



International Civil Aviation Organization

**NINTH MEETING OF THE ASIA/PACIFIC OPMET MANAGEMENT
TASK FORCE (OPMET/M TF/9)**

Bangkok, Thailand, 21 – 23 March 2011

Agenda Item Conjoint: SIGMET

a) SIGMET Tests

WS SIGMET TEST 6

(Presented by Sue O'Rourke - AUSTRALIA)

SUMMARY

This paper analyses the data collected during WS SIGMET Test 6 carried out on 24 November 2010 and compares it with previous tests.

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 Information on the requirements for the dissemination and exchange of SIGMET is published in the Asia/Pacific Regional SIGMET Guide (4th edition 2007, amended September 2010). This document also outlines the procedures for conducting SIGMET tests.

1.3 The ROBEX Handbook (12th edition 2004, amended August 2010) provides details on the procedures for OPMET exchange and defines the responsibilities of the ROBEX centres and the content and format of the ROBEX bulletins. It also outlines the procedures for OPMET quality control and procedures.

1.4 This paper presents an analysis of the sixth WS SIGMET test and a comparison with the previous tests that were conducted as follows:

| Test Type | 2006 | 2007 | 2008 | 2009 | 2009 | 2010 |
|---------------------------------|-------|-------|--------|--------|--------|--------|
| SIGMET for other phenomena (WS) | 9 Feb | 9 Feb | 29 Jan | 24 Feb | 24 Nov | 24 Nov |

2. PREPARATION FOR THE SIXTH WS SIGMET TEST

2.1 ICAO APAC Office sent a State letter titled ‘T 4/7.5: AP145/10 (MET) – Schedule for SIGMET tests in the Asia/Pacific Region – November 2010’ dated 16 September 2010, notifying the schedule and procedures for the sixth WS SIGMET test and the seventh WV and WC SIGMET tests. The letter was sent to the Meteorological Authority, and to the Meteorological Service Provider where known to help promote awareness of the test.

2.2 The test date for SIGMET for other weather phenomena (WS SIGMET) was set for 24 November 2010, with a start time of 0200 UTC.

3. WS SIGMET TEST DATA

3.1 All five RODBs in the Region, Bangkok, Brisbane, Tokyo, Singapore and Nadi provided summaries of the reception of the WS SIGMET tests to the focal point for the WS SIGMET Tests in the Asia/Pacific region, Mrs Sue O’Rourke. An overview of the data is shown in **Appendix 1**.

4. WS SIGMET TEST ISSUANCE

4.1 **State Issuance.** A total of 16 of the possible 29 States (55%) listed in the Asia/Pacific Regional SIGMET Guide, Appendix H, participated in Test 6, by having at least one of their MWOs issue a test SIGMET. This is a decrease from Test 5 when a total of 19 out of 27 States (70%) participated. A total of 13 States did not issue a WS SIGMET during the test period (see Table 1). There are 7 States (24%) that have not participated in any of the six tests (these are given in bold). It should be noted that Papua New Guinea has responsibility for SIGMET issuance on behalf of Nauru and the Solomon Islands.

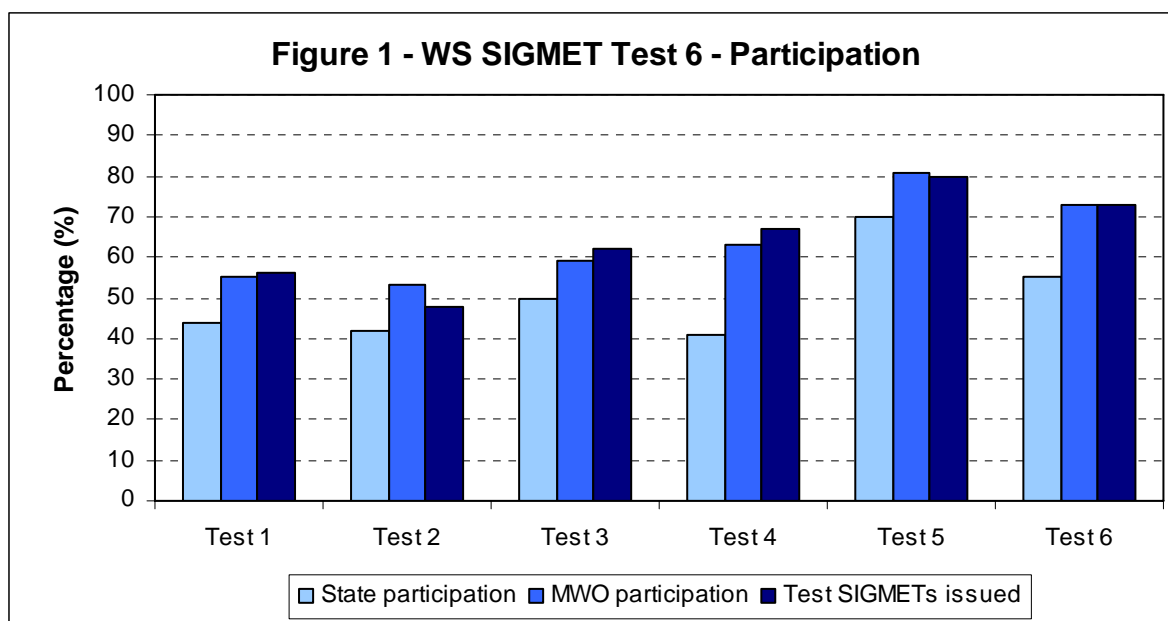
| States who did not participate in the WS SIGMET test | | |
|--|-----------------|-----------------------------|
| 1. Afghanistan | 6. Myanmar | 10. Papua New Guinea |
| 2. Bangladesh | 7. Nauru | 11. Republic of Korea |
| 3. French Polynesia | 8. Nepal | 12. Solomon Islands |
| 4. Lao PDR | 9. Pakistan | 13. Sri Lanka |
| 5. Mongolia | | |

Table 1: States who did not participate in WS SIGMET Test 6.

4.2 **MWO Issuance.** A total of 37 of the possible 51 MWOs (73%) listed in the Asia/Pacific Regional SIGMET Guide, Appendix H, issued a test WS SIGMET for at least one of their FIRs. This again is a decrease from the previous test. The 14 MWOs (27%) that did not participate in Test 6 are given in Table 2, with bold indicating the 7 MWOs (14%) that haven’t participated in any of the six tests. Figure 1 highlights the changes in WS SIGMET participation over the last six years.

| MWOs who did not participate in the WS SIGMET test | | |
|--|--------------------------------|---|
| 1. KABAL AD | 7. ULAN BAATAR | 11. LAHORE/Allama Iqbal Intl |
| 2. MELBOURNE/World Met. Centre | 8. YANGON/Yangon International | 12. PORT MORESBY/Intl |
| 3. DHAKA/Zia Intl | 9. KATHMANDU | 13. INCHEON |
| 4. TAHITI/Faaa | 10. KARACHI/Jinnah Intl | 14. COLOMBO/Bandaranaik Intl Airport Colombo |
| 5. UJUNG PANDANG/Hasanuddin | | |
| 6. VIENTIANE/Wattay | | |

Table 2: MWOs who did not participate in WS SIGMET Test 6.



4.3 **FIR Coverage.** Table 3 lists the 17 FIRs (or part thereof) not covered during WS SIGMET Test 6. The FIRs not covered by any of the six WS SIGMET tests are given in bold and indicated on the map given at **Appendix 2**.

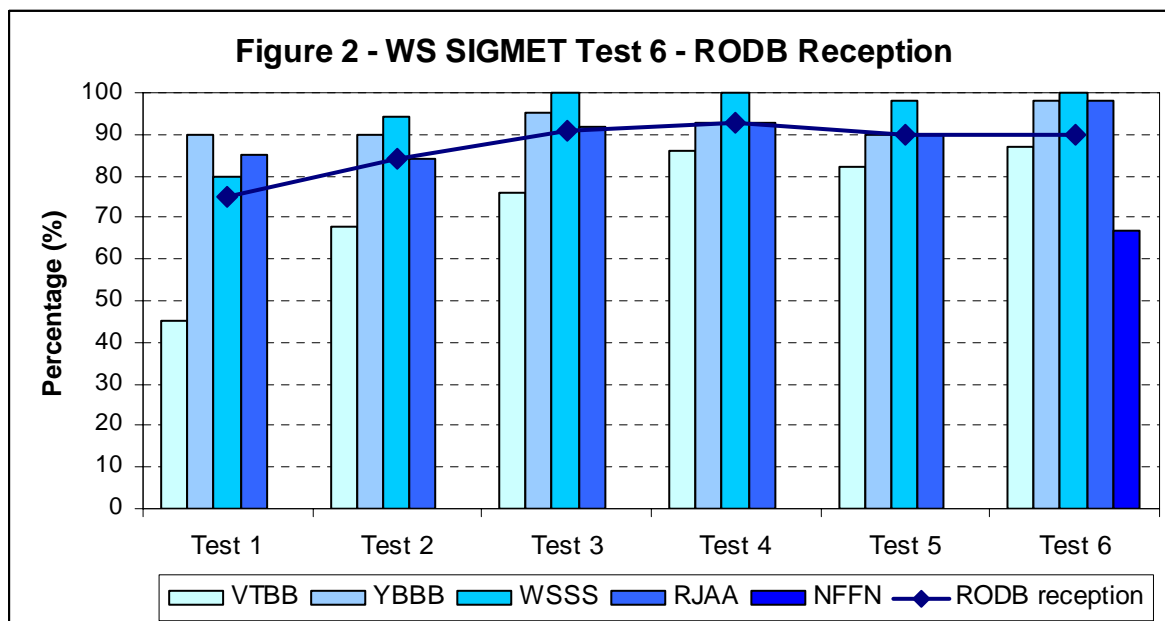
| FIRs not covered by the WS SIGMET test | | |
|--|--|-------------|
| MWO Location | FIR Name | FIR Ident |
| 1. KABAL AD | Kbal FIR & SIR | OAKX |
| 2. MELBOURNE/World Met. Centre | Brisbane FIR (above FL185) | YBBB |
| 3. MELBOURNE/World Met. Centre | Melbourne FIR (above FL185) | YMMM |
| 4. DHAKA/Zia Intl | Dhaka FIR & SRR | VGFR |
| 5. TAHITI/Faaa | Tahiti FIR & SRR | NTTT |
| 6. UJUNG PANDANG/Hasanuddin | UJUNG Pandang FIR/UIR & SRR | WAAZ |
| 7. VIENTIANE/Wattay | Vientiane FIR & SRR | VLVT |
| 8. ULAN BAATAR | Ulaanbaatar FIR & SRR | ZMUB |
| 9. YANGON/Yangon International | Yangon FIR & SRR | VYYY |
| 10. PORT MORESBY on behalf of NAURU (ANYN) | Nauru FIR & SRR | ANAU |
| 11. KATHMANDU | Kathmandu FIR & SRR | VNSM |
| 12. KARACHI/Quaid_E-Azam | Karachi FIR & SRR | OPKR |
| 13. LAHORE/Allama Iqbal Intl | Lahore FIR & SRR | OPLR |
| 14. PORT MORESBY/Intl | Port Moresby FIR & SRR | AYPY |
| 15. INCHEON | Incheon FIR & SRR | RKRR |
| 16. PORT MORESBY on behalf of HONIARA (AGGH) | Honiara FIR & SRR | AGGG |
| 17. COLOMBO/Bandaranaike Intl Airport Colombo | Colombo FIR & SRR | VCBI |

Table 3: FIRs not covered by WS SIGMET Test 6.

5. RODB RECEPTION OF WS SIGMET

5.1 Of the 46 test WS SIGMETs issued, not all reached each RODBs. All five RODBs took part in the test and a total of 207 test WS SIGMETs messages were received out of a possible 230 (90%). Therefore 10% of the SIGMETs issued were not received by RODBs (see Figure 2).

5.2 RODB Bangkok received 40 (87%) of the 46 test WS SIGMETs issued. RODB Brisbane received 45 (98%), RODB Singapore received 46 (100%), RODB Tokyo received 45 (98%) and RODB Nadi received 31 (67%).



5.3 Table 4 outlines the MWO that are required to update their SIGMET dissemination lists to include one or more additional RODBs.

| MWO Location | MWO | FIR | Add RODB |
|---|------|------|------------------|
| MELBOURNE/Melbourne | YMRF | YBBB | VTBB |
| PERTH/Perth | YPRF | YBBB | NFFN |
| CHENGDU/Shuangliu for PHNOM-PENH (VDPP) | ZUUU | VDPP | NFFN |
| BEIJING/Capital | ZBAA | ZBPE | NFFN |
| CHENGDU/Shuangliu | ZUUU | ZPKM | NFFN |
| SHANGHAI/Hongqiao | ZSSS | ZSHA | NFFN |
| URUMQI/Diwopu | ZWWW | ZWUQ | NFFN |
| XI'AN/Xiayang | ZLXY | ZLHW | NFFN |
| SUNAN | ZKKP | ZKKP | NFFN |
| NADI/Nadi Intl | NFFN | NFFF | NFFN |
| KOLKATA | VECC | VECF | VTBB, RJTD, NFFN |
| TOKYO (CITY) | RJTD | RJJJ | NFFN |
| ANCHORAGE/Anchorage Intl | PAWU | PAZA | VTBB, YBBN, NFFN |
| HONOLULU/Honolulu Intl | PHFO | KZAK | VTBB, NFFN |
| KANSAS CITY | KKCI | KZAK | VTBB, NFFN |
| Gia Lam | VVGL | VVTS | VTBB |

Table 4. MWOs required to disseminate SIGMET to additional RODBs.

6. COMPARISON OF WS SIGMET TESTS

6.1 Comparison of the test results for all six WS SIGMET Tests is given in Table 5 and **Appendix 3**.

| | Test 1 | Test 2 | Test 3 |
|--------------------------|------------------|------------------|------------------|
| State participation | 13 of 29 (44%) | 12 of 28 (42%) | 14 of 28 (50%) |
| MWO participation | 34 of 62 (55%) | 30 of 57 (53%) | 32 of 54 (59%) |
| Test SIGMETs issued | 40 of 71 (56%) | 31 of 64 (48%) | 38 of 61 (62%) |
| RODB reception | 120 of 160 (75%) | 104 of 124 (84%) | 138 of 152 (91%) |
| Bangkok RODB reception | 18 of 40 (45%) | 21 of 31 (68%) | 29 of 38 (76%) |
| Brisbane RODB reception | 36 of 40 (90%) | 28 of 31 (90%) | 36 of 38 (95%) |
| Singapore RODB reception | 32 of 40 (80%) | 29 of 31 (94%) | 38 of 38 (100%) |
| Tokyo RODB reception | 34 of 40 (85%) | 26 of 31 (84%) | 35 of 38 (92%) |
| Nadi RODB reception | N/A | N/A | N/A |

| | Test 4 | Test 5 | Test 6 |
|--------------------------|------------------|------------------|------------------|
| State participation | 12 of 29 (41%) | 19 of 27 (70%) | 16 of 29 (55%) |
| MWO participation | 34 of 54 (63%) | 43 of 53 (81%) | 37 of 51 (73%) |
| Test SIGMETs issued | 42 of 63 (67%) | 49 of 61 (80%) | 46 of 63 (73%) |
| RODB reception | 156 of 168 (93%) | 176 of 196 (90%) | 207 of 230 (90%) |
| Bangkok RODB reception | 36 of 42 (86%) | 40 of 49 (82%) | 40 of 46 (87%) |
| Brisbane RODB reception | 39 of 42 (93%) | 44 of 49 (90%) | 45 of 46 (98%) |
| Singapore RODB reception | 42 of 42 (100%) | 48 of 49 (98%) | 46 of 46 (100%) |
| Tokyo RODB reception | 39 of 42 (93%) | 44 of 49 (90%) | 45 of 46 (98%) |
| Nadi RODB reception | N/A | N/A | 31 of 46 (67%) |

Table 5: Comparison of WS SIGMET tests.

7. INCORRECT WS SIGMETs

7.1 **Headers.** Discrepancies in the WMO SIGMET headings are given in Table 6.

| State, MWOs (FIR) | SIGMET guide designator | Received designator |
|---|-------------------------|---------------------|
| Australia, DARWIN/Darwin (Brisbane & Melbourne FIRs) | MWO: YDRM | MWO: YPDM |
| China, BEIJING/Capital (Beijing FIR & SRR) | MWO: ZBAA | MWO: ZBBB |
| India, KOLKATA (Kolkata FIR & SRR) | TTAAii: WSIN31 | TTAAii: WSIN32 |
| Malaysia, SEPANG/KL International Airport (Kota Kinabalu FIR & SRR) | CCCC: WMKK | CCCC: WBKK |
| Maldives, MALE/Intl (Male FIR & SRR) | FIR: VRMF | FIR: VRMM |
| United States, HONOLULU/Honolulu Intl (Oakland Oceanic & Honolulu SRR) | FIR: KZAK | FIR:KZOA |

Table 6: Incorrect WS SIGMET headers during Test 6.

7.2 **Priorities.** The priority of aviation weather messages are indicated by the use of DD, FF and GG, where DD corresponds to the highest priority and is used in critical products like Search and Rescue. The priority for SIGMET should be FF. The results for WS SIGMET Test 6 revealed that incorrect message priorities were used by many MWOs. These are given in Table 6.

| MWO Location | FIR | Priority | MWO Location | FIR | Priority |
|---|------|----------|----------------------------------|------|----------|
| ADELAIDE/Adelaide | YMMM | DD | HAIKOU/Meilan | ZJSA | GG |
| BRISBANE/Brisbane | YBBB | DD | SHANGHAI/Hongqiao | ZSHA | GG |
| BRISBANE/Brisbane | YMMM | DD | SHENYANG/Taoxian | ZYSH | GG |
| CAIRNS/Cairns Intl | YBBB | DD | URUMQI/Diwopu | ZWUQ | GG |
| DARWIN/Darwin | YBBB | DD | WUHAN/Tianhe | ZHWH | GG |
| DARWIN/Darwin | YMMM | DD | XI'AN/Xianyang | ZLHW | GG |
| HOBART/Hobart | YMMM | DD | SUNAN | ZKKP | GG |
| MELBOURNE/Melbourne | YBBB | DD | KOLKATA | VECF | GG |
| MELBOURNE/Melbourne | YMMM | DD | MUMBAI/Chhatrapati Shivaji Intl. | VABF | DD |
| PERTH/Perth | YBBB | DD | JAKARTA/Soekamo-Hatta | WIIZ | GG |
| PERTH/Perth | YMMM | DD | TOKYO (CITY) | RJJJ | GG |
| SYDNEY/Sydney | YBBB | DD | SEPANG/KL International Airport | WBFC | DD |
| SYDNEY/Sydney | YMMM | DD | SEPANG/KL International Airport | WMFC | DD |
| CHENGDU/Shuangliu for PHNOM-PENH (VDPP) | VDPP | GG | MALE/Intl | VRMF | DD |
| BEIJING/Capital | ZBPE | GG | HONOLULU/Honolulu Intl | KZAK | DD |
| CHENGDU/Shuangliu | ZPKM | GG | KANSAS CITY | KZAK | DD |
| GUANGZHOU/Baiyan | ZGZU | GG | | | |

Table 7: Incorrect WS SIGMET message priorities.

7.3 **Sequence Numbers.** A maximum of 3 characters is allowed for the SIGMET sequence numbers. None of the WS SIGMETs issued by Australia were compliant with Annex 3 as they all contained 4 character sequence numbers. Two of the United States WS SIGMETs also had incorrect headings. These are all given in Table 8.

| MWO Location | MWO Ident | Incorrect Sequence No. |
|-----------------------------|-----------|------------------------|
| ADELAIDE/Adelaide | YPRM | AD01 |
| BRISBANE/Brisbane | YBRF | BN01 |
| CAIRNS/Cairns Intl | YBCS | CS01 |
| DARWIN/Darwin | YDRM | DN01 |
| HOBART/Hobart | YMHF | HB01 |
| MELBOURNE/Melbourne | YMRF | ML01, ML02 |
| MELBOURNE/World Met. Centre | YMMC | ?? |
| PERTH/Perth | YPRF | PH01 |
| SYDNEY/Sydney | YSRF | SY01 |
| ANCHORAGE/Anchorage Intl | PAWU | ?? |
| HONOLULU/Honolulu Intl | PHFO | NOVEMBER 1 |
| KANSAS CITY | KKCI | ALFA 1 |

Table 8. Incorrect WS SIGMET sequence numbers.

7.4 **End of Message.** The SIGMET should end with an equals sign (=). None of the SIGMETs issued by **Australia** contained an equals (=) sign at the end of the message. They also contained a status line (STS) which is also not compliant with Annex 3.

7.5 **Duplicates.** Messages with the same text and the same origin were considered as duplicates. These are highlighted in bold in the transmission times in Appendix 1.

8. CONCLUSION

8.1 It was disappointing to see that there was a decrease in State and MWO participation and in the number of SIGMETs issues compared to the previous test.

8.2 It was very pleasing to see that Nadi RODB participated in the collection of data this year.

8.3 The RODB reception of the WS SIGMETs is quite good but could still be improved substantially.

9. ACTION BY THE MEETING

9.1 The meeting is invited to note the results of the WS SIGMET test presented above and discuss future improvement of the WS SIGMET exchange in the region, especially any strategies that could be employed to increase the participation of States.

APPENDIX 1 – Summary of Results from ASIA/PAC WS SIGMET Test 6

| State | Meteorological Watch Office (MWO) | | Area Served | SIGMET Guide | | | Transmitted Header | | | | | | RODB Reception | | | | | |
|-------------------------|---|------|----------------------|--------------|--------|------|--------------------|----------|--------|---------|--------|------|----------------|-------|-------|-------|-------|------|
| | Location | MWO | | Name | TTAAii | CCCC | FIR | Priority | TTAAii | CCCC | YYGGgg | MWO | FIR / UIR | VTBB | YBBN | WSSS | RJTD | NFFN |
| Afghanistan | KABUL AD | OAKB | Kabul FIR and SSR | WSAH31 | OAKB | OAKX | | | | | | | | | | | | |
| Australia | ADELAIDE/Adelaide | YPRM | Melbourne FIR | WSAU21 | APRM | YMMM | DD | WSAU21 | APRM | 240200 | YPRM | YMMM | 02:00 | 02:00 | 02:00 | 02:00 | 02:00 | |
| | BRISBANE/Brisbane | YBRF | Brisbane FIR | WSAU21 | ABRF | YBBB | DD | WSAU21 | ABRF | 2402001 | YBRF | YBBB | 02:01 | 02:01 | 02:01 | 02:02 | 02:01 | |
| | BRISBANE/Brisbane | YBRF | Melbourne FIR | WSAU21 | ABRF | YMMM | DD | WSAU21 | ABRF | 2402003 | YBRF | YMMM | 02:03 | 02:03 | 02:03 | 02:03 | 02:03 | |
| | CAIRNS/Cairns Intl | YBCS | Brisbane FIR | WSAU21 | ABCS | YBBB | DD | WSAU21 | ABCS | 240200 | YBCS | YBBB | 02:00 | 02:00 | 02:00 | 02:00 | 02:00 | |
| | DARWIN/Darwin | YDRM | Brisbane FIR | WSAU21 | ADRM | YBBB | DD | WSAU21 | ADRM | 241056 | YPDM | YBBB | 01:56 | 01:56 | 01:56 | 01:56 | 01:56 | |
| | DARWIN/Darwin | YDRM | Melbourne FIR | WSAU21 | ADRM | YMMM | DD | WSAU21 | ADRM | 241056 | YPDM | YMMM | 01:56 | 01:56 | 01:56 | 01:56 | 01:56 | |
| | HOBART/Hobart | YMHF | Melbourne FIR | WSAU21 | AMHF | YMMM | DD | WSAU21 | AMHF | 240200 | YMHF | YMMM | 02:00 | 02:00 | 02:00 | 02:00 | 02:00 | |
| | MELBOURNE/Melbourne | YMRF | Brisbane FIR | WSAU21 | AMRF | YBBB | DD | WSAU21 | AMRF | 240200 | YMRF | YBBB | | 02:00 | 02:00 | 02:00 | 02:00 | |
| | MELBOURNE/Melbourne | YMRF | Melbourne FIR | WSAU21 | AMRF | YMMM | DD | WSAU21 | AMRF | 240200 | YMRF | YMMM | 02:00 | 02:00 | 02:00 | 02:00 | 02:00 | |
| | MELBOURNE/World Met. Centre | YMMC | Brisbane FIR | WSAU21 | AMMC | YBBB | | | | | | | | | | | | |
| | MELBOURNE/World Met. Centre | YMMC | Melbourne FIR | WSAU21 | AMMC | YMMM | | | | | | | | | | | | |
| | PERTH/Perth | YPRF | Brisbane FIR | WSAU21 | APRF | YBBB | DD | WSAU21 | APRF | 240207 | YPRF | YBBB | 02:07 | 02:07 | 02:07 | 02:08 | | |
| | PERTH/Perth | YPRF | Melbourne FIR | WSAU21 | APRF | YMMM | DD | WSAU21 | APRF | 240208 | YPRF | YMMM | 02:08 | 02:08 | 02:08 | 02:08 | 02:07 | |
| | SYDNEY/Sydney | YSRF | Brisbane FIR | WSAU21 | ASRF | YBBB | DD | WSAU21 | ASRF | 241056 | YSRF | YBBB | 01:56 | 01:56 | 01:56 | 01:56 | 01:56 | |
| | SYDNEY/Sydney | YSRF | Melbourne FIR | WSAU21 | ASRF | YMMM | DD | WSAU21 | ASRF | 241056 | YSRF | YMMM | 01:56 | 01:56 | 01:56 | 01:56 | 01:56 | |
| Bangladesh | DHAKA/Zia Intl | VGZR | Dhaka FIR & SRR | WSBW20 | VGZR | VGFR | | | | | | | | | | | | |
| Cambodia | CHENGDU/Shuangliu for PHNOM-PENH (VDPP) | ZUUU | Phnom-Penh FIR & SRR | WSKP31 | ZUUU | VDPP | GG | WSKP31 | ZUUU | 240200 | ZUUU | VDPP | 02:00 | 02:01 | 02:01 | 02:01 | | |
| China | BEIJING/Capital | ZBAA | Beijing FIR & SRR | WSCI33 | ZBAA | ZBPE | GG | WSCI33 | ZBAA | 240200 | ZBBB | ZBPE | 02:00 | 02:00 | 02:00 | 02:00 | | |
| | CHENGDU/Shuangliu | ZUUU | Kunming FIR & SRR | WSCI36 | ZUUU | ZPKM | GG | WSCI36 | ZUUU | 240200 | ZUUU | ZPKM | 02:01 | 02:01 | 02:01 | 02:01 | | |
| | GUANGZHOU/Baiyan | ZGGG | Guangzhou FIR & SRR | WSCI35 | ZGGG | ZGZU | GG | WSCI35 | ZGGG | 240201 | ZGGG | ZGZU | 02:03 | 02:05 | 02:03 | 02:03 | 02:03 | |
| | HAIKOU/Meilan | ZJHK | Sanya FIR & SRR | WSCI35 | ZJHK | ZJSA | GG | WSCI35 | ZJHK | 240200 | ZJHK | ZJSA | 02:01 | 02:00 | 02:01 | 02:01 | 02:01 | |
| | HONG KONG/Hong Kong Intl | VHHH | Hong Kong FIR & SRR | WSSS20 | VHHH | VHHK | FF | WSSS20 | VHHH | 240202 | VHHH | VHHK | 02:03 | 02:02 | 02:03 | 02:03 | 02:03 | |
| | SHANGHAI/Hongqiao | ZSSS | Shanghai FIR & SRR | WSCI34 | ZSSS | ZSHA | GG | WSCI34 | ZSSS | 240200 | ZSSS | ZSHA | 02:01 | 02:01 | 02:02 | 02:02 | | |
| | SHENYANG/Taoxian | ZYTX | Shenyang FIR & SRR | WSCI38 | ZYTX | ZYSH | GG | WSCI38 | ZYTX | 240200 | ZYTX | ZYSH | 02:00 | 02:00 | 02:00 | 02:00 | 02:02 | |
| | TAIBEI/Taibei Intl | RCTP | Taibei FIR & SRR | WSCI31 | RCTP | RCAA | FF | WSCI31 | RCTP | 240200 | RCTP | RCAA | 02:03 | 02:00 | 02:03 | 02:03 | 02:03 | |
| | URUMQI/Diwopu | ZWWW | Urumqi FIR & SRR | WSCI39 | ZWWW | ZWUQ | GG | WSCI39 | ZWWW | 240200 | ZWWW | ZWUQ | 02:00 | 02:00 | 02:00 | 02:00 | | |
| | WUHAN/Tianhe | ZHHH | Wuhan FIR & SRR | WSCI45 | ZHHH | ZHWH | GG | WSCI45 | ZHHH | 240200 | ZHHH | ZHWH | 01:59 | 02:00 | 01:59 | 01:59 | 01:59 | |
| | XI'AN/Xianyang | ZLXY | Lanzhou FIR and SRR | WSCI37 | ZLXY | ZLHW | GG | WSCI37 | ZLXY | 240200 | ZLXY | ZLHW | 02:02 | 02:04 | 02:02 | 02:02 | | |
| DPR Korea | SUNAN | ZKKP | Pyongyang FIR & SRR | WSKR31 | ZKPY | ZKKP | GG | WSKR31 | ZKPY | 240200 | ZKPY | ZKKP | 02:02 | 02:02 | 02:02 | 02:02 | | |
| Fiji | NADI/Nadi Intl | NFFN | Nadi FIR & SRR | WSFJ01,02.. | NFFN | NFFF | FF | WSFJ01 | NFFN | 240000 | NFFN | NFFF | 02:00 | 01:59 | 02:00 | 02:00 | | |
| French Polynesia | TAHITI/Faaa | NTAA | Tahiti FIR & SRR | WSPF21,22 | NTAA | NTTT | | | | | | | | | | | | |
| India | CHENNAI/Chennai | VOMM | Chennai FIR & SRR | WSIN31 | VOMM | VOMF | FF | WSIN31 | VOMM | 240200 | VOMM | VOMF | 02:08 | 02:00 | 02:01 | 02:01 | 02:00 | |
| | DELHI/Indira Ghandi Intl | VIDP | Delhi FIR & SRR | WSIN31 | VIDP | VIDF | FF | WSIN31 | VIDP | 240200 | VIDP | VIDF | 02:05 | 01:51 | 02:05 | 02:05 | 02:05 | |
| | KOLKATA | VECC | Kolkata FIR & SRR | WSIN31 | VECC | VECF | GG | WSIN32 | VECC | 240200 | VECC | VECF | | 02:01 | 02:01 | | | |
| | MUMBAI/Chhatrapati Shivaji Intl. | VABB | Mumbai FIR & SRR | WSIN31 | VABB | VABF | DD | WSIN31 | VABB | 240200 | VABB | VABF | 02:07 | 02:00 | 02:07 | 02:07 | 02:12 | |

APPENDIX 1 – Summary of Results from ASIA/PAC WS SIGMET Test 6

| State | Meteorological Watch Office (MWO) | | Area Served | SIGMET Guide | | | Transmitted Header | | | | | | RODB Reception | | | | |
|-------------------|--|------|--------------------------------|--------------|------|------|--------------------|--------|------|--------|------|-----------|----------------|-------|-------|-------|-------|
| | Location | MWO | Name | TTAAii | CCCC | FIR | Priority | TTAAii | CCCC | YYGGgg | MWO | FIR / UIR | VTBB | YBBN | WSSS | RJTD | NFFN |
| Indonesia | JAKARTA/Soekamo-Hatta | WIII | Jakarta FIR/UIR & SRR | WSID20 | WIII | WIIZ | GG | WSID20 | WIII | 240200 | WIII | WIIZ | 02:01 | 02:01 | 02:01 | 02:02 | 02:01 |
| | UJUNG PANDANG/Hasanuddin | WAAA | Ujung Pandang FIR/UIR & SRR | WSID21 | WAAA | WAAZ | | | | | | | | | | | |
| Japan | TOKYO (CITY) | RJTD | Fukuoka FIR & Tokyo SRR | WSJP31 | RJTD | RJJJ | GG | WSJP31 | RJTD | 240205 | RJTD | RJJJ | 02:05 | 02:05 | 02:05 | 02:05 | |
| Lao PDR | VIENTIANE/Wattay | VLVT | Vientiane FIR & SRR | WSLA31 | VLVT | VLVT | | | | | | | | | | | |
| Malaysia | SEPANG/KL International Airport | WMKK | Kota Kimabalu FIR & SRR | WSMS31 | WMKK | WBFC | DD | WSMS31 | WBKK | 240200 | WMKK | WBFC | 02:01 | 02:00 | 02:01 | 02:01 | 02:01 |
| | SEPANG/KL International Airport | WMKK | Kuala Lumpur FIR & SRR | WSMS31 | WMKK | WMFC | DD | WSMS31 | WMKK | 240200 | WMKK | WMFC | 02:08 | 02:15 | 02:15 | 02:15 | 02:15 |
| Maldives | MALE/Intl | VRMM | Male FIR & SRR | WSMV31 | VRMM | VRMF | DD | WSMV31 | VRMM | 240200 | VRMM | VRMM | 01:59 | 02:00 | 01:59 | 01:59 | 01:59 |
| Mongolia | ULAN BAATAR | ZMUB | Ulaanbaatar FIR & SRR | WSMO31 | ZMUB | ZMUB | | | | | | | | | | | |
| Myanmar | YANGON/Yangon International | VYYY | Yangon FIR & SRR | WSBM31 | VYYY | VYYY | | | | | | | | | | | |
| Nauru | PORT MORESBY on behalf of NAURU (ANYN) | AYPY | Nauru FIR & SRR | WSNW20 | AYPY | ANAU | | | | | | | | | | | |
| Nepal | KATHMANDU | VNKT | Kathmandu FIR & SRR | WSNP31 | VNKT | VNSM | | | | | | | | | | | |
| New Zealand | WELLINGTON (Aviation Weather Centre) | NZKL | New Zealand FIR & SRR | WSNZ21 | NZKL | NZZC | FF | WSNZ21 | NZKL | 240200 | NZKL | NZZC | 02:00 | 02:00 | 02:00 | 02:01 | 02:00 |
| | WELLINGTON (Aviation Weather Centre) | NZKL | Auckland Oceanic FIR & SRR | WSPS21 | NZKL | NZZO | FF | WSPS21 | NZKL | 240200 | NZKL | NZZO | 02:00 | 02:00 | 02:00 | 02:00 | 02:00 |
| Pakistan | KARACHI/Jinnah Intl | OPKC | Karachi FIR & SRR | WSPK31 | OPKC | OPKR | | | | | | | | | | | |
| | LAHORE/Allama Iqbal Intl | OPLA | Lahore Fir & SRR | WSPK31 | OPLA | OPLR | | | | | | | | | | | |
| Papua New Guinea | PORT MORESBY/Intl | AYPY | Port Moresby FIR & SRR | WSNG20 | AYPY | AYPY | | | | | | | | | | | |
| Phillippines | MANILA/Ninoy Aquino Intl, Pasay City, Metro Manila | RPLL | Manila FIR & SRR | WSPH31 | RPLL | RPHI | FF | WSPH31 | RPLL | 240200 | RPLL | RPHI | 02:00 | 02:00 | 02:00 | 02:00 | 02:00 |
| Republic of Korea | INCHEON | RKSI | Incheon FIR & SRR | WSKO31 | RKSI | RKRR | | | | | | | | | | | |
| Singapore | SINGAPORE/Changi | WSSS | Singapore FIR & SRR | WSSR20 | WSSS | WSJC | FF | WSSR20 | WSSS | 240200 | WSSS | WSJC | 02:01 | 02:01 | 02:01 | 02:01 | 02:01 |
| Solomon Islands | PORT MORESBY on behalf of HONIARA (Henderson - AGGH) | AYPY | Honiara FIR & SRR | WSSO20 | AYPY | AGGG | | | | | | | | | | | |
| Sri Lanka | COLOMBO/Bandaranaike Intl Airport Colombo | VCBI | Colombo FIR & SRR | WSSB31 | VCBI | VCBI | | | | | | | | | | | |
| Thailand | BANGKOK/Suvamabhumi Intl Airport | VTBS | Bangkok FIR & SRR | WSTH31 | VTBS | VTBB | FF | WSTH31 | VTBS | 240200 | VTBS | VTBB | 03:13 | 02:00 | 03:14 | 03:14 | |
| United States | ANCHORAGE/Anchorage Intl | PAWU | Anchorage FIR | WSAK01-09 | PAWU | PAZA | | WSAK01 | PAWU | 240200 | PAWU | PAZA | | | 02:03 | 02:04 | |
| | HONOLULU/Honolulu Intl | PHFO | Oakland Oceanic & Honolulu SRR | WSPA01-13 | PHFO | KZAK | DD | WSPA01 | PHFO | 240211 | PHFO | KZOA | | 02:00 | 02:03 | 02:00 | |
| | KANSAS CITY | KKCI | Oakland Oceanic FIR | WSPN01-13 | KKCI | KZAK | DD | WSPN01 | KKCI | 240200 | KKCI | KZAK | | 01:55 | 01:58 | 01:55 | |
| Vietnam | Gia Lam | VVGL | Hanoi FIR & SRR | WSVS31 | VVGL | VVNB | FF | WSVS31 | VVGL | 240200 | VVGL | VVNB | 02:00 | 01:59 | 02:00 | 02:00 | 02:00 |
| | Gia Lam | VVGL | Ho-Chi-Minh FIR & SRR | WSVS31 | VVGL | VVTS | FF | WSVS31 | VVGL | 240200 | VVGL | VVTS | | 02:00 | 02:00 | 02:00 | 02:00 |

APPENDIX 2 – FIRs not covered by any of the six WS SIGMET Tests (in pink/orange)

