COM/MET aprobada el 28 de abril 1996)

Note: CAMPO GRANDE (SBCG) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)
TALARA (SPYL) was excluded from the CAR/SAM ANP (Proposal for amendment Serial No. SAM 95/4-AOP/COM/MET approved 28 April 1996)

Period: 10-16

Related with MWO	STATE AFTN: Fax: E-mail: **TRANSMITTED METEOROLOGICAL MESSAGES**				
	SPECI(SP)	SIGMET(WS)	SIGMET with projection to tropical cyclones (WC)	SIGMET with projection for volcanic ash (WV)	Special AIREP (UA)

FORM B

Period: 10 - 16

Related with Aerodrome	STATE: AFTN: FAX: E-Mail:										
	RECEIVED METEOROLOGICAL MESSAGES										
	METAR			**TAF**			OTHER				
	FORESEEN	RECEIVED	EFFICIENCY %	FORESEEN	RECEIVED	EFFICIENCY %	SP	WS	W C	W V	UA

SP= Speci WS = SIGMET WC = Tropical cyclones WV = Volcanic ash UA = AIREP

a) Transit times for MET messages and bulletins through the AFTN should be those recommended in Annex 3, Chapter 11, item 11.1.11.
b) ICAO SAM Office will send a list of SAM States with MET stations not working 24 hours a day.

TRANSMISSION OF OPERATIONAL METEOROLOGICAL INFORMATION

Office: State:

State	**Argentina**	**Brazil**	**Chile**	**Colombia**	**Ecuador**	**Mexico**	**Panama**	**Paraguay**	**Peru**	**Uruguay**	**Venezuela**	**U.S.A.**
AFTN Address	SAEZYMYX	SBBRYZYX	SCZZMAMX	SKZZMAMX	SEZZMAMX	MMMXYMYX	MPZZMAMX	SGZZMAMX	SPZZMAMX	SUZZMAMX	SVZZMAMX	KWBCYZYX
SLLP	M/S/T/Si/A	M/S/T/Si/A	M/S/T/Si/A	M/S/T/Si/A	T/	T/	T/Si/A	M/S/T/Si/A	M/S/T/Si/A	M/S/T	T/Si/A	M/S/T/Si/A
SLVR	M/S/T	M/S/T	M/S/T	M/S/T			T	M/S/T	M/S/T	T	T	M/S/T
SLCB	M/S/T	T/M/S					T	M/S/T	M/S/T		T	M/S/T
SLTR		T						T				M/S/T

References:

SA=METAR	SA=SABO
SP=SPECI	SP=SPBO
FT=TAF	FT=FTBO
WS=SIGMET	WS=WSBO
WC=SIGMET	SIGMET on tropical cyclone
WV=SIGMET	WV=WVBO (SIGMET on volcanic ash)
A=AIREP	UA=AUBO

FABO	SAEZYMYX	SBBRZXCP	SCELYMYX	SKBOYMYX	SEQUYMYX	MMMXYMYX	MPTOYMYX	SGASYMYX	SPIMYMYX	SUMUYMYX	SVMIYMYX	KWBCYMYX

In accordance with tables FASID MET2 and FASID MET2A, of the Air Navigation Regional Plan (RAN CAR/SAM/3, October 1999)

Note: Sample of OPMET information sent by Bolivia in accordance with tables FASID MET 2 and FASID MET 2A

FORM A

Proposal for Amendment to FASID Tables MET 2 and MET 2A

Table FASID MET _____

Serial No. OPMET SAM _____

1. **Originated by**: _____

2. **New exchange proposed to introduce**:

   a) To be available at: _____

   b) From or related with: _____

_____

   c) Information required:

Table FASID MET 2						Table FASID MET2A		
F	S	T	f	s	t	S	s	s'

3. **Originator's reasons**: _____

_____

4. **Provider State:** _____

   a) **The proposal is acceptable**: **Applicable as from**:

   Yes ___ No ___ _____
   (date)

   _____
   (date and signature)

   b) **Comments if not found acceptable**: _____

   _____

   _____

FORM B

Proposal for Amendment to Tables FASID MET 2 and FASID MET 2A

Table FASID MET _____

Serial No. OPMET SAM _____

1. **Originated by**: _____

2. **Exchange proposed to delete**:

   a) To be available at: _____

   b) From or related with: _____

   c) Information:

Table FASID MET 2						Table FASID MET2A		
F	S	T	f	s	t	S	s	s'

3. **Originator's reasons**: _____

_____

4. **Provider State:** _____

   a) **The proposal is acceptable**: **Applicable as from**:

   Yes ___ No ___ _____
   (date)

   _____
   (date and signature)

   b) **Comments if not found acceptable**: _____

   _____

   _____