



International Civil Aviation Organization

**SEVENTEENTH MEETING OF THE METEOROLOGY
SUB-GROUP (MET SG/17) OF APANPIRG**

Bangkok, Thailand, 13 – 16 May 2013

Agenda Item 8: OPMET (TAF, METAR, SPECI) Exchanges

8.4) SIGMET tests

PROGRESS WITH SIGMET TESTS – WC AND WV

(Presented by Japan)

SUMMARY

This paper presents the results of the ASIA/PAC SIGMET test conducted in November 2011 for TC and VA.

1. Introduction

1.1 The MET Divisional Meeting (2002) formulated Recommendation 1/12 b), Implementation of SIGMET requirements, which called, inter alia, for the relevant Planning and Implementation Regional Groups (PIRGs) to conduct periodic tests of the issuance and reception of SIGMET messages, especially those for volcanic ash.

1.2 The OPMET Management Task Force (OPMET/M TF) 10th meeting reviewed the results of SIGMET tests in the Asia/Pac Region held in November 2011. After the meeting, it is decided that the WC, WV and WS SIGMET tests would be conducted on 07, 14 and 21 November 2012, respectively.

1.3 The Regional SIGMET tests were conducted as follows.

SIGMET for	2005	2006	2007	2008	2009		2010	2011	2012
tropical cyclone	2/18	1/26	1/15	1/15	2/10	11/10	11/10	11/08	11/07
volcanic ash	1/18	1/19	1/22	1/22	2/17	11/17	11/17	11/15	11/14

1.4 ICAO APAC Office sent a state letter, *Schedule for SIGMET tests in the Asia/Pacific Region – November 2012*, which notified the schedule and the procedure of the regional SIGMET tests as follows.

- Test for SIGMET for tropical cyclones (WC SIGMET) – 07 November 2012, start time (time of issuance of triggering tropical cyclone advisory by the TCACs concerned) 0200 UTC;

Note that for TCAC New Delhi, test tropical cyclone advisories will be issued at 0200 UTC for the ASIA/PAC Region and 0800 UTC for the MID Region

- Test for SIGMET for volcanic ash (WV SIGMET) – 14 November 2012, start time (time of issuance of the triggering volcanic ash advisory by the VAACs concerned) 0200 UTC;
- Test for SIGMET for other weather phenomena (WS SIGMET) – 21 November 2012, start time 0200 UTC.

2. Test Results and Analysis

2.1 Three RODBs in the Region and WAFC London sent the summary of the reception of the TC and VA tests to Japan, Rapporteur of the SIGMET test. The combined information of the reception of the bulletins during the test on TC and VA is shown in the Appendix A and B, respectively. In this paper, the overall availability means that the test bulletin which was received at least one RODB is regarded as available.

2.2 Summary of WC SIGMET test

2.2.1 Total number of WC SIGMET bulletins expected to be reported during the test from ASIA/PAC States was 46 and that received during the WC SIGMET test was 32, although there were some bulletins with incorrect formats or WMO headings. The overall availability of the test WC SIGMET from ASIA/PAC States was about 70%. The availability was slightly higher than that of the SIGMET test in 2011. Compared with the result in 2011, bulletins from OPLA, RPLL, VGHS and VLVT were newly appeared in this WC SIGMET test.

2.2.2 The Appendix A is the summary of the WC SIGMET test. The format of the received time is “GGgg” where GG and gg are hour and minute, respectively. Yellow colored cell indicates incorrect headers or format. The key issue related to incorrect WMO heading, especially for TT (WS, WC or WV), remains unchanged.

2.2.3 The figure 1 shows the availability of the WC SIGMET test at each RODB since 2009. The availability of the SIGMET test in 2012 is almost same as that in 2011.

2.3 Summary of WV SIGMET test

2.3.1 Total number of WV SIGMET bulletins expected to be reported during the test from ASIA/PAC States was 49. RODB Tokyo relayed the 9 Russian WV SIGMETs (UELL, UEST, UHHH, UHMAs, UHMM, UHPP, UIAA and UIII). Therefore the total number of WV SIGMET bulletins expected to be reported during the WV SIGMET test was 58. The total number of WV SIGMET bulletins received during the test from ASIA/PAC and from Russia was 35 and 8, respectively. The availability in the ASIA/PAC region was 72% which was almost the same as that of the SIGMET test in 2011.

2.3.2 The Appendix B is the summary of the WV SIGMET test. The format of the received time and the mean of the yellow colored cell are the same as those of the Appendix A. The incorrect WMO heading is also for TT.

2.3.3 The figure 2 shows the availability of the WV SIGMET test at each RODB since 2009. The availability of the SIGMET test in 2012 is almost same as that in 2011

2.4 Summary of SIGMET tests

2.4.1 Overall availability of both WC and WV test bulletins for 2012 was improved than that of 2011. However, some MWOs issued test bulletins with completely same message for several times. It is desirable to improve this point, since it might cause confusion among participating countries when they analyze the result of SIGMET Test.

3. Action by the Meeting

3.1 The meeting is invited to note the results of the SIGMET tests presented in this paper.

Appendix A
Summary of the WC SIGMET test results

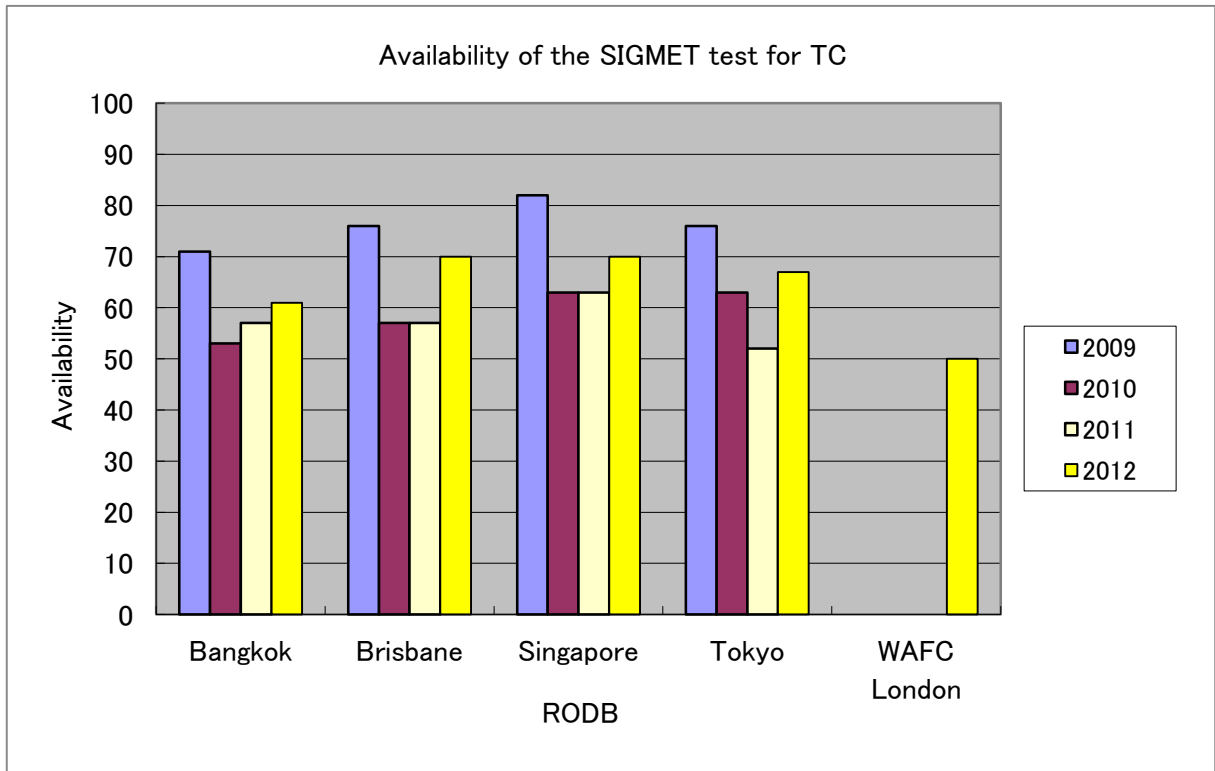


Figure 1 Availability of the SIGMET test for TC

Header According to SIGMET Guide				Test Result						Received Time(UTC)					
MWO	TAAii	CQCG	FIR	Priority	TAAii	CQCG	YYGGgg	MWO	FIR	WSSS	VTBB	YBBN	RJTD	LOWN	
AYPY	WVNW20	AYPY	ANAU	-	-	-	-	-	-	-	-	-	-	-	
AYPY	WVNG20	AYPY	AYPY	-	-	-	-	-	-	-	-	-	-	-	
AYPY	WVSO20	AYPY	AGGG	-	-	-	-	-	-	-	-	-	-	-	
KKCI	WVPA01-13	KKCI	KZAK	-	-	-	-	-	-	-	-	-	-	0214	
NFFN	WVJ01,02,...	NFFN	NFFF	FF	WVJ01	NFFN	140000	NFFN	NFFF	0203	0204	0203	0203	0203	
NTAA	WVFP21	NTAA	NTTT	-	-	-	-	-	-	-	-	-	-	-	
NZKL	WVNZ21	NZKL	NZZC	FF	WVNZ21	NZKL	140201	NZKL	NZZC	0202	0202	0201	0202	0201	
NZKL	WVPS21	NZKL	NZZO	FF	WVPS21	NZKL	140201	NZKL	NZZO	0201	0202	0201	0201	0201	
OAKB	WVAH31	OAKB	OAKX	-	-	-	-	-	-	-	-	-	-	-	
OPKC	WVPK31	OPKC	OPKR	DD	WVPK31	OPKC	140205	OPKC	OPKR	0203	0204	0203	0203	-	
OPLA	WVPK31	OPLA	OPLR	FF	WVPK31	OPLA	140200	OPLA	OPLR	0159	0157	0152	-	0203	
PAWU	WVAK01-09	PAWU	PAZA	DD	WSAK01	PAWU	140201	PAWU	PAZA	0205	-	-	-	-	
PHFO	WVPA01-13	PHFO	KZAK	-	-	-	140202	-	-	-	-	-	-	0204	
RCTP	WVCI31	RCTP	RCAA	FF	WVCI31	RCTP	140203	RCTP	RCAA	0202	0203	0203	0202	0204	
RJTD	WVJP31	RJTD	RJJJ	FF	WVJP31	RJTD	140205	RJTD	RJJJ	0205	0206	0205	0212	0205	
RKSI	WVKO31	RKSI	RKRR	FF	WVKO31	RKSI	140203	RKSI	RKRR	0203	0204	0203	0203	0203	
RPLL	WVPH31	RPLL	RPHI	FF	WVPH31	RPLL	140200	RPLL	RPHI	0200	0201	0200	0200	0200	
UELL	WVRA32	RUYK	UELL	FF	WVRA32	RUYK	140202	RUYK	UELL	0203	0203	0202	-	0204	
UEST	WVRA38	RUYK	UEST	FF	WVRA38	RUYK	140204	RUYK	UEST	0207	0209	0208	0209	0207	
UHMH	WVRA31	RUHB	UHMH	FF	WVRA31	RUHB	140152	RUHB	UHMH	0205	0205	0203	0204	0205	
UHMA	WVRA31	RUPV	UHMP	-	-	-	-	-	-	-	-	-	-	-	
UHMA	WVRA32	RUPV	UHMA	FF	WVRA32	RUPV	140205	RUPV	UHMA	0207	0209	0208	0209	0207	
UHMM	WVRA31	RUMG	UHMM	FF	WVRA31	RUMG	140205	RUMG	UHMM	0215	-	-	-	-	
UHPP	WVRA31	RUPK	UHPP	FF	WVRA31	RUPK	140202	RUPK	UHPP	0204	0212	0204	0204	0205	
UIAA	WVRA31	RUCH	UIAA	FF	WVRA31	RUCH	140205	RUCH	UIAA	0208	0208	0207	0216	0208	
UIII	WVRA31	RUIR	UIII	FF	WVRA31	RUIR	140201	RUIR	UIII	0204	0204	0202	0212	0205	
VABB	WVIN31	VABB	VABF	-	-	-	-	-	-	-	-	-	-	-	
VCBI	WVSB31	VCBI	VCBI	-	-	-	-	-	-	-	-	-	-	-	
VECC	WVIN31	VECC	VECF	-	-	-	-	-	-	-	-	-	-	-	
VGHS	WVBW20	VGHS	VGFR	FF	WVBW20	VGHS	140209	VGHS	VGFR	0221	0212	0212	0209	-	
VHHH	WVSS20	VHHH	VHHK	FF	WVSS20	VHHH	140202	VHHH	VHHK	0203	0204	0203	0203	0203	
VIDP	WVIN31	VIDP	VIDF	FF	WVIN31	VIDP	140205	VIDP	VIDF	0210	0211	0205	0210	-	
VLVT	WVLA31	VLVT	VLVT	FF	WVLA31	VLVT	140205	VLVT	VLVT	0253	0254	0248	0253	-	
VOMM	WVIN31	VOMM	VOMF	FF	WVIN31	VOMM	140204	VOMM	VOMF	0206	0207	0200	0206	0206	
VRMM	WVMV31	VRMM	VRMF	DD	WCMV31	VRMM	070226	VRMM	VRMF	-	0231	0231	-	-	
VTBS	WVTH31	VTBS	VTBB	FF	WVTH31	VTBS	140203	VTBS	VTBB	0201	0202	0201	0201	0201	
VVGL	WVVS31	VVGL	VVNB	FF	WVVS31	VVGL	140201	VVGL	VVNB	0203	0204	0201	0203	0205	
VVGL	WVVS31	VVGL	VVTS	FF	WVVS31	VVGL	140203	VVGL	VVTS	0205	0206	-	-	0207	
VYYY	WVBM31	VYYY	VYYY	-	-	-	-	-	-	-	-	-	-	-	
WAAA	WVID21	WAAA	WAAZ	FF	WVID21	WAAA	140200	WAAA	WAAF	0200	-	0200	-	0202	
WIII	WVID20	WIII	WIIZ	-	-	-	-	-	-	-	-	-	-	-	
WMKK	WVMS31	WMKK	WBFC	FF	WVMS31	WMKK	140200	WMKK	WBFC	0201	0202	0155	-	0201	
WMKK	WVMS31	WMKK	WMFC	FF	WVMS31	WMKK	140205	WMKK	WMFC	0200	0201	0155	0200	-	
WSSS	WVSR20	WSSS	WSJC	FF	WVSR20	WSSS	140207	WSSS	WSJC	0208	0209	0203	0208	0210	
YDRM	WVAU01	ADRM	YBBB	DD	WVAU01	ADRM	140204	ADRM	YBBB	0204	0205	0204	0204	0204	
YDRM	WVAU01	ADRM	YMMM	DD	WVAU01	ADRM	140205	ADRM	YMMM	0205	0206	0204	-	0205	
ZBAA	WVCI33	ZBAA	ZBPE	FF	WVCI33	ZBAA	140205	ZBAA	ZBPE	0201	0202	0159	0201	0201	
ZGGG	WVCI35	ZGGG	ZGZU	FF	WVCI35	ZGGG	140205	ZGGG	ZGZU	0211	0207	0205	0206	0211	
ZHHH	WVCI45	ZHHH	ZHWH	FF	WSCI45	ZHHH	140210	ZHHH	ZHWH	0216	0217	-	-	-	
ZJHK	WVCI35	ZJHK	ZJSA	FF	WVCI35	ZJHK	140216	ZJHK	ZJSA	0217	0218	0217	0217	0217	
ZKPY	WVKR31	ZKPY	ZKPK	-	-	-	-	-	-	-	-	-	-	-	
ZLXY	WVCI37	ZLXY	ZLHW	FF	WVCI37	ZLXY	140206	ZLXY	ZLHW	0207	0208	0207	0207	0207	
ZMUB	WVMO31	ZMUB	ZMUB	-	-	-	-	-	-	-	-	-	-	-	
ZSSS	WVCI34	ZSSS	ZSHA	FF	WVCI34	ZSSS	140205	ZSSS	ZSHA	0206	0202	0201	0202	0202	
ZUUU	WVCP31	VDPP	VDPP	FF	WVCP31	ZUUU	140205	ZUUU	VDPP	0205	0206	0203	0205	0205	
ZUUU	WVCI36	ZUUU	ZPKM	FF	WVCI36	ZUUU	140202	ZUUU	ZPKM	0202	0203	0159	0202	0202	
ZWWW	WVCI39	ZWWW	ZWUQ	FF	WVCI39	ZWWW	140201	ZWWW	ZWUQ	0208	0209	0209	0208	0209	
ZYTX	WVCI38	ZYTX	ZYSH	FF	WVCI38	ZYTX	140205	ZYTX	ZYSH	0202	0202	0201	0201	0202	
NOT Listed on SIGMET Guide				FF	WVMG31	FMMI	140210	FMMI	FMMM	0217				0212	
				GG	WVBD20	WBSB	140205	WBSB	WBSB	0632	0632				
				GG	WVZA31	FAJS	140630	FAJS	FAJS	0636	0637				

Appendix B
Summary of the WV SIGMET test results

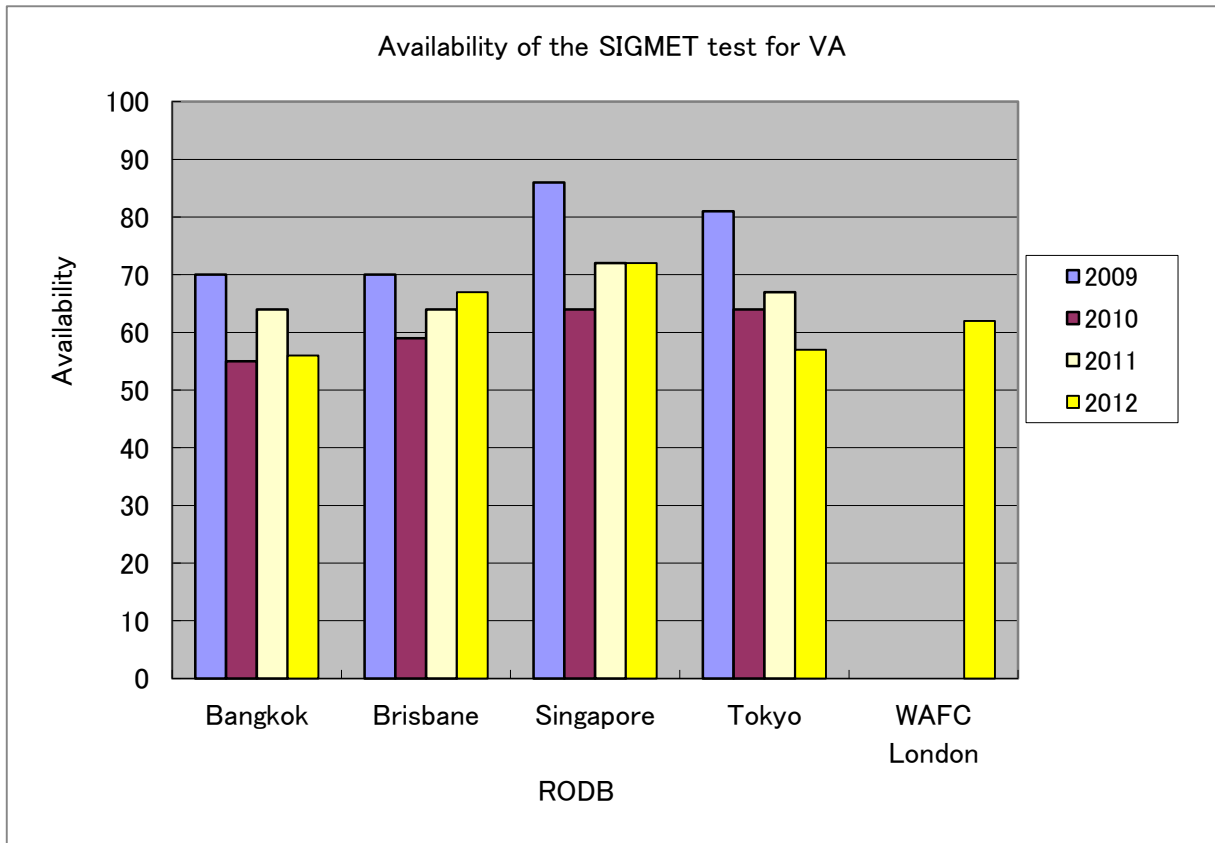


Figure 2 Availability of the SIGMET test for VA

Header According to SIGMET Guide				Test Result						Received Time(UTC)					
MWO	TAAii	CQCG	FIR	Priority	TAAii	CQCG	YYGGgg	MWO	FIR	WSSS	VTBB	YBBN	RJTD	LOWN	
AYPY	WVNW20	AYPY	ANAU	-	-	-	-	-	-	-	-	-	-	-	
AYPY	WVNG20	AYPY	AYPY	-	-	-	-	-	-	-	-	-	-	-	
AYPY	WVSO20	AYPY	AGGG	-	-	-	-	-	-	-	-	-	-	-	
KKCI	WVPA01-13	KKCI	KZAK	-	-	-	-	-	-	-	-	-	-	0214	
NFFN	WVJ01,02,...	NFFN	NFFF	FF	WVJ01	NFFN	140000	NFFN	NFFF	0203	0204	0203	0203	0203	
NTAA	WVFP21	NTAA	NTTT	-	-	-	-	-	-	-	-	-	-	-	
NZKL	WVNZ21	NZKL	NZZC	FF	WVNZ21	NZKL	140201	NZKL	NZZC	0202	0202	0201	0202	0201	
NZKL	WVPS21	NZKL	NZZO	FF	WVPS21	NZKL	140201	NZKL	NZZO	0201	0202	0201	0201	0201	
OAKB	WVAH31	OAKB	OAKX	-	-	-	-	-	-	-	-	-	-	-	
OPKC	WVPK31	OPKC	OPKR	DD	WVPK31	OPKC	140205	OPKC	OPKR	0203	0204	0203	0203	-	
OPLA	WVPK31	OPLA	OPLR	FF	WVPK31	OPLA	140200	OPLA	OPLR	0159	0157	0152	-	0203	
PAWU	WVAK01-09	PAWU	PAZA	DD	WSAK01	PAWU	140201	PAWU	PAZA	0205	-	-	-	-	
PHFO	WVPA01-13	PHFO	KZAK	-	-	-	140202	-	-	-	-	-	-	0204	
RCTP	WVCI31	RCTP	RCAA	FF	WVCI31	RCTP	140203	RCTP	RCAA	0202	0203	0203	0202	0204	
RJTD	WVJP31	RJTD	RJJJ	FF	WVJP31	RJTD	140205	RJTD	RJJJ	0205	0206	0205	0212	0205	
RKSI	WVKO31	RKSI	RKRR	FF	WVKO31	RKSI	140203	RKSI	RKRR	0203	0204	0203	0203	0203	
RPLL	WVPH31	RPLL	RPHI	FF	WVPH31	RPLL	140200	RPLL	RPHI	0200	0201	0200	0200	0200	
UELL	WVRA32	RUYK	UELL	FF	WVRA32	RUYK	140202	RUYK	UELL	0203	0203	0202	-	0204	
UEST	WVRA38	RUYK	UEST	FF	WVRA38	RUYK	140204	RUYK	UEST	0207	0209	0208	0209	0207	
UHMH	WVRA31	RUHB	UHMH	FF	WVRA31	RUHB	140152	RUHB	UHMH	0205	0205	0203	0204	0205	
UHMA	WVRA31	RUPV	UHMP	-	-	-	-	-	-	-	-	-	-	-	
UHMA	WVRA32	RUPV	UHMA	FF	WVRA32	RUPV	140205	RUPV	UHMA	0207	0209	0208	0209	0207	
UHMM	WVRA31	RUMG	UHMM	FF	WVRA31	RUMG	140205	RUMG	UHMM	0215	-	-	-	-	
UHPP	WVRA31	RUPK	UHPP	FF	WVRA31	RUPK	140202	RUPK	UHPP	0204	0212	0204	0204	0205	
UIAA	WVRA31	RUCH	UIAA	FF	WVRA31	RUCH	140205	RUCH	UIAA	0208	0208	0207	0216	0208	
UIII	WVRA31	RUIR	UIII	FF	WVRA31	RUIR	140201	RUIR	UIII	0204	0204	0202	0212	0205	
VABB	WVIN31	VABB	VABF	-	-	-	-	-	-	-	-	-	-	-	
VCBI	WVSB31	VCBI	VCBI	-	-	-	-	-	-	-	-	-	-	-	
VECC	WVIN31	VECC	VECF	-	-	-	-	-	-	-	-	-	-	-	
VGHS	WVBW20	VGHS	VGFR	FF	WVBW20	VGHS	140209	VGHS	VGFR	0221	0212	0212	0209	-	
VHHH	WVSS20	VHHH	VHHK	FF	WVSS20	VHHH	140202	VHHH	VHHK	0203	0204	0203	0203	0203	
VIDP	WVIN31	VIDP	VIDF	FF	WVIN31	VIDP	140205	VIDP	VIDF	0210	0211	0205	0210	-	
VLVT	WVLA31	VLVT	VLVT	FF	WVLA31	VLVT	140205	VLVT	VLVT	0253	0254	0248	0253	-	
VOMM	WVIN31	VOMM	VOMF	FF	WVIN31	VOMM	140204	VOMM	VOMF	0206	0207	0200	0206	0206	
VRMM	WVMV31	VRMM	VRMF	DD	WCMV31	VRMM	070226	VRMM	VRMF	-	0231	0231	-	-	
VTBS	WVTH31	VTBS	VTBB	FF	WVTH31	VTBS	140203	VTBS	VTBB	0201	0202	0201	0201	0201	
VVGL	WVVS31	VVGL	VVNB	FF	WVVS31	VVGL	140201	VVGL	VVNB	0203	0204	0201	0203	0205	
VVGL	WVVS31	VVGL	VVTS	FF	WVVS31	VVGL	140203	VVGL	VVTS	0205	0206	-	-	0207	
VYYY	WVBM31	VYYY	VYYY	-	-	-	-	-	-	-	-	-	-	-	
WAAA	WVID21	WAAA	WAAZ	FF	WVID21	WAAA	140200	WAAA	WAAF	0200	-	0200	-	0202	
WIII	WVID20	WIII	WIIZ	-	-	-	-	-	-	-	-	-	-	-	
WMKK	WVMS31	WMKK	WBFC	FF	WVMS31	WMKK	140200	WMKK	WBFC	0201	0202	0155	-	0201	
WMKK	WVMS31	WMKK	WMFC	FF	WVMS31	WMKK	140205	WMKK	WMFC	0200	0201	0155	0200	-	
WSSS	WVSR20	WSSS	WSJC	FF	WVSR20	WSSS	140207	WSSS	WSJC	0208	0209	0203	0208	0210	
YDRM	WVAU01	ADRM	YBBB	DD	WVAU01	ADRM	140204	ADRM	YBBB	0204	0205	0204	0204	0204	
YDRM	WVAU01	ADRM	YMMM	DD	WVAU01	ADRM	140205	ADRM	YMMM	0205	0206	0204	-	0205	
ZBAA	WVCI33	ZBAA	ZBPE	FF	WVCI33	ZBAA	140205	ZBAA	ZBPE	0201	0202	0159	0201	0201	
ZGGG	WVCI35	ZGGG	ZGZU	FF	WVCI35	ZGGG	140205	ZGGG	ZGZU	0211	0207	0205	0206	0211	
ZHHH	WVCI45	ZHHH	ZHWH	FF	WSCI45	ZHHH	140210	ZHHH	ZHWH	0216	0217	-	-	-	
ZJHK	WVCI35	ZJHK	ZJSA	FF	WVCI35	ZJHK	140216	ZJHK	ZJSA	0217	0218	0217	0217	0217	
ZKPY	WVKR31	ZKPY	ZKPK	-	-	-	-	-	-	-	-	-	-	-	
ZLXY	WVCI37	ZLXY	ZLHW	FF	WVCI37	ZLXY	140206	ZLXY	ZLHW	0207	0208	0207	0207	0207	
ZMUB	WVMO31	ZMUB	ZMUB	-	-	-	-	-	-	-	-	-	-	-	
ZSSS	WVCI34	ZSSS	ZSHA	FF	WVCI34	ZSSS	140205	ZSSS	ZSHA	0206	0202	0201	0202	0202	
ZUUU	WVCP31	VDPP	VDPP	FF	WVCP31	ZUUU	140205	ZUUU	VDPP	0205	0206	0203	0205	0205	
ZUUU	WVCI36	ZUUU	ZPKM	FF	WVCI36	ZUUU	140202	ZUUU	ZPKM	0202	0203	0159	0202	0202	
ZWWW	WVCI39	ZWWW	ZWUQ	FF	WVCI39	ZWWW	140201	ZWWW	ZWUQ	0208	0209	0209	0208	0209	
ZYTX	WVCI38	ZYTX	ZYSH	FF	WVCI38	ZYTX	140205	ZYTX	ZYSH	0202	0202	0201	0201	0202	
NOT Listed on SIGMET Guide				FF	WVMG31	FMMI	140210	FMMI	FMMM	0217				0212	
				GG	WVBD20	WBSB	140205	WBSB	WBSB	0632	0632				
				GG	WVZA31	FAJS	140630	FAJS	FAJS	0636	0637				