



International Civil Aviation Organization

**THIRTEENTH MEETING OF THE ASIA/PACIFIC REGIONAL OPMET
BULLETIN EXCHANGE WORKING GROUP (ROBEX WG/13)**

Seoul, Republic of Korea, 16 – 18 March 2015

Agenda Item 3: OPMET information

REVIEW OF OPMET MONITORING RESULT

(Presented by Singapore)

SUMMARY

This paper provides an analysis on the result of OPMET Monitoring Exercise carried out between 1 and 31 January 2015 for the Asia Pac region.

1 INTRODUCTION

1.1 The ROBEX WG/12 decided that the OPMET monitoring for the Asia Pac region would be conducted in December 2014 and January 2015.

1.2 The following indices are selected to determine OPMET exchanged performance in accordance with the methodology recommended in ROBEX Handbook:

- The Compliance Index; and
- The Regularity Index; and
- The Availability Index

1.3 The December 2014 data is used to compute the thresholds and the January 2015 data is used to produce Performance Indices (PIs).

1.4 Reference documents:

- ROBEX Handbook Twelfth Edition 2004 (Amended – May 2013)
- Annex 1 of the SADIS User Guide (Updated 28 April 2014)

2 DISCUSSION

2.1 RESULTS - PI Measurements for Asia Pac region According to ROBEX HB

2.1.1 January 2015 Monitoring results: the table and graph below show the average of the three indices during the 31-day monitoring period.

Jan 15	Compliance Index	Regularity Index	Availability Index
FT	0.95	0.98	0.99
SA	0.86	0.93	0.98

Table 1: PIs for OPMET Measurement 2015

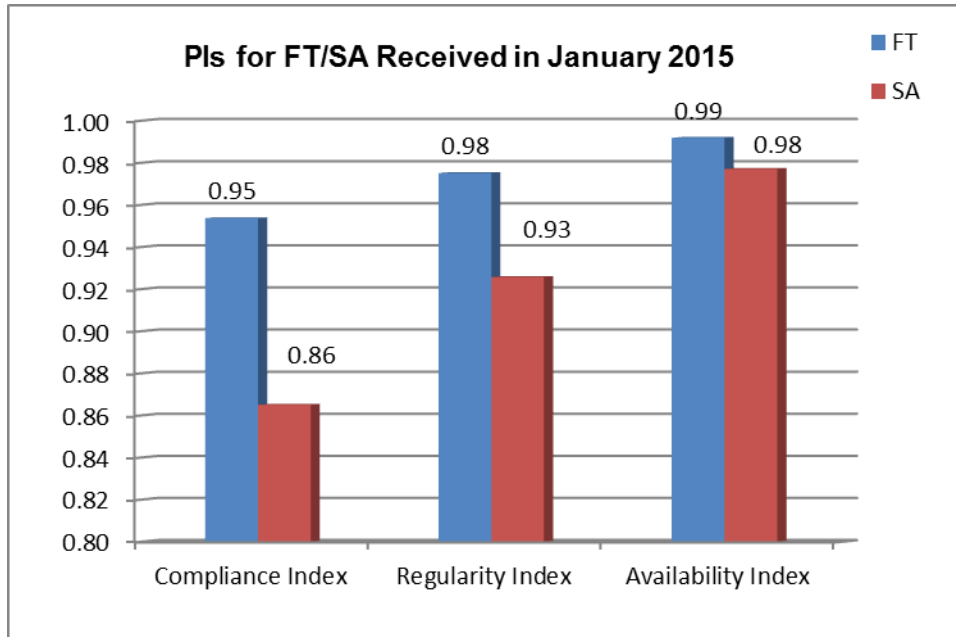


Figure 1: PIs for FT/SA Received in 2015

2.1.2 Comparison of PIs Measurements in the AP region between 2013 and 2015

The table and graphs below show the comparison result for TAF and METAR indices.

FT	Jan 15	Jan-14	Jan 13	SA	Jan 15	Jan-14	Jan 13
Compliance Index	0.95	0.95	0.94	Compliance Index	0.86	0.84	0.83
Regularity Index	0.98	0.95	0.95	Regularity Index	0.93	0.89	0.89
Availability Index	0.99	0.98	0.98	Availability Index	0.98	0.96	0.95

Table 2: PIs for OPMET Measurement 2013-2015

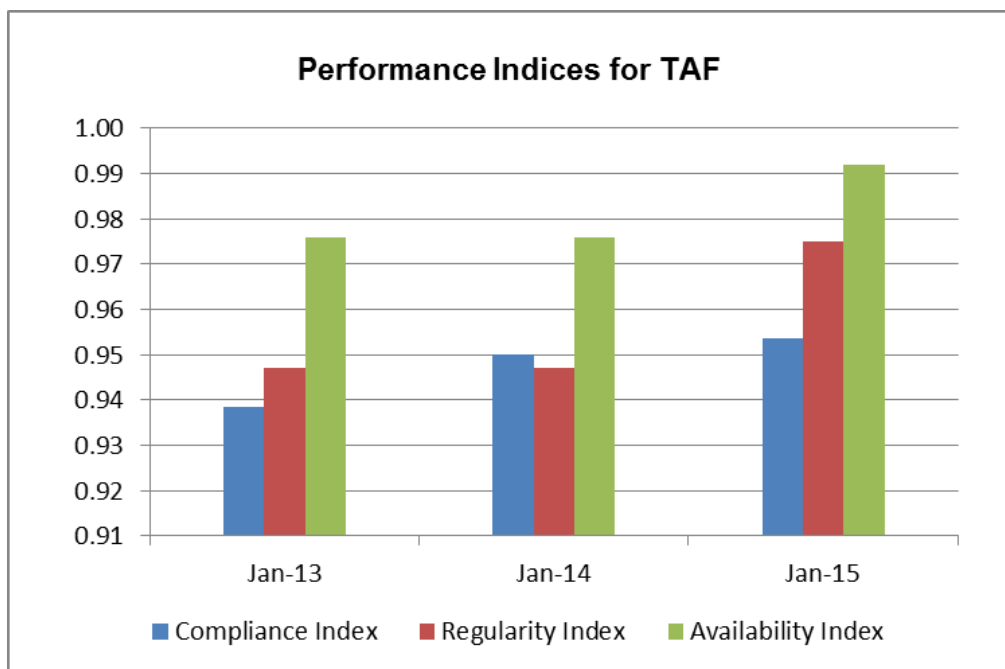


Figure 2: PIs for TAF Received 2013-2015

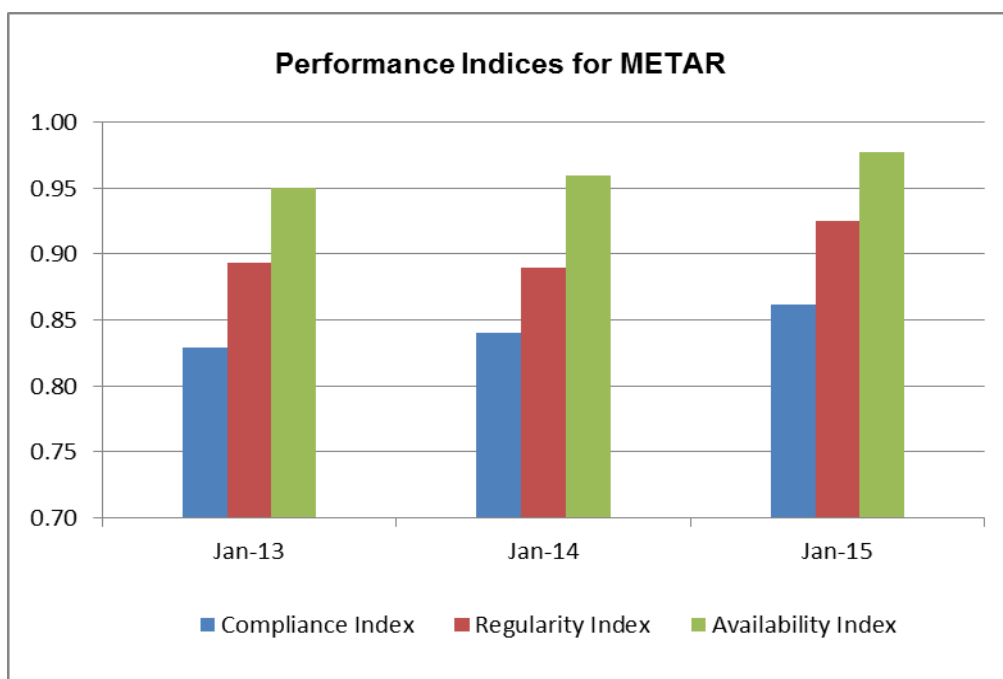


Figure 3: PIs for METAR Received 2013-2015

2.1.3 The following Table 3 gives an overview of the low compliance for the TAF and METAR exchanged under the ROBEX Scheme.

Compliance Indices for TAF < 0.5 and = 0					
TTAAii	CCCC	Compliance			
FTIN32	VRMH	0.00	FTIN32	VOHY	0.01
FTIN33	VRMM	0.00			
FTPS31	NLWW	0.00			
FTPS31	NSTU	0.00			

FTIN32	NWWW	0.00			
Compliance Indices for METAR < 0.5 and = 0					
TTAAii	CCCC	Compliance	TTAAii	CCCC	Compliance
SAID32	WIDN	0.00	SAID32	WIOO	0.03
SAID33	WABP	0.00	SAID31	WABB	0.07
SAID33	WAJJ	0.00	SANG31	AYGN	0.08
SAID33	WAKK	0.00	SAPS31	PLCH	0.11
SAID33	WALR	0.00	SAPS32	NVVV	0.13
SANG31	AYMH	0.00	SANG31	AYMO	0.14
SAPK31	OPGD	0.00	SANG31	AYVN	0.14
SAPS31	NGTA	0.00	SANG31	AYWK	0.14
SAPS31	NSTU	0.00	SANG31	AYNZ	0.41
SAPS32	NLWW	0.00	SAIN33	VQPR	0.44
SAPS32	NVSS	0.00	SAID33	WAPP	0.46
SATH33	VTUQ	0.00	SATH31	VTCP	0.48
SATH41	VTPB	0.00			
SATH41	VTSK	0.00			
SATH41	VTUJ	0.00			

Table 3: Low Compliancy for TAF and METAR

2.2 **Evaluation of OPMET Availability in the Asia Pac region according to the requirements listed in the Annex 1 of the SADIS User Guide** (updated 28 April 2014)

2.2.1 The availability of TAF and METAR collated during the 1-month period was evaluated against the OPMET information required in the Annex 1 of SADIS SUG which is identical to FASID Table MET 2A.

2.2.2 The following tables summarize missing TAF/METAR in the ASI and PAC region that are not received during the monitoring period although OPMET data is required in the Annex 1 of SADIS SUG.

- OPMET availability in ASI region:

ASI AOP	FT	SA		ASI Non-AOP	FT	SA
Expected	183	187		Expected	86	88
Received	177	179		Received	84	80
Missing	6	8		Missing	2	8
Availability	97%	96%		Availability	98%	91%

- Missing TAF/METAR are shown by their respective location identifiers in the ASI region:

ASI AOP	FT	SA
NVSS	X	

ASI Non-AOP	FT	SA
AYMH	X	X
OPDG		X

NVVV	X	
NWWW		
OAKN	X	X
OPGD		X
VCCH		X
VEGT	X	X
VEGY	X	X
VRMG		X
VRMH	X	X
ZUXC		X

RPML	X	X
RPMR		X
RPVD		X
RPVP		X
VIPB		X
VTPT		X

- OPMET availability in PAC region:

PAC AOP	FT	SA		PAC Non-AOP	FT	SA
Expected	26	26		Expected	10	10
Received	25	23		Received	9	10
Missing	1	3		Missing	1	0
Availability	96%	88%		Availability	90%	100%

- Missing TAF/METAR shown by their respective location identifiers in the PAC region:

PAC AOP	FT	SA
ANYN		X
NGTA		X
NLWW		X
PGRO	X	

PAC non-AOP	FT	SA
PGWT	X	

2.3 ASSESSMENT

2.3.1 In terms of TAF exchange under the ROBEX Scheme, the three indices are have shown reasonably good performance and achieved between 95% and 99% during the 31-day monitoring period.

2.3.2 For METAR reception, the Compliance Index is about 86%, compare with 2014 result, it is up by 2%. It shall be noted that there is still a significant number of aerodromes in the region for which the METAR reports (15 missing reports) are not made available under the ROEX Scheme.

2.3.3 With reference to the OPMET information required in Annex 1 of the SADIS User Guide for ASI region:

- 4 aerodromes listed in the AOP Tables are not producing TAF and METAR
- 4 aerodromes not issuing TAF (AOP: 2 ; Non-AOP: 2)
- 18 aerodromes not producing METAR (AOP: 8 ; Non-AOP: 8).

2.3.4 In conclusion, the monitoring results show that **average 96%** for both AOP and non-AOP aerodromes issued TAFs. **98%** of the AOP aerodromes and **91%** of the non-AOP aerodromes issued METARs. There is a significant improvement from the ASI aerodromes issuing METAR this year, AOP: 96% (2014: 93% for AOP) and non-AOP: 91% (2014: 86% for non-AOP).

3 ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Discuss the monitoring results; and
- b) Discuss the issue of a repetition of poor OPMET reception from some specific aerodromes and identify follow-up action if necessary.
