International Civil Aviation Organization

THE ELEVENTH MEETING OF ASIA/PACIFIC ROBEX WORKING GRROUP (ROBEX WG/11)

Bangkok, Thailand, 11 – 13 March 2013

Agenda Item C2: SIGMET

a) SIGMET tests *(Activity 3 – ROBEX WG)*

PROGRESS WITH SIGMET TESTS – WC and WV

(Presented by Japan)

SUMMARY

This paper presents the results of the AISA/PAC SIGMET tests conducted in November 2012 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.

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

2. PREPARATION FOR THE TEST

2.1 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.

3. TEST RESULTS AND ANALYSIS

3.1 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.

3.2 Summary of WC SIGMET test

3.2.1 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.

3.2.2 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.

3.2.3 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.

3.3 Summary of WV SIGMET test

3.3.1 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.

3.3.2 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.

3.3.3 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

3.4 Summary of SIGMET tests

3.4.1 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.

4. ACTION BY THE MEETING

4.1 The meeting is invited to note the results of the SIGMET tests presented above and discuss on the future improvement of the SIGMET exchange in the region.

4.2 The meeting is also invited to discuss, if necessary, revision of the test procedure.

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Appendix A
Summary of the WC SIGMET test results

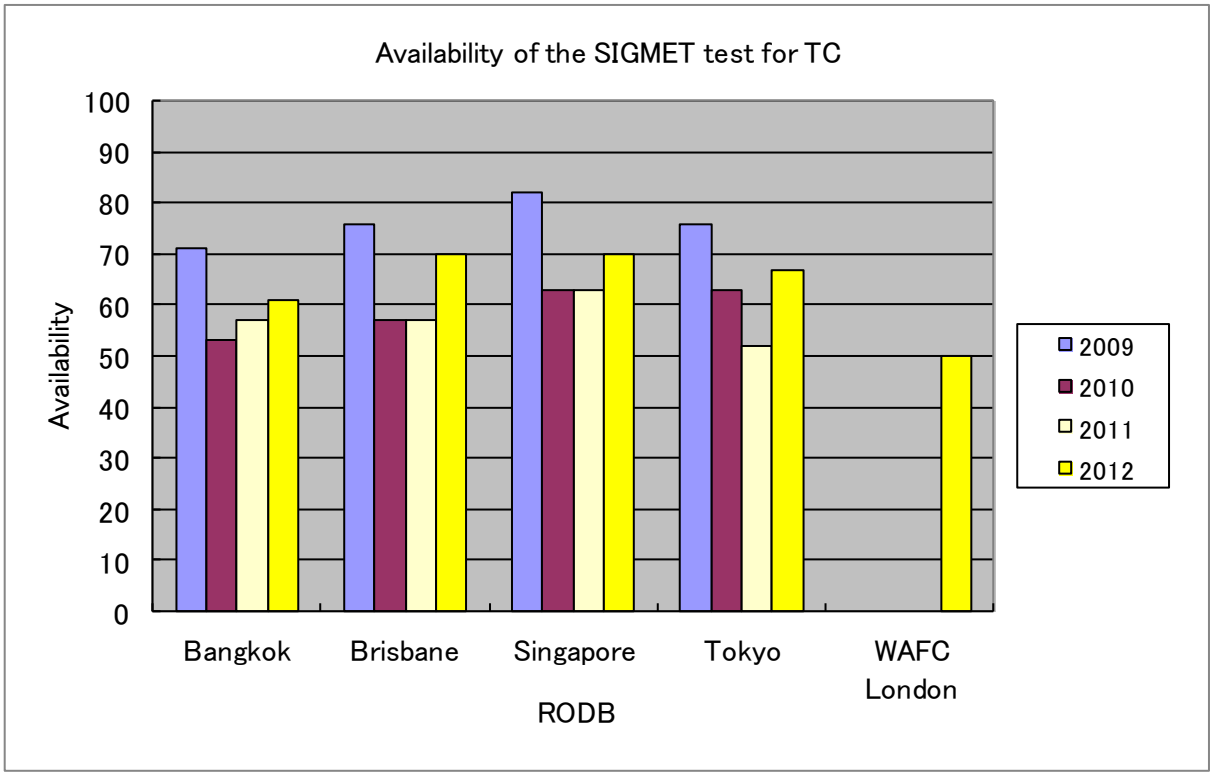

Figure 1 Availability of the SIGMET test for TC

Header According to SIGMET Guide				Test Result						Received Time(UTC)				
MWO	TTAAii	CCCC	FIR	Priority	TTAAii	CCCC	YYGGgg	MWO	FIR	WSSS	VTBB	YBBN	RJTD	LOWN
AYPY	WCNW20	AYPY	ANAU	–	–	–	–	–	–	–	–	–	–	–
AYPY	WCNG20	AYPY	AYPY	–	–	–	–	–	–	–	–	–	–	–
AYPY	WCSO20	AYPY	AGGG	–	–	–	–	–	–	–	–	–	–	–
KKCI	WCPN01-13	KKCI	KZAK	DD	WCPN01	KKCI	070200	KKCI	KZAK	0204	–	0200	0207	0204
NFFN	WCFJ01,02,…	NFFN	NFFF	FF	WCFJ01	NFFN	070000	NFFN	NFFF	0158	0159	0158	0206	0158
NTAA	WCPF21	NTAA	NTTT	–	–	–	–	–	–	–	–	–	–	–
NZKL	WCNZ21	NZKL	NZZC	–	–	–	–	–	–	–	–	–	–	–
NZKL	WCPS21	NZKL	NZZO	FF	WCPS21	NZKL	070201	NZKL	NZZO	0201	0202	0201	0201	0201
OPKC	WCPK31	OPKC	OPKR	GG	WCPK31	OPKC	070205	OPKC	OPKR	0209	0210	0209	0210	–
OPLA	WCPK31	OPLA	OPLR	GG	WSPK31	OPLA	070200	OPLA	OPLA	0206	–	0204	–	–
PAWU	WCAK01-09	PAWU	PAZA	–	–	–	–	–	–	–	–	–	–	–
PHFO	WCPA01-13	PHFO	KZAK	DD	WCPA01	PHFO	070200	PHFO	KZAK	0204	–	0200	0207	–
RCTP	WCCI31	RCTP	RCAA	–	–	–	–	–	–	–		–	–	–
RJTD	WCJP31	RJTD	RJJJ	FF	WCJP31	RJTD	070205	RJTD	RJJJ	0205	0206	0205	0213	0205
RKSI	WCKO31	RKSI	RKRR	FF	WCKO31	RKSI	070204	RKSI	RKRR	0204	0205	0204	0204	–
RPLL	WCPH31	RPLL	RPHI	FF	WCPH31	RPLL	070200	RPLL	RPHI	0205	0205	0204	0205	0204
VABB	WCIN31	VABB	VABF	FF	WCIN31	VABB	070205	VABB	VABF	0205	0206	0204	0436	0205
VCBI	WCSB31	VCBI	VCBI	–	–	–	–	–	–	–	–	–	–	–
VECC	WCIN31	VECC	VECF	FF	WCIN31	VECC	070201	VECC	VECF	0204	0205	0204	0204	0207
VGHS	WCBW20	VGHS	VGFR	FF	WCBW20	VGHS	070206	VGHS	VGHS	0218	0219	0214	0218	–
VHHH	WCSS20	VHHH	VHHK	FF	WCSS20	VHHH	070201	VHHH	VHHK	0202	0203	0201	0202	0202
VIDP	WCIN31	VIDP	VIDF	FF	WCIN31	VIDP	070205	VIDP	VIDF	0218	0219	0204	0218	–
VLVT	WCLA31	VLVT	VLVT	FF	WCLA31	VLVT	070205	VLVT	VLVT	0200	0201	0200	0200	–
VOMM	WCIN31	VOMM	VOMF	FF	WCIN31	VOMM	070205	VOMM	VOMF	0205	0206	0204	0205	0205
VRMM	WCMV31	VRMM	VRMF	DD	WCMV31	VRMM	070205	VRMM	VRMF	0204	0205	0153	0204	0204
VTBS	WCTH31	VTBS	VTBB	FF	WCTH31	VTBS	070205	VTBS	VTBB	0203:	0203	0202	0203	–
VVGL	WCVS31	VVGL	VVNB	FF	WCVS31	VVGL	070201	VVGL	VVNB	0202	0203	0201	0202	0202
VVGL	WCVS31	VVGL	VVTS	FF	WCVS31	VVGL	070202	VVGL	VVTS	0204	0205	0201	0204	0204
VYYY	WCBM31	VYYY	VYYY	–	–	–	–	–	–	–	–	–	–	–
WAAA	WCID21	WAAA	WAAZ	–	–	–	–	–	–	–	–	–	–	–
WIII	WCID20	WIII	WIIZ	–	–	–	–	–	–	–	–	–	–	–
WMKK	WCMS31	WMKK	WBFC	FF	WCMS31	WMKK	070200	WMKK	WBFC	0200	0201	0200	0200	0200
WMKK	WCMS31	WMKK	WMFC	FF	WCMS31	WMKK	070200	WMKK	WMFC	0207	0208	0200	0207	0207
WSSS	WCSR20	WSSS	WSJC	FF	WCSR20	WSSS	070205	WSSS	WSJC	0205	0206	0205	0205	0205
YBRF	WCAU01	ABRF	YBBB	DD	WCAU01	ABRF	070229	ABRF	YBBB	0229	–	0229	0306	–
YBRF	WCAU01	ABRF	YMMM	–	–	–	–	–	–	–	–	–	–	–
YDRM	WCAU01	ADRM	YBBB	DD	WCAU01	ADRM	070214	ADRM	YBBB	0214	0215	0214	0221	0214
YDRM	WCAU01	ADRM	YMMM	–	–	–	–	–	–	–	–	–	–	–
YPRF	WCAU01	APRF	YBBB	DD	WCAU01	APRF	070224	APRF	YBBB	0228	0225	0224	0224	0224
YPRF	WCAU01	APRF	YMMM	DD	WCAU01	APRF	070224	APRF	YMMM	0228	0225	0224	0224	0224
ZBAA	WCCI33	ZBAA	ZBPE	FF	WCCI33	ZBAA	070205	ZBAA	ZBPE	0213	0214	0211	0213	0213
ZGGG	WCCI35	ZGGG	ZGZU	FF	WCCI35	ZGGG	070205	ZGGG	ZGZU	0204	0205	0203	0204	0203
ZJHK	WCCI35	ZJHK	ZJSA	FF	WCCI35	ZJHK	070205	ZJHK	ZJSA	0206	0206	0203	0206	0207
ZKPY	WCKR31	ZKPY	ZKKP	–	–	–	–	–	–	–	–	–	–	–
ZSSS	WCCI34	ZSSS	ZSHA	FF	WCCI34	ZSSS	070205	ZSSS	ZSHA	0204	0204	0200	0203	0203
ZUUU	WCKP31	ZUUU	VDPP	FF	WCKP31	ZUUU	070235	ZUUU	VDPP	0234	0235	0234	0234	0234
Not Listed in SIGMET Guide				GG	WCBD01	WBSB	070000	WBSB	WBSB	0224	0225	–	–	–
				FF	WCAE20	OMAA	070900	OMAA	OMAE	0938	0921	0930	–	–
				FF	WCIR31	OIII	070914	OIII	OIIX	0939	0940	0939	–	–

Appendix B
Summary of the WV SIGMET test results

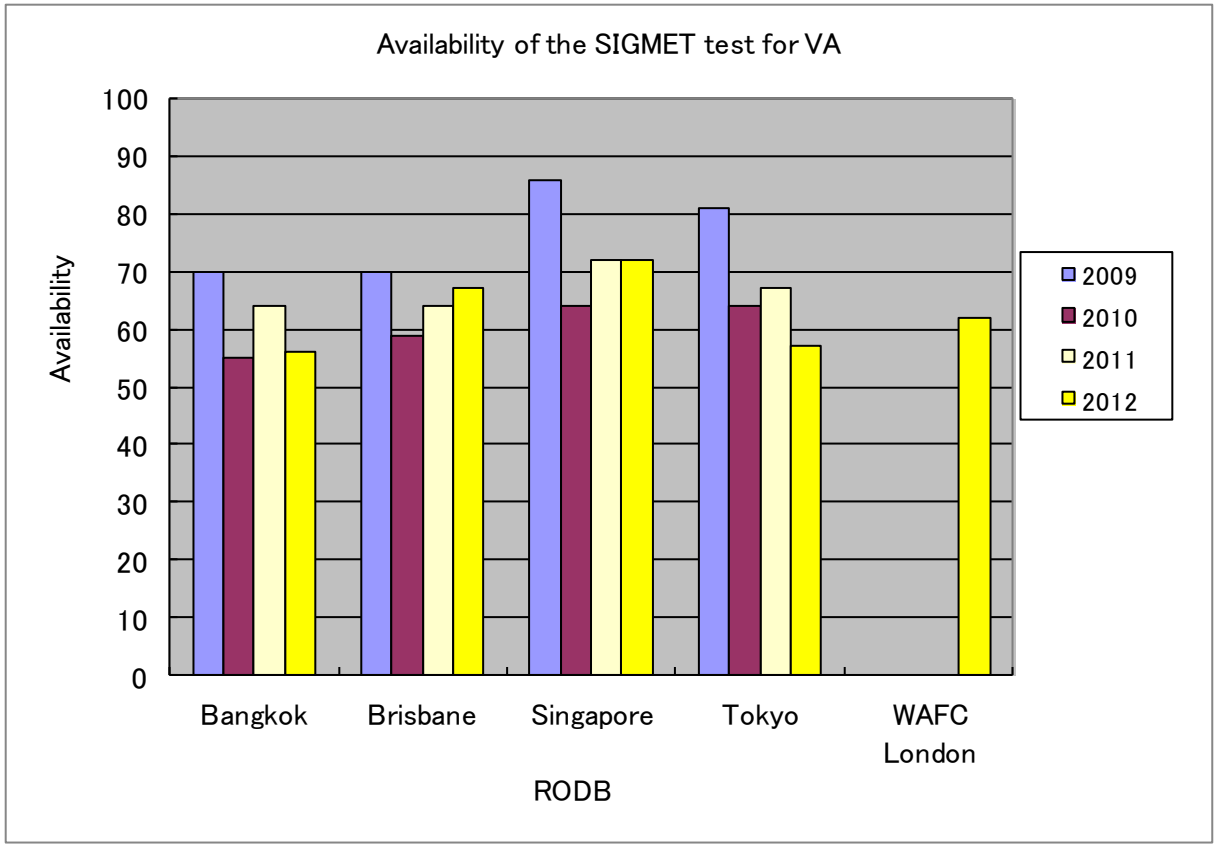

Figure 2 Availability of the SIGMET test for VA

Header According to SIGMET Guide				Test Result						Received Time(UTC)				
MWO	TTAAii	CCCC	FIR	Priority	TTAAii	CCCC	YYGGgg	MWO	FIR	WSSS	VTBB	YBBN	RJTD	LOWN
AYPY	WVNW20	AYPY	ANAU	–	–	–	–	–	–	–	–	–	–	–
AYPY	WVNG20	AYPY	AYPY	–	–	–	–	–	–	–	–	–	–	–
AYPY	WVSO20	AYPY	AGGG	–	–	–	–	–	–	–	–	–	–	–
KKCI	WVPN01-13	KKCI	KZAK	–	–	–	–	–	–	–	–	–	–	0214
NFFN	WVFJ01,02,…	NFFN	NFFF	FF	WVFJ01	NFFN	140000	NFFN	NFFF	0203	0204	0203	0203	0203
NTAA	WVPF21	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
UHHH	WVRA31	RUHB	UHHH	FF	WVRA31	RUHB	140152	RUHB	UHHH	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	ZKKP	–	–	–	–	–	–	–	–	–	–	–
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	WVKP31	VDPP	VDPP	FF	WVPK31	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			