



*International Civil Aviation Organization*

**THE THIRD MEETING OF ASIA/PACIFIC METEOROLOGICAL  
HAZARDS TASK FORCE (MET/H TF/3)**

Bangkok, Thailand, 13 – 15 March 2013

**Agenda Item C2 b) Regional SIGMET monitoring and coordination**

**SIGMET MONITORING FOR 6 NON-PARTICIPATING STATES  
IN ASIA PAC WS-SIGMET TESTS**

(Presented by Australia and Singapore)

**SUMMARY**

This paper presents an analysis of 2-month WS SIGMET monitoring for 6 non-participating States

**1. INTRODUCTION**

1.1 With reference to the assessment of the SIGMET Test 7 (November 2011), seven States (24%) had not participated in any of the seven tests since 2008. The action agreed 10/3 by the OPMET/M TF/10 meeting requires both RODB Brisbane and RODB Singapore monitor the issuance of WS SIGMET for the following States: Afghanistan, Bangladesh, Nauru, Papua New Guinea, Solomon Islands, and Sri Lanka.

1.2 RODBs Brisbane and Singapore developed a mutual monitoring plan as described in this working paper.

**2. MONITORING PROCEDURES**

2.1 The duration of the WS-SIGMET Monitoring period was 2 months, starting from 0000UTC, 1 August to 2359 UTC, 30 September 2012.

2.2 A pre-prepared EXECL spreadsheet was used to record daily reception of SIGMET messages from the 6 States, include SIGMETs issued by the neighbouring MWOs.

2.3 The following WMO abbreviated headings would be verified during the monitoring period.

State	WMO Abbreviated Heading	FIR
Afghanistan	WSAH31 OAKB	OAKX
Bangladesh	WSBW20 VGHS	VGFR
Nauru	WSNW20 AYPY	ANAU
Papua New Guinea	WSNG20 AYPY	AYPY
Solomon Islands	WSSO20 AYPY	AGGG
Sri Lanka	WSSB31 VCBI	VCBI
		Surrounding FIR
Pakistan	WSPK31 OPKC	OPKR
India	WSIN31 VIDP	VIDF
India	WSIN31 VECC	VECF
Myanmar	WSBM31 VYYY	VYYY
Australia (FIR-BN)	WSAU21 YBRF	YBBB
Fiji	WSFJ01 NFFN	NFFF
Maldives	WSMV31 VRMM	VRMF
India	WSIN31 VOMM	VOMF

2.4 Both RODBs monitored and used SIGMET received via AFTN as their recording mechanism.

### 3. DISCUSSION

3.1 The table below summaries the monitoring of issuance of WS-SIGMET for 6 States from 1 August to 30 September 2012, include WS-SIGMETs issued by neighbouring MWOs.

State	WS-SIGMET AHL	Singapore RODB	Brisbane RODB
		Aug-12	Aug-12
		No of days SIGMET issued	No of days SIGMET issued
<b>Afghanistan</b>	<b>WSAH31 OAKB</b>	<b>0</b>	<b>0</b>
Pakistan	WSPK31 OPKC	14	0
India	WSIN31 VIDP	26	27
<b>Bangladesh</b>	<b>WSBW20 VGHS</b>	<b>31</b>	<b>31</b>
India	WSIN31 VECC	29	13
Myanmar	WSBM31 VYYY	5	4
<b>Nauru</b>	<b>WSNW20 AYPY</b>	<b>0</b>	<b>0</b>
<b>Papua New Guinea</b>	<b>WSNG20 AYPY</b>	<b>0</b>	<b>0</b>
<b>Solomon Islands</b>	<b>WSSO20 AYPY</b>	<b>0</b>	<b>0</b>
Australia (BN)	WSAU21 YBRF (BN)	0	0
Fiji	WSFJ01 NFFN	11	11
<b>Sri Lanka</b>	<b>WSSB31 VCBI</b>	<b>7</b>	<b>7</b>

Maldives	WSMV31 VRMM	6	0
India	WSIN31 VOMM	30	30
<b>State</b>	<b>WS-SIGMET AHL</b>	<b>Singapore RODB</b>	<b>Brisbane RODB</b>
		<b>Sep-12</b>	<b>Sep-12</b>
		No of days SIGMET issued	No of days SIGMET issued
<b>Afghanistan</b>	<b>WSAH31 OAKB</b>	<b>0</b>	<b>0</b>
Pakistan	WSPK31 OPKC	14	0
India	WSIN31 VIDP	15	11
Bangladesh	<b>WSBW20 VGHS</b>	<b>30</b>	<b>30</b>
India	WSIN31 VECC	28	24
Myanmar	WSBM31 VYYY	2	2
Nauru	<b>WSNW20 AYPY</b>	<b>0</b>	<b>0</b>
Papua New Guinea	<b>WSNG20 AYPY</b>	<b>0</b>	<b>0</b>
Solomon Islands	<b>WSSO20 AYPY</b>	<b>0</b>	<b>0</b>
Australia (BN)	WSAU21 YBRF (BN)	3	0
Fiji	WSFJ01 NFFN	9	9
Sri Lanka	<b>WSSB31 VCBI</b>	<b>4</b>	<b>4</b>
Maldives	WSMV31 VRMM	7	0
India	WSIN31 VOMM	28	27

Table 1: WS-SIGMET Reception in August and September 2012

3.2 An overview of the WS-SIGMET reception by two RODBs is shown in Appendix 1.

3.3 The WS-SIGMET monitoring result compiled by the two RODBs shows consistency in the days for which SIGMETs were issued by the six non-participating States over the 2-month period.

3.4 No SIGMET was received from the four States, Afghanistan, Nauru, Papua New Guinea and Solomon Islands for the 2-month monitored. SIGMETs on thunderstorms were issued by the surrounding MWOs in some days and it is not certain whether the convective SIGMET was likely to occur or the severity did reach the criteria for issuance of a SIGMET over these FIRs. It should be also noted that Papua New Guinea serves 3 FIRs – Port Moresby, Honiara, and Nauru for the issuance of SIGMET.

3.5 During the monitoring period, MWO Colombo issued 7 SIGMET in August and 4 SIGMET in September. MWO Dhaka issued WS-SIGMET every day, average 6 SIGMET per day.

**4. ACTION BY THE MEETING**

4.1 The meeting is invited to:

- a) note the information provided; and
- b) discuss future improvement of SIGMET issuance of the non-participating MWOs.

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**ATTACHMENT:**

**APPENDIX 1 – No of SIGMET Received (daily count), include SIGMET issued by neighbouring MWOs**

(Remark: SIGMET counts from RODB Brisbane include duplicate messages containing different AFTN addresses.)

Aug-12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No of days SIGMET issued		
WSAH31 OAKB (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSAH31 OAKB (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSPK31 OPKC (SR)	0	1	0	0	1	0	0	2	0	0	0	0	3	0	1	0	0	0	0	0	0	1	2	0	1	2	2	3	3	2	2		14	
WSPK31 OPKC (AU)																																		0
WSIN31 VIDP (SR)	3	0	0	0	0	0	4	4	5	5	6	2	5	2	2	2	2	3	5	3	4	4	4	3	4	5	5	3	5	4	3		26	
WSIN31 VIDP (AU)	23	10					12	24	24	24	23	24	23	25	24	23	23	24	24	24	24	24	23	23	24	26	24	32	24	18	23		27	
WSBW20 VGHS (SR)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8	8	5	8	6	6	6	6	6	6	6	6	6	6	6	5		31
WSBW20 VGHS (AU)	8	12	10	9	11	9	9	8	6	9	8	9	7	9	8	11	7	8	9	9	11	7	10	12	9	8	8	9	7	4	7		31	
WSIN31 VECC (SR)	6	7	8	8	8	8	8	7	8	8	8	8	8	8	7	6	6	6	6	6	8	7	3	8	8	5	1	0	3	5	0		29	
WSIN31 VECC (AU)			3	8			3				9				9	3			9			7	18	20				3	25	15			13	
WSBM31 VYYY (SR)	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
WSBM31 VYYY (AU)															1	4		1	4															4
WSNW20 AYPY (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSNW20 AYPY (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSNG20 AYPY (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSNG20 AYPY (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSSO20 AYPY (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSSO20 AYPY (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSAU21 YBRF (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSAU21 YBRF (AU)																																		0
WSFJ01 NFFN (SR)	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	1	4	4	1	0	0	0	4	1	0	1	1	3		11	
WSFJ01 NFFN (AU)											2	13							2	13	21	2				8	2		2	5	7		11	
WSSB31 VCBI (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1		7
WSSB31 VCBI (AU)														2	1		2					1	1		1							1		7
WSMV31 VRMM (SR)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1		6	
WSMV31 VRMM (AU)																																		0
WSIN31 VOMM (SR)	4	5	5	7	8	5	4	7	8	3	7	8	3	6	4	4	5	5	2	0	3	6	3	8	7	7	6	8	8	8	6		30	
WSIN31 VOMM (AU)	16	26	25	25	29	15	18	27	29	10	21	29	21	28	22	14	16	21	7		11	32	10	31	23	28	24	33	26	27	19		30	

Sep-12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	No of days SIGMET issued				
WSAH31 OAKB (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
WSAH31 OAKB (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSPK31 OPKC (SR)	5	1	2	3	4	6	4	4	3	3	6	4	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14		
WSPK31 OPKC (AU)																																		0	
WSIN31 VIDP (SR)	0	5	4	4	0	1	3	2	1	0	2	3	3	5	5	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15		
WSIN31 VIDP (AU)	23	24	24	25	24	24	26	24	24	9	10																							11	
WSBW20 VGHS (SR)	6	6	5	7	4	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	30		
WSBW20 VGHS (AU)	8	8	9	8	12	9	14	9	7	7	11	6	8	7	9	8	9	9	9	8	6	9	9	8	8	9	8	9	7	9			30		
WSIN31 VECC (SR)	5	6	7	7	7	3	5	7	3	4	0	0	5	4	6	5	6	5	6	6	3	4	3	1	3	3	1	3	3	5			28		
WSIN31 VECC (AU)						15	29	40	9	25		5	12	18	6	38	30	12	15	21	15	10	3	10	3	12	3	12	14	15			24		
WSBM31 VYYY (SR)	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
WSBM31 VYYY (AU)							1	2																										2	
WSNW20 AYPY (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSNW20 AYPY (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSNG20 AYPY (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSNG20 AYPY (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSSO20 AYPY (SR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSSO20 AYPY (AU)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSAU21 YBRF (SR)	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3	
WSAU21 YBRF (AU)																																			0
WSFJ01 NFFN (SR)	2	4	5	0	0	0	2	2	0	0	0	0	0	0	0	2	4	6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	9	
WSFJ01 NFFN (AU)	5	4	11				5	7								5	13	5				10												9	
WSSB31 VCBI (SR)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	4	
WSSB31 VCBI (AU)								1								1							1	1											4
WSMV31 VRMM (SR)	1	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	7	
WSMV31 VRMM (AU)																																			0
WSIN31 VOMM (SR)	3	8	7	7	0	2	7	7	8	5	2	2	5	5	8	7	4	2	6	5	0	2	1	3	4	8	6	6	8	8			28		
WSIN31 VOMM (AU)	12	32	31	23		8	25	29	28	17	8	7	20	22	28	26	22	12	21	18		6	3	12	28		25	24	34	29			27		