



International Civil Aviation Organization

**FOURTEENTH MEETING OF THE ASIA/PACIFIC
METEOROLOGICAL INFORMATION EXCHANGE WORKING
GROUP
(MET/IE WG/14)**

Bangkok, Thailand, 7 – 9 March 2016

Agenda Item 3: OPMET exchange

**ASIA/PAC INTER-REGIONAL OPMET GATEWAY BACKUP EXERCISE
BETWEEN RODB BANGKOK AND RODB SINGAPORE**

(Presented by Thailand)

SUMMARY

This working paper provides the results of the eleventh real-time Back-up Exercise conducted by RODB Singapore and RODB Bangkok on 11 February 2016.

1. INTRODUCTION

1.1 The OPMET/M TF/3 Meeting in March 2005 established the procedure for dissemination of ASIA/PAC OPMET Data to WAFC London by RODB Bangkok in the event that RODB Singapore experiences technical problems.

1.2 According to ICAO Work Plan activity 5 : IROG Back-up Tests , All RODB should conduct the annual IROG Back-up Tests in JAN/FEB to validate the dissemination proves for notification messages between IROGs and ensure that the procedure for handover and takeover of responsibility are functional.

1.3 The IROG Backup Exercise will be carried out annually. This IROG Backup Exercise is the eleventh and the results of 5 previous exercises are listed as follows;

| Year | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|
| RODB Bangkok Successfully transmitted | 96.2% | 99.11% | 99.82% | 96.69% | 100% |

2. DISCUSSION

2.1 The exercise was conducted between 0200 and 0800 UTC, 11 Feb 16 with the full support from Singapore IROG.

2.2 The test procedure was carried out according to the Appendix D of the AP ROBEX HB12th edition 2004 – Amended 03 Dec 2015.

3. CONCLUSION

3.1 Both IROGs evaluated the monitoring result and the findings are listed as follows:

| Type of Message | Number of bulletins Rx by RODB Singapore | Number of bulletins Rx by RODB Bangkok | Number of bulletins routed to IROG London by Bangkok | Successful Transmission Rate | Number of bulletins not successfully routed by RODB Bangkok | Bulletin Transit time recorded at RODB Bangkok | | |
|-----------------|--|--|--|------------------------------|---|--|-----|---------|
| | | | | | | Max | Min | Average |
| SA bulletins | 491 | 483 | 483 | 98.37% | 8 | 40 | 1 | 1.19 |
| FT bulletins | 76 | 70 | 70 | 92.10% | 6 | 3 | 1 | 1.00 |
| Total | 567 | 553 | 553 | 97.53% | 14 | | | |

Remark: Duplicated bulletins are excluded from both IROGs

3.2 RODB Bangkok received 483 of METAR bulletins and 70 of TAFOR Bulletins during the backup test.

3.3 The missing TAF/METAR that were not received during the test is summarized as follows:

3.3.1 RODB Bangkok did not receive 3 SA-Bulletins – SAIN32 VIDP 110600/110600 RRB and SAIN32 110730. RODB Bangkok received 5 SA-Bulletins after Singapore IROG notified system restored at 0800UTC – SAIN32 VIDP 110600 RRA/110630/110700/110730 RRA/110730 RRB. This was due to the network inefficiency detected between Mumbai-Bangkok AMHS circuit which affected the successful transmission percentage of SA-Bulletin to drop to 98.37%

3.3.2 RODB Bangkok did not receive 6 FT-Bulletins – FTIN31/IN32 VABB 110500/FTIR31/IR32/IR33/IR34 OIII 110500. This was due to our internal system inefficiency which considerably affected the transmission percentage of FT-Bulletin to drop to 92.10%

3.4 In conclusion, , IROG Bangkok received and /relayed 553 out of 567 METAR and TAF bulletins, with average transit time of 1 minute, except three SA bulletins, namely SAID31 WIII 110230 RRA, SAIN31 VABB 110700 and SASD31 OEJD 110200 were transmitted > 5 mins. Successful transmission rate was dropped by 2.5 %, compared with last year's score (2016 : 97.5, 2015 : 100%)

4. ACTION REQUIRED BY THE MEETING

4.1 The meeting is invited to:

- a) Discuss the result of the IROG back up exercise
- b) Review and improve the existing procedure, if required.

Attachment I

Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 11 February 2016
 METAR Bulletins

| | | | | | Recorded by WSSS RODB RX Time UTC (hh:mm) | Recorded by VTBB RODB RX Time UTC (hh:mm) | Recorded by VTBB RODB TX Time UTC (hh:mm) |
|----|--------|------|--------|-----|--|--|--|
| | TAAai | CCCC | YYGGgg | BBB | | | |
| 1 | SAAE31 | VTBB | 110200 | | 02:07 | - | 02:06 |
| 2 | SAAE31 | VTBB | 110200 | CCA | 02:07 | - | 02:07 |
| 3 | SAAE31 | VTBB | 110230 | | 02:35 | - | 02:35 |
| 4 | SAAE31 | VTBB | 110230 | RRA | 03:00 | - | 02:59 |
| 5 | SAAE31 | VTBB | 110300 | | 03:06 | - | 03:06 |
| 6 | SAAE31 | VTBB | 110300 | RRA | 03:07 | - | 03:07 |
| 7 | SAAE31 | VTBB | 110330 | | 03:36 | - | 03:36 |
| 8 | SAAE31 | VTBB | 110400 | | 04:07 | - | 04:06 |
| 9 | SAAE31 | VTBB | 110430 | | 04:35 | - | 04:35 |
| 10 | SAAE31 | VTBB | 110500 | | 05:07 | - | 05:06 |
| 11 | SAAE31 | VTBB | 110530 | | 05:37 | - | 05:37 |
| 12 | SAAE31 | VTBB | 110600 | | 06:06 | - | 06:05 |
| 13 | SAAE31 | VTBB | 110630 | | 06:36 | - | 06:35 |
| 14 | SAAE31 | VTBB | 110700 | | 07:06 | - | 07:06 |
| 15 | SAAE31 | VTBB | 110730 | | 07:35 | - | 07:35 |
| 16 | SAAE32 | VTBB | 110200 | | 02:07 | - | 02:06 |
| 17 | SAAE32 | VTBB | 110230 | | 02:35 | - | 02:35 |
| 18 | SAAE32 | VTBB | 110300 | | 03:07 | - | 03:06 |
| 19 | SAAE32 | VTBB | 110330 | | 03:36 | - | 03:36 |
| 20 | SAAE32 | VTBB | 110400 | | 04:07 | - | 04:07 |
| 21 | SAAE32 | VTBB | 110430 | | 04:36 | - | 04:35 |
| 22 | SAAE32 | VTBB | 110430 | RRA | 04:38 | - | 04:38 |
| 23 | SAAE32 | VTBB | 110430 | CCA | 04:39 | - | 04:39 |
| 24 | SAAE32 | VTBB | 110430 | RRB | 04:40 | - | 04:39 |
| 25 | SAAE32 | VTBB | 110500 | | 05:07 | - | 05:06 |
| 26 | SAAE32 | VTBB | 110530 | | 05:37 | - | 05:37 |
| 27 | SAAE32 | VTBB | 110530 | RRA | 05:41 | - | 05:41 |
| 28 | SAAE32 | VTBB | 110600 | | 06:06 | - | 06:06 |
| 29 | SAAE32 | VTBB | 110630 | | 06:37 | - | 06:36 |
| 30 | SAAE32 | VTBB | 110700 | | 07:06 | - | 07:06 |
| 31 | SAAE32 | VTBB | 110730 | | 07:35 | - | 07:35 |
| 32 | SAAE33 | VTBB | 110200 | | 02:06 | - | 02:06 |
| 33 | SAAE33 | VTBB | 110300 | | 03:06 | - | 03:06 |
| 34 | SAAE33 | VTBB | 110400 | | 04:06 | - | 04:06 |
| 35 | SAAE33 | VTBB | 110500 | | 05:06 | - | 05:06 |
| 36 | SAAE33 | VTBB | 110600 | | 06:05 | - | 06:05 |

| | | | | | | | |
|----|--------|------|--------|-----|-------|-------|-------|
| 37 | SAAE33 | VTBB | 110700 | | 07:06 | - | 07:06 |
| 38 | SAAE34 | VTBB | 110200 | | 02:07 | - | 02:06 |
| 39 | SAAE34 | VTBB | 110230 | | 02:35 | - | 02:35 |
| 40 | SAAE34 | VTBB | 110300 | | 03:07 | - | 03:06 |
| 41 | SAAE34 | VTBB | 110330 | | 03:36 | - | 03:36 |
| 42 | SAAE34 | VTBB | 110330 | RRA | 03:52 | - | 03:52 |
| 43 | SAAE34 | VTBB | 110400 | | 04:07 | - | 04:06 |
| 44 | SAAE34 | VTBB | 110430 | | 04:36 | - | 04:35 |
| 45 | SAAE34 | VTBB | 110500 | | 05:07 | - | 05:06 |
| 46 | SAAE34 | VTBB | 110530 | | 05:37 | - | 05:37 |
| 47 | SAAE34 | VTBB | 110530 | RRA | 05:42 | - | 05:42 |
| 48 | SAAE34 | VTBB | 110600 | | 06:06 | - | 06:06 |
| 49 | SAAE34 | VTBB | 110630 | | 06:37 | - | 06:35 |
| 50 | SAAE34 | VTBB | 110700 | | 07:06 | - | 07:06 |
| 51 | SAAE34 | VTBB | 110730 | | 07:35 | - | 07:35 |
| 52 | SAAU31 | YBBN | 110200 | | 02:09 | 02:10 | 02:10 |
| 53 | SAAU31 | YBBN | 110230 | | 02:39 | 02:40 | 02:41 |
| 54 | SAAU31 | YBBN | 110230 | RRA | 02:49 | 02:50 | 02:50 |
| 55 | SAAU31 | YBBN | 110300 | | 03:09 | 03:10 | 03:11 |
| 56 | SAAU31 | YBBN | 110330 | | 03:39 | 03:40 | 03:40 |
| 57 | SAAU31 | YBBN | 110400 | | 04:10 | 04:10 | 04:11 |
| 58 | SAAU31 | YBBN | 110430 | | 04:40 | 04:40 | 04:42 |
| 59 | SAAU31 | YBBN | 110500 | | 05:10 | 05:10 | 05:11 |
| 60 | SAAU31 | YBBN | 110530 | | 05:40 | 05:40 | 05:40 |
| 61 | SAAU31 | YBBN | 110600 | | 06:09 | 06:10 | 06:12 |
| 62 | SAAU31 | YBBN | 110630 | | 06:40 | 06:40 | 06:41 |
| 63 | SAAU31 | YBBN | 110700 | | 07:09 | 07:10 | 07:10 |
| 64 | SAAU31 | YBBN | 110730 | | 07:40 | 07:40 | 07:41 |
| 65 | SAAU32 | YBBN | 110200 | | 02:09 | 02:10 | 02:10 |
| 66 | SAAU32 | YBBN | 110230 | | 02:40 | 02:40 | 02:41 |
| 67 | SAAU32 | YBBN | 110300 | | 03:09 | 03:10 | 03:11 |
| 68 | SAAU32 | YBBN | 110330 | | 03:40 | 03:40 | 03:40 |
| 69 | SAAU32 | YBBN | 110400 | | 04:10 | 04:10 | 04:11 |
| 70 | SAAU32 | YBBN | 110430 | | 04:39 | 04:40 | 04:41 |
| 71 | SAAU32 | YBBN | 110500 | | 05:10 | 05:10 | 05:11 |
| 72 | SAAU32 | YBBN | 110530 | | 05:40 | 05:40 | 05:41 |
| 73 | SAAU32 | YBBN | 110600 | | 06:10 | 06:10 | 06:12 |
| 74 | SAAU32 | YBBN | 110630 | | 06:40 | 06:40 | 06:41 |
| 75 | SAAU32 | YBBN | 110700 | | 07:10 | 07:10 | 07:11 |
| 76 | SAAU32 | YBBN | 110730 | | 07:39 | 07:40 | 07:41 |
| 77 | SAAU33 | YBBN | 110200 | | 02:09 | 02:10 | 02:11 |
| 78 | SAAU33 | YBBN | 110230 | | 02:40 | 02:40 | 02:41 |
| 79 | SAAU33 | YBBN | 110230 | RRA | 02:49 | 02:50 | 02:50 |
| 80 | SAAU33 | YBBN | 110300 | | 03:09 | 03:10 | 03:11 |

| | | | | | | | |
|-----|--------|------|--------|-----|-------|-------|-------|
| 81 | SAAU33 | YBBN | 110330 | | 03:40 | 03:40 | 03:40 |
| 82 | SAAU33 | YBBN | 110330 | RRA | 03:49 | 03:49 | 03:51 |
| 83 | SAAU33 | YBBN | 110400 | | 04:09 | 04:10 | 04:11 |
| 84 | SAAU33 | YBBN | 110430 | | 04:40 | 04:40 | 04:41 |
| 85 | SAAU33 | YBBN | 110500 | | 05:10 | 05:10 | 05:11 |
| 86 | SAAU33 | YBBN | 110530 | | 05:40 | 05:40 | 05:42 |
| 87 | SAAU33 | YBBN | 110600 | | 06:10 | 06:10 | 06:12 |
| 88 | SAAU33 | YBBN | 110630 | | 06:40 | 06:40 | 06:41 |
| 89 | SAAU33 | YBBN | 110700 | | 07:09 | 07:10 | 07:10 |
| 90 | SAAU33 | YBBN | 110730 | | 07:39 | 07:40 | 07:41 |
| 91 | SAAU34 | YBBN | 110200 | | 02:09 | 02:10 | 02:11 |
| 92 | SAAU34 | YBBN | 110230 | | 02:40 | 02:40 | 02:41 |
| 93 | SAAU34 | YBBN | 110300 | | 03:09 | 03:10 | 03:11 |
| 94 | SAAU34 | YBBN | 110330 | | 03:40 | 03:40 | 03:40 |
| 95 | SAAU34 | YBBN | 110400 | | 04:09 | 04:10 | 04:11 |
| 96 | SAAU34 | YBBN | 110430 | | 04:40 | 04:40 | 04:41 |
| 97 | SAAU34 | YBBN | 110500 | | 05:10 | 05:10 | 05:11 |
| 98 | SAAU34 | YBBN | 110530 | | 05:40 | 05:40 | 05:42 |
| 99 | SAAU34 | YBBN | 110600 | | 06:10 | 06:10 | 06:12 |
| 100 | SAAU34 | YBBN | 110630 | | 06:40 | 06:40 | 06:41 |
| 101 | SAAU34 | YBBN | 110700 | | 07:09 | 07:10 | 07:10 |
| 102 | SAAU34 | YBBN | 110730 | | 07:39 | 07:40 | 07:41 |
| 103 | SAAU35 | YBBN | 110200 | | 02:10 | 02:10 | 02:11 |
| 104 | SAAU35 | YBBN | 110230 | | 02:40 | 02:40 | 02:41 |
| 105 | SAAU35 | YBBN | 110300 | | 03:10 | 03:10 | 03:11 |
| 106 | SAAU35 | YBBN | 110330 | | 03:40 | 03:40 | 03:41 |
| 107 | SAAU35 | YBBN | 110400 | | 04:10 | 04:10 | 04:11 |
| 108 | SAAU35 | YBBN | 110430 | | 04:40 | 04:40 | 04:41 |
| 109 | SAAU35 | YBBN | 110500 | | 05:10 | 05:10 | 05:11 |
| 110 | SAAU35 | YBBN | 110530 | | 05:40 | 05:40 | 05:42 |
| 111 | SAAU35 | YBBN | 110600 | | 06:10 | 06:10 | 06:12 |
| 112 | SAAU35 | YBBN | 110630 | | 06:40 | 06:40 | 06:41 |
| 113 | SAAU35 | YBBN | 110700 | | 07:09 | 07:10 | 07:10 |
| 114 | SAAU35 | YBBN | 110730 | | 07:40 | 07:40 | 07:41 |
| 115 | SABN31 | OBBI | 110200 | | 02:10 | 02:10 | 02:12 |
| 116 | SABN31 | OBBI | 110200 | RRA | 02:10 | 02:10 | 02:12 |
| 117 | SABN31 | OBBI | 110300 | | 03:00 | 03:00 | 03:02 |
| 118 | SABN31 | OBBI | 110400 | | 04:10 | 04:10 | 04:11 |
| 119 | SABN31 | OBBI | 110400 | RRA | 04:10 | 04:10 | 04:11 |
| 120 | SABN31 | OBBI | 110500 | | 05:00 | 05:00 | 05:02 |
| 121 | SABN31 | OBBI | 110600 | | 06:00 | 06:00 | 06:01 |
| 122 | SABN31 | OBBI | 110700 | | 07:10 | 07:10 | 07:11 |
| 123 | SABN31 | OBBI | 110730 | RRA | 07:30 | 07:31 | 07:31 |
| 124 | SABN32 | OBBI | 110200 | | 02:00 | 02:00 | 02:01 |

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|-----|--------|------|--------|-----|-------|-------|-------|
| 125 | SABN32 | OBBI | 110200 | CCA | 02:02 | 02:02 | 02:03 |
| 126 | SABN32 | OBBI | 110300 | | 03:00 | 03:00 | 03:02 |
| 127 | SABN32 | OBBI | 110300 | CCA | 03:07 | 03:06 | 03:08 |
| 128 | SABN32 | OBBI | 110400 | | 04:01 | 04:01 | 04:01 |
| 129 | SABN32 | OBBI | 110400 | CCA | 04:07 | 04:08 | 04:09 |
| 130 | SABN32 | OBBI | 110500 | | 05:01 | 05:01 | 05:03 |
| 131 | SABN32 | OBBI | 110600 | | 06:00 | 06:00 | 06:01 |
| 132 | SABN32 | OBBI | 110700 | | 07:00 | 07:00 | 07:02 |
| 133 | SACI31 | ZBBB | 110200 | | 02:05 | 02:05 | 02:06 |
| 134 | SACI31 | ZBBB | 110230 | | 02:35 | 02:35 | 02:36 |
| 135 | SACI31 | ZBBB | 110300 | | 03:05 | 03:05 | 03:06 |
| 136 | SACI31 | ZBBB | 110330 | | 03:35 | 03:35 | 03:36 |
| 137 | SACI31 | ZBBB | 110400 | | 04:05 | 04:05 | 04:06 |
| 138 | SACI31 | ZBBB | 110430 | | 04:35 | 04:35 | 04:35 |
| 139 | SACI31 | ZBBB | 110500 | | 05:05 | 05:05 | 05:07 |
| 140 | SACI31 | ZBBB | 110530 | | 05:35 | 05:35 | 05:36 |
| 141 | SACI31 | ZBBB | 110600 | | 06:05 | 06:05 | 06:06 |
| 142 | SACI31 | ZBBB | 110630 | | 06:35 | 06:35 | 06:35 |
| 143 | SACI31 | ZBBB | 110700 | | 07:05 | 07:05 | 07:07 |
| 144 | SACI31 | ZBBB | 110730 | | 07:35 | 07:35 | 07:36 |
| 145 | SACI32 | ZBBB | 110200 | | 02:05 | 02:05 | 02:07 |
| 146 | SACI32 | ZBBB | 110300 | | 03:05 | 03:05 | 03:07 |
| 147 | SACI32 | ZBBB | 110300 | CCA | 03:10 | 03:10 | 03:10 |
| 148 | SACI32 | ZBBB | 110400 | | 04:05 | 04:05 | 04:07 |
| 149 | SACI32 | ZBBB | 110500 | | 05:05 | 05:05 | 05:07 |
| 150 | SACI32 | ZBBB | 110600 | | 06:05 | 06:05 | 06:07 |
| 151 | SACI32 | ZBBB | 110700 | | 07:05 | 07:05 | 07:07 |
| 152 | SACI41 | ZBBB | 110200 | | 02:06 | 02:06 | 02:07 |
| 153 | SACI41 | ZBBB | 110300 | | 03:06 | 03:06 | 03:08 |
| 154 | SACI41 | ZBBB | 110400 | | 04:06 | 04:06 | 04:08 |
| 155 | SACI41 | ZBBB | 110500 | | 05:06 | 05:06 | 05:08 |
| 156 | SACI41 | ZBBB | 110600 | | 06:06 | 06:06 | 06:08 |
| 157 | SACI41 | ZBBB | 110700 | | 07:06 | 07:06 | 07:08 |
| 158 | SAHK31 | VHHH | 110200 | | 02:08 | 02:08 | 02:09 |
| 159 | SAHK31 | VHHH | 110230 | | 02:40 | 02:40 | 02:41 |
| 160 | SAHK31 | VHHH | 110230 | RRA | 02:44 | 02:44 | 02:45 |
| 161 | SAHK31 | VHHH | 110300 | | 03:10 | 03:10 | 03:11 |
| 162 | SAHK31 | VHHH | 110300 | RRA | 03:13 | 03:13 | 03:14 |
| 163 | SAHK31 | VHHH | 110300 | RRB | 03:15 | 03:15 | 03:16 |
| 164 | SAHK31 | VHHH | 110330 | | 03:37 | 03:37 | 03:38 |
| 165 | SAHK31 | VHHH | 110400 | | 04:09 | 04:09 | 04:09 |
| 166 | SAHK31 | VHHH | 110430 | | 04:37 | 04:37 | 04:39 |
| 167 | SAHK31 | VHHH | 110500 | | 05:10 | 05:10 | 05:12 |
| 168 | SAHK31 | VHHH | 110500 | RRA | 05:16 | 05:16 | 05:17 |

| | | | | | | | |
|-----|--------|------|--------|-----|-------|-------|-------|
| 169 | SAHK31 | VHHH | 110500 | RRB | 05:17 | 05:17 | 05:18 |
| 170 | SAHK31 | VHHH | 110530 | | 05:38 | 05:38 | 05:39 |
| 171 | SAHK31 | VHHH | 110600 | | 06:10 | 06:10 | 06:12 |
| 172 | SAHK31 | VHHH | 110600 | RRA | 06:26 | 06:26 | 06:27 |
| 173 | SAHK31 | VHHH | 110630 | | 06:38 | 06:37 | 06:37 |
| 174 | SAHK31 | VHHH | 110700 | | 07:10 | 07:10 | 07:12 |
| 175 | SAHK31 | VHHH | 110700 | RRA | 07:20 | 07:20 | 07:21 |
| 176 | SAHK31 | VHHH | 110730 | | 07:37 | 07:37 | 07:38 |
| 177 | SAID31 | WIII | 110200 | | 02:10 | 02:10 | 02:12 |
| 178 | SAID31 | WIII | 110230 | | 02:40 | 02:40 | 02:42 |
| 179 | SAID31 | WIII | 110230 | RRA | 02:43 | 02:43 | 02:49 |
| 180 | SAID31 | WIII | 110300 | | 03:10 | 03:10 | 03:12 |
| 181 | SAID31 | WIII | 110330 | | 03:40 | 03:40 | 03:42 |
| 182 | SAID31 | WIII | 110400 | | 04:10 | 04:10 | 04:11 |
| 183 | SAID31 | WIII | 110430 | | 04:40 | 04:40 | 04:42 |
| 184 | SAID31 | WIII | 110500 | | 05:10 | 05:10 | 05:12 |
| 185 | SAID31 | WIII | 110530 | | 05:40 | 05:40 | 05:42 |
| 186 | SAID31 | WIII | 110600 | | 06:10 | 06:10 | 06:12 |
| 187 | SAID31 | WIII | 110630 | | 06:40 | 06:40 | 06:42 |
| 188 | SAID31 | WIII | 110700 | | 07:10 | 07:10 | 07:12 |
| 189 | SAID31 | WIII | 110730 | | 07:40 | 07:40 | 07:42 |
| 190 | SAID31 | WIII | 110730 | RRA | 07:58 | 07:58 | 07:59 |
| 191 | SAID32 | WIII | 110200 | | 02:10 | 02:10 | 02:12 |
| 192 | SAID32 | WIII | 110230 | | 02:40 | 02:40 | 02:42 |
| 193 | SAID32 | WIII | 110300 | | 03:10 | 03:10 | 03:12 |
| 194 | SAID32 | WIII | 110330 | | 03:40 | 03:40 | 03:42 |
| 195 | SAID32 | WIII | 110400 | | 04:10 | 04:10 | 04:12 |
| 196 | SAID32 | WIII | 110430 | | 04:40 | 04:40 | 04:42 |
| 197 | SAID32 | WIII | 110500 | | 05:10 | 05:10 | 05:12 |
| 198 | SAID32 | WIII | 110530 | | 05:40 | 05:40 | 05:42 |
| 199 | SAID32 | WIII | 110600 | | 06:10 | 06:10 | 06:12 |
| 200 | SAID32 | WIII | 110630 | | 06:40 | 06:42 | 06:43 |
| 201 | SAID32 | WIII | 110700 | | 07:10 | 07:10 | 07:12 |
| 202 | SAID32 | WIII | 110730 | | 07:40 | 07:40 | 07:42 |
| 203 | SAID33 | WIII | 110200 | | 02:10 | 02:10 | 02:12 |
| 204 | SAID33 | WIII | 110230 | | 02:40 | 02:40 | 02:42 |
| 205 | SAID33 | WIII | 110300 | | 03:10 | 03:10 | 03:12 |
| 206 | SAID33 | WIII | 110330 | | 03:40 | 03:40 | 03:42 |
| 207 | SAID33 | WIII | 110400 | | 04:10 | 04:10 | 04:12 |
| 208 | SAID33 | WIII | 110430 | | 04:40 | 04:40 | 04:42 |
| 209 | SAID33 | WIII | 110500 | | 05:10 | 05:10 | 05:12 |
| 210 | SAID33 | WIII | 110530 | | 05:40 | 05:40 | 05:42 |
| 211 | SAID33 | WIII | 110600 | | 06:10 | 06:10 | 06:12 |
| 212 | SAID33 | WIII | 110630 | | 06:40 | 06:40 | 06:42 |

| | | | | | | | |
|-----|--------|------|--------|-----|-------|-------|-------|
| 213 | SAID33 | WIII | 110700 | | 07:10 | 07:10 | 07:12 |
| 214 | SAID33 | WIII | 110730 | | 07:40 | 07:40 | 07:42 |
| 215 | SAIN31 | VABB | 110200 | | 02:04 | 02:04 | 02:04 |
| 216 | SAIN31 | VABB | 110200 | RRA | 02:04 | 02:04 | 02:06 |
| 217 | SAIN31 | VABB | 110200 | RRB | 02:11 | 02:11 | 02:12 |
| 218 | SAIN31 | VABB | 110230 | | 02:34 | 02:34 | 02:35 |
| 219 | SAIN31 | VABB | 110230 | RRA | 02:34 | 02:34 | 02:35 |
| 220 | SAIN31 | VABB | 110230 | RRB | 02:35 | 02:35 | 02:36 |
| 221 | SAIN31 | VABB | 110300 | | 03:04 | 03:04 | 03:05 |
| 222 | SAIN31 | VABB | 110300 | RRA | 03:04 | 03:05 | 03:05 |
| 223 | SAIN31 | VABB | 110300 | RRB | 03:10 | 03:11 | 03:12 |
| 224 | SAIN31 | VABB | 110300 | RRC | 03:11 | 03:11 | 03:12 |
| 225 | SAIN31 | VABB | 110330 | | 03:34 | 03:34 | 03:34 |
| 226 | SAIN31 | VABB | 110330 | RRA | 03:36 | 03:36 | 03:37 |
| 227 | SAIN31 | VABB | 110330 | RRB | 03:39 | 03:39 | 03:39 |
| 228 | SAIN31 | VABB | 110400 | | 04:04 | 04:04 | 04:05 |
| 229 | SAIN31 | VABB | 110400 | RRA | 04:05 | 04:05 | 04:07 |
| 230 | SAIN31 | VABB | 110430 | | 04:34 | 04:34 | 04:35 |
| 231 | SAIN31 | VABB | 110430 | RRA | 04:35 | 04:35 | 04:36 |
| 232 | SAIN31 | VABB | 110430 | RRB | 04:37 | 04:37 | 04:39 |
| 233 | SAIN31 | VABB | 110430 | RRC | 04:39 | 04:39 | 04:41 |
| 234 | SAIN31 | VABB | 110430 | RRD | 04:42 | 04:42 | 04:43 |
| 235 | SAIN31 | VABB | 110500 | | 05:04 | 05:04 | 05:05 |
| 236 | SAIN31 | VABB | 110500 | RRA | 05:04 | 05:04 | 05:05 |
| 237 | SAIN31 | VABB | 110500 | RRB | 05:31 | 05:30 | 05:31 |
| 238 | SAIN31 | VABB | 110530 | | 05:37 | 05:37 | 05:38 |
| 239 | SAIN31 | VABB | 110530 | RRA | 05:37 | 05:37 | 05:39 |
| 240 | SAIN31 | VABB | 110530 | RRB | 05:38 | 05:38 | 05:39 |
| 241 | SAIN31 | VABB | 110530 | RRC | 05:42 | 05:42 | 05:43 |
| 242 | SAIN31 | VABB | 110600 | | 06:04 | 06:04 | 06:05 |
| 243 | SAIN31 | VABB | 110600 | RRA | 06:04 | 06:04 | 06:05 |
| 244 | SAIN31 | VABB | 110600 | RRB | 06:05 | 06:05 | 06:07 |
| 245 | SAIN31 | VABB | 110600 | RRC | 06:05 | 06:06 | 06:07 |
| 246 | SAIN31 | VABB | 110600 | RRD | 06:06 | 06:06 | 06:08 |
| 247 | SAIN31 | VABB | 110600 | RRE | 06:31 | 06:31 | 06:32 |
| 248 | SAIN31 | VABB | 110600 | RRF | 06:31 | 06:31 | 06:32 |
| 249 | SAIN31 | VABB | 110630 | | 06:34 | 06:34 | 06:35 |
| 250 | SAIN31 | VABB | 110630 | RRA | 06:34 | 06:34 | 06:35 |
| 251 | SAIN31 | VABB | 110630 | RRB | 06:35 | 06:35 | 06:35 |
| 252 | SAIN31 | VABB | 110630 | RRC | 06:36 | 06:37 | 06:38 |
| 253 | SAIN31 | VABB | 110630 | RRD | 06:37 | 06:37 | 06:37 |
| 254 | SAIN31 | VABB | 110630 | RRE | 06:43 | 06:43 | 06:45 |
| 255 | SAIN31 | VABB | 110700 | | 07:04 | 07:04 | 07:25 |
| 256 | SAIN31 | VABB | 110700 | RRA | 07:05 | 07:05 | 07:05 |

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|-----|--------|------|--------|-----|-------|-------------|-------|
| 257 | SAIN31 | VABB | 110730 | | 07:38 | 07:39 | 07:39 |
| 258 | SAIN31 | VABB | 110730 | RRA | 07:41 | 07:41 | 07:42 |
| 259 | SAIN32 | VIDP | 110200 | | 02:11 | 02:10 | 02:12 |
| 260 | SAIN32 | VIDP | 110230 | | 02:41 | 02:41 | 02:42 |
| 261 | SAIN32 | VIDP | 110230 | RRA | 03:10 | 03:10 | 03:12 |
| 262 | SAIN32 | VIDP | 110300 | | 03:19 | 03:19 | 03:19 |
| 263 | SAIN32 | VIDP | 110330 | | 03:44 | 03:44 | 03:45 |
| 264 | SAIN32 | VIDP | 110330 | RRA | 03:47 | 03:46 | 03:46 |
| 265 | SAIN32 | VIDP | 110330 | RRB | 03:52 | 03:52 | 03:53 |
| 266 | SAIN32 | VIDP | 110400 | | 04:11 | 04:11 | 04:12 |
| 267 | SAIN32 | VIDP | 110400 | RRA | 04:15 | 04:15 | 04:16 |
| 268 | SAIN32 | VIDP | 110430 | | 04:42 | 04:42 | 04:43 |
| 269 | SAIN32 | VIDP | 110430 | RRA | 04:50 | 04:50 | 04:51 |
| 270 | SAIN32 | VIDP | 110500 | | 05:14 | 05:11 | 05:13 |
| 271 | SAIN32 | VIDP | 110500 | RRA | 05:17 | 05:16 | 05:17 |
| 272 | SAIN32 | VIDP | 110530 | | 05:48 | 06:39 | 06:40 |
| 273 | SAIN32 | VIDP | 110630 | | 06:48 | 08:49 | - |
| 274 | SAIN32 | VIDP | 110600 | | 06:15 | not receive | - |
| 275 | SAIN32 | VIDP | 110600 | RRA | 06:21 | 08:06 | - |
| 276 | SAIN32 | VIDP | 110600 | RRB | 06:27 | not receive | - |
| 277 | SAIN32 | VIDP | 110700 | | 07:15 | 08:54 | - |
| 278 | SAIN32 | VIDP | 110730 | | 07:48 | not receive | - |
| 279 | SAIN32 | VIDP | 110730 | RRA | 07:51 | 08:59 | - |
| 280 | SAIN32 | VIDP | 110730 | RRB | 07:57 | 08:59 | - |
| 281 | SAIN33 | VECC | 110200 | | 02:06 | 02:06 | 02:08 |
| 282 | SAIN33 | VECC | 110200 | RRA | 02:25 | 02:25 | 02:26 |
| 283 | SAIN33 | VECC | 110230 | | 02:35 | 02:35 | 02:36 |
| 284 | SAIN33 | VECC | 110230 | RRA | 02:45 | 02:45 | 02:45 |
| 285 | SAIN33 | VECC | 110300 | | 03:05 | 03:05 | 03:08 |
| 286 | SAIN33 | VECC | 110330 | | 03:36 | 03:36 | 03:37 |
| 287 | SAIN33 | VECC | 110330 | RRA | 03:55 | 03:55 | 03:56 |
| 288 | SAIN33 | VECC | 110400 | | 04:05 | 04:05 | 04:07 |
| 289 | SAIN33 | VECC | 110400 | RRA | 04:15 | 04:15 | 04:16 |
| 290 | SAIN33 | VECC | 110430 | | 04:35 | 04:35 | 04:36 |
| 291 | SAIN33 | VECC | 110430 | RRA | 04:45 | 04:45 | 04:46 |
| 292 | SAIN33 | VECC | 110500 | | 05:05 | 05:05 | 05:07 |
| 293 | SAIN33 | VECC | 110500 | RRA | 05:15 | 05:15 | 05:16 |
| 294 | SAIN33 | VECC | 110500 | RRB | 05:25 | 05:25 | 05:26 |
| 295 | SAIN33 | VECC | 110530 | | 05:35 | 05:35 | 05:36 |
| 296 | SAIN33 | VECC | 110530 | RRA | 05:58 | 05:59 | 05:59 |
| 297 | SAIN33 | VECC | 110600 | | 06:05 | 06:06 | 06:07 |
| 298 | SAIN33 | VECC | 110600 | RRA | 06:15 | 06:15 | 06:16 |
| 299 | SAIN33 | VECC | 110630 | | 06:35 | 06:35 | 06:36 |
| 300 | SAIN33 | VECC | 110630 | RRA | 06:45 | 06:45 | 06:46 |

| | | | | | | | |
|-----|--------|------|--------|-----|-------|-------|-------|
| 301 | SAIN33 | VECC | 110700 | | 07:05 | 07:06 | 07:08 |
| 302 | SAIN33 | VECC | 110730 | | 07:35 | 07:35 | 07:36 |
| 303 | SAIN33 | VECC | 110730 | RRA | 07:45 | 07:45 | 07:45 |
| 304 | SAIR31 | OIII | 110200 | | 02:05 | 02:05 | 02:06 |
| 305 | SAIR31 | OIII | 110230 | | 02:37 | 02:37 | 02:37 |
| 306 | SAIR31 | OIII | 110230 | RRA | 02:42 | 02:42 | 02:42 |
| 307 | SAIR31 | OIII | 110300 | | 03:05 | 03:05 | 03:05 |
| 308 | SAIR31 | OIII | 110330 | | 03:37 | 03:37 | 03:38 |
| 309 | SAIR31 | OIII | 110400 | | 04:05 | 04:05 | 04:06 |
| 310 | SAIR31 | OIII | 110430 | | 04:37 | 04:37 | 04:37 |
| 311 | SAIR31 | OIII | 110500 | | 05:05 | 05:05 | 05:07 |
| 312 | SAIR31 | OIII | 110500 | RRA | 05:23 | 05:23 | 05:24 |
| 313 | SAIR31 | OIII | 110530 | RRA | 06:26 | 06:26 | 06:27 |
| 314 | SAIR31 | OIII | 110530 | CCA | 06:34 | 06:34 | 06:34 |
| 315 | SAIR31 | OIII | 110600 | | 06:05 | 06:05 | 06:06 |
| 316 | SAIR31 | OIII | 110600 | RRA | 06:26 | 06:26 | 06:27 |
| 317 | SAIR31 | OIII | 110630 | | 06:37 | 06:37 | 06:38 |
| 318 | SAIR31 | OIII | 110630 | RRA | 06:41 | 06:41 | 06:42 |
| 319 | SAIR31 | OIII | 110700 | | 07:05 | 07:05 | 07:07 |
| 320 | SAIR31 | OIII | 110730 | | 07:37 | 07:37 | 07:37 |
| 321 | SAIR31 | OIII | 110530 | | 05:37 | 05:37 | 05:38 |
| 322 | SAJP31 | RJTD | 110200 | | 02:06 | 02:06 | 02:08 |
| 323 | SAJP31 | RJTD | 110300 | | 03:07 | 03:06 | 03:09 |
| 324 | SAJP31 | RJTD | 110400 | | 04:06 | 04:07 | 04:08 |
| 325 | SAJP31 | RJTD | 110500 | | 05:07 | 05:06 | 05:08 |
| 326 | SAJP31 | RJTD | 110600 | | 06:06 | 06:06 | 06:09 |
| 327 | SAJP31 | RJTD | 110700 | | 07:06 | 07:06 | 07:08 |
| 328 | SAJP32 | RJTD | 110200 | | 02:06 | 02:07 | 02:08 |
| 329 | SAJP32 | RJTD | 110200 | RRA | 02:06 | 02:07 | 02:08 |
| 330 | SAJP32 | RJTD | 110300 | | 03:07 | 03:06 | 03:09 |
| 331 | SAJP32 | RJTD | 110300 | RRA | 03:07 | 03:06 | 03:09 |
| 332 | SAJP32 | RJTD | 110400 | | 04:06 | 04:07 | 04:08 |
| 333 | SAJP32 | RJTD | 110400 | RRA | 04:06 | 04:07 | 04:08 |
| 334 | SAJP32 | RJTD | 110500 | | 05:07 | 05:06 | 05:09 |
| 335 | SAJP32 | RJTD | 110500 | RRA | 05:07 | 05:06 | 05:09 |
| 336 | SAJP32 | RJTD | 110600 | | 06:06 | 06:06 | 06:10 |
| 337 | SAJP32 | RJTD | 110600 | RRA | 06:07 | 06:06 | 06:10 |
| 338 | SAJP32 | RJTD | 110700 | | 07:06 | 07:06 | 07:08 |
| 339 | SAJP32 | RJTD | 110700 | RRA | 07:06 | 07:06 | 07:08 |
| 340 | SAJP38 | RJTD | 110200 | | 02:07 | 02:07 | 02:08 |
| 341 | SAJP38 | RJTD | 110200 | RRA | 02:07 | 02:07 | 02:08 |
| 342 | SAJP38 | RJTD | 110300 | | 03:07 | 03:06 | 03:09 |
| 343 | SAJP38 | RJTD | 110300 | RRA | 03:07 | 03:06 | 03:09 |
| 344 | SAJP38 | RJTD | 110400 | | 04:06 | 04:07 | 04:08 |

| | | | | | | | |
|-----|--------|------|--------|-----|-------|-------|-------|
| 345 | SAJP38 | RJTD | 110400 | RRA | 04:06 | 04:07 | 04:08 |
| 346 | SAJP38 | RJTD | 110500 | | 05:07 | 05:06 | 05:09 |
| 347 | SAJP38 | RJTD | 110500 | RRA | 05:07 | 05:06 | 05:09 |
| 348 | SAJP38 | RJTD | 110600 | | 06:07 | 06:06 | 06:10 |
| 349 | SAJP38 | RJTD | 110600 | RRA | 06:07 | 06:06 | 06:10 |
| 350 | SAJP38 | RJTD | 110700 | | 07:06 | 07:06 | 07:09 |
| 351 | SAJP38 | RJTD | 110700 | RRA | 07:07 | 07:06 | 07:09 |
| 352 | SAKO31 | RKSI | 110200 | | 02:04 | 02:04 | 02:06 |
| 353 | SAKO31 | RKSI | 110230 | | 02:34 | 02:34 | 02:35 |
| 354 | SAKO31 | RKSI | 110300 | | 03:04 | 03:04 | 03:05 |
| 355 | SAKO31 | RKSI | 110330 | | 03:34 | 03:34 | 03:36 |
| 356 | SAKO31 | RKSI | 110400 | | 04:04 | 04:04 | 04:06 |
| 357 | SAKO31 | RKSI | 110430 | | 04:34 | 04:34 | 04:35 |
| 358 | SAKO31 | RKSI | 110500 | | 05:04 | 05:04 | 05:06 |
| 359 | SAKO31 | RKSI | 110530 | | 05:34 | 05:34 | 05:34 |
| 360 | SAKO31 | RKSI | 110600 | | 06:04 | 06:04 | 06:05 |
| 361 | SAKO31 | RKSI | 110630 | | 06:34 | 06:34 | 06:35 |
| 362 | SAKO31 | RKSI | 110700 | | 07:04 | 07:04 | 07:05 |
| 363 | SAKO31 | RKSI | 110730 | | 07:34 | 07:34 | 07:35 |
| 364 | SAMS31 | WMKK | 110200 | | 02:08 | 02:07 | 02:08 |
| 365 | SAMS31 | WMKK | 110230 | | 02:37 | 02:37 | 02:38 |
| 366 | SAMS31 | WMKK | 110230 | CCA | 03:05 | 03:05 | 03:08 |
| 367 | SAMS31 | WMKK | 110300 | | 03:08 | 03:07 | 03:09 |
| 368 | SAMS31 | WMKK | 110300 | RRA | 03:09 | 03:09 | 03:10 |
| 369 | SAMS31 | WMKK | 110330 | | 03:37 | 03:37 | 03:38 |
| 370 | SAMS31 | WMKK | 110400 | | 04:08 | 04:07 | 04:08 |
| 371 | SAMS31 | WMKK | 110430 | | 04:37 | 04:37 | 04:39 |
| 372 | SAMS31 | WMKK | 110500 | | 05:08 | 05:07 | 05:09 |
| 373 | SAMS31 | WMKK | 110500 | RRA | 05:11 | 05:11 | 05:13 |
| 374 | SAMS31 | WMKK | 110530 | | 05:37 | 05:37 | 05:39 |
| 375 | SAMS31 | WMKK | 110600 | | 06:08 | 06:07 | 06:10 |
| 376 | SAMS31 | WMKK | 110630 | | 06:37 | 06:37 | 06:39 |
| 377 | SAMS31 | WMKK | 110700 | | 07:08 | 07:07 | 07:09 |
| 378 | SAMS31 | WMKK | 110730 | | 07:37 | 07:37 | 07:38 |
| 379 | SAMS31 | WMKK | 110730 | RRA | 07:41 | 07:41 | 07:43 |
| 380 | SAMS38 | WMKK | 110200 | | 02:08 | 02:07 | 02:09 |
| 381 | SAMS38 | WMKK | 110300 | | 03:08 | 03:07 | 03:10 |
| 382 | SAMS38 | WMKK | 110400 | | 04:08 | 04:07 | 04:10 |
| 383 | SAMS38 | WMKK | 110500 | | 05:08 | 05:07 | 05:09 |
| 384 | SAMS38 | WMKK | 110600 | | 06:08 | 06:07 | 06:11 |
| 385 | SAMS38 | WMKK | 110600 | RRA | 06:09 | 06:09 | 06:11 |
| 386 | SAMS38 | WMKK | 110700 | | 07:09 | 07:07 | 07:09 |
| 387 | SANG31 | YBBN | 110200 | | 02:10 | 02:10 | 02:11 |
| 388 | SANG31 | YBBN | 110300 | | 03:09 | 03:09 | 03:12 |

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|-----|--------|------|--------|-----|-------|-------|-------|
| 389 | SANG31 | YBBN | 110300 | RRA | 03:19 | 03:20 | 03:20 |
| 390 | SANG31 | YBBN | 110400 | | 04:10 | 04:10 | 04:11 |
| 391 | SANG31 | YBBN | 110500 | | 05:10 | 05:10 | 05:12 |
| 392 | SANG31 | YBBN | 110600 | | 06:10 | 06:10 | 06:12 |
| 393 | SANG31 | YBBN | 110600 | RRA | 06:19 | 06:20 | 06:20 |
| 394 | SANG31 | YBBN | 110700 | | 07:10 | 07:10 | 07:12 |
| 395 | SANZ31 | NZKL | 110200 | | 02:07 | 02:07 | 02:08 |
| 396 | SANZ31 | NZKL | 110230 | | 02:37 | 02:37 | 02:38 |
| 397 | SANZ31 | NZKL | 110300 | | 03:07 | 03:07 | 03:09 |
| 398 | SANZ31 | NZKL | 110330 | | 03:37 | 03:37 | 03:38 |
| 399 | SANZ31 | NZKL | 110400 | | 04:07 | 04:07 | 04:09 |
| 400 | SANZ31 | NZKL | 110430 | | 04:37 | 04:37 | 04:37 |
| 401 | SANZ31 | NZKL | 110500 | | 05:07 | 05:07 | 05:09 |
| 402 | SANZ31 | NZKL | 110530 | | 05:37 | 05:37 | 05:39 |
| 403 | SANZ31 | NZKL | 110600 | | 06:07 | 06:07 | 06:10 |
| 404 | SANZ31 | NZKL | 110630 | | 06:37 | 06:37 | 06:39 |
| 405 | SANZ31 | NZKL | 110700 | | 07:07 | 07:07 | 07:09 |
| 406 | SANZ31 | NZKL | 110730 | | 07:37 | 07:37 | 07:37 |
| 407 | SAPK31 | OPKC | 110200 | | 02:26 | 02:27 | 02:27 |
| 408 | SAPK31 | OPKC | 110230 | | 02:29 | 02:29 | 02:29 |
| 409 | SAPK31 | OPKC | 110300 | | 02:59 | 02:59 | 02:59 |
| 410 | SAPK31 | OPKC | 110330 | | 03:29 | 03:29 | 03:30 |
| 411 | SAPK31 | OPKC | 110330 | RRA | 03:34 | 03:34 | 03:36 |
| 412 | SAPK31 | OPKC | 110400 | | 03:59 | 03:59 | 04:00 |
| 413 | SAPK31 | OPKC | 110400 | RRA | 04:00 | 04:00 | 04:01 |
| 414 | SAPK31 | OPKC | 110430 | | 04:29 | 04:29 | 04:29 |
| 415 | SAPK31 | OPKC | 110500 | | 04:59 | 04:59 | 04:59 |
| 416 | SAPK31 | OPKC | 110500 | RRA | 05:00 | 05:00 | 05:01 |
| 417 | SAPK31 | OPKC | 110530 | | 05:29 | 05:29 | 05:30 |
| 418 | SAPK31 | OPKC | 110530 | RRA | 05:33 | 05:33 | 05:34 |
| 419 | SAPK31 | OPKC | 110600 | | 05:59 | 05:59 | 06:00 |
| 420 | SAPK31 | OPKC | 110600 | RRA | 06:00 | 06:01 | 06:01 |
| 421 | SAPK31 | OPKC | 110600 | RRB | 06:02 | 06:02 | 06:02 |
| 422 | SAPK31 | OPKC | 110630 | | 06:29 | 06:29 | 06:29 |
| 423 | SAPK31 | OPKC | 110700 | | 06:59 | 06:59 | 07:00 |
| 424 | SAPK31 | OPKC | 110700 | RRA | 07:01 | 07:01 | 07:03 |
| 425 | SAPK31 | OPKC | 110730 | | 07:29 | 07:29 | 07:30 |
| 426 | SAPK31 | OPKC | 110730 | RRA | 07:31 | 07:31 | 07:32 |
| 427 | SAPK31 | OPKC | 110800 | | 07:59 | 07:59 | 08:00 |
| 428 | SAPK31 | OPKC | 110800 | RRA | 08:00 | 08:00 | 08:03 |
| 429 | SAPS31 | NFFN | 110200 | | 02:15 | 02:15 | 02:15 |
| 430 | SAPS31 | NFFN | 110300 | | 03:15 | 03:12 | 03:16 |
| 431 | SAPS31 | NFFN | 110400 | | 04:15 | 04:15 | 04:15 |
| 432 | SAPS31 | NFFN | 110500 | | 05:15 | 05:15 | 05:16 |

| | | | | | | | |
|-----|--------|------|--------|-----|-------|-------|-------|
| 433 | SAPS31 | NFFN | 110600 | | 06:15 | 06:15 | 06:15 |
| 434 | SAPS31 | NFFN | 110700 | | 07:15 | 07:15 | 07:16 |
| 435 | SAPS32 | NFFN | 110200 | | 02:15 | 02:15 | 02:15 |
| 436 | SAPS32 | NFFN | 110300 | | 03:15 | 03:15 | 03:16 |
| 437 | SAPS32 | NFFN | 110400 | | 04:15 | 04:15 | 04:15 |
| 438 | SAPS32 | NFFN | 110500 | | 05:15 | 05:15 | 05:16 |
| 439 | SAPS32 | NFFN | 110600 | | 06:15 | 06:15 | 06:15 |
| 440 | SAPS32 | NFFN | 110700 | | 07:15 | 07:15 | 07:15 |
| 441 | SASB31 | VCCC | 110210 | | 02:21 | 02:21 | 02:21 |
| 442 | SASB31 | VECC | 110310 | | 03:20 | 03:20 | 03:21 |
| 443 | SASB31 | VCCC | 110410 | | 04:20 | 04:20 | 04:21 |
| 444 | SASB31 | VCCC | 110510 | | 05:20 | 05:20 | 05:22 |
| 445 | SASB31 | VCCC | 110610 | | 06:21 | 06:21 | 06:21 |
| 446 | SASB31 | VCCC | 110710 | | 07:20 | 07:20 | 07:21 |
| 447 | SASD31 | OEJD | 110200 | | 02:00 | 02:00 | 02:40 |
| 448 | SASD31 | OEJD | 110200 | RRA | 02:05 | 02:05 | 02:07 |
| 449 | SASD31 | OEJD | 110200 | RRB | 02:10 | 02:10 | 02:12 |
| 450 | SASD31 | OEJD | 110300 | | 03:00 | 03:00 | 03:02 |
| 451 | SASD31 | OEJD | 110400 | | 04:00 | 04:00 | 04:02 |
| 452 | SASD31 | OEJD | 110400 | RRA | 04:10 | 04:10 | 04:11 |
| 453 | SASD31 | OEJD | 110500 | | 05:00 | 05:00 | 05:02 |
| 454 | SASD31 | OEJD | 110600 | | 06:00 | 06:00 | 06:04 |
| 455 | SASD31 | OEJD | 110700 | | 07:00 | 07:00 | 07:03 |
| 456 | SASD31 | OEJD | 110700 | RRA | 07:05 | 07:05 | 07:07 |
| 457 | SATH31 | VTBB | 110200 | | 02:06 | - | 02:06 |
| 458 | SATH31 | VTBB | 110200 | RRA | 02:11 | - | 02:11 |
| 459 | SATH31 | VTBB | 110300 | | 03:06 | - | 03:06 |
| 460 | SATH31 | VTBB | 110400 | | 04:06 | - | 04:06 |
| 461 | SATH31 | VTBB | 110400 | RRA | 04:10 | - | 04:10 |
| 462 | SATH31 | VTBB | 110500 | | 05:06 | - | 05:06 |
| 463 | SATH31 | VTBB | 110500 | RRA | 05:07 | - | 05:07 |
| 464 | SATH31 | VTBB | 110600 | | 06:05 | - | 06:05 |
| 465 | SATH31 | VTBB | 110600 | RRA | 06:07 | - | 06:06 |
| 466 | SATH31 | VTBB | 110600 | RRB | 06:11 | - | 06:11 |
| 467 | SATH31 | VTBB | 110700 | | 07:06 | - | 07:06 |
| 468 | SATH31 | VTBB | 110700 | RRA | 07:08 | - | 07:08 |
| 469 | SATH31 | VTBB | 110700 | RRB | 07:12 | - | 07:12 |
| 470 | SATH32 | VTBB | 110200 | | 02:06 | - | 02:06 |
| 471 | SATH32 | VTBB | 110200 | RRA | 02:11 | - | 02:11 |
| 472 | SATH32 | VTBB | 110300 | | 03:06 | - | 03:05 |
| 473 | SATH32 | VTBB | 110300 | RRA | 03:29 | - | 03:29 |
| 474 | SATH32 | VTBB | 110400 | | 04:06 | - | 04:06 |
| 475 | SATH32 | VTBB | 110400 | RRA | 04:21 | - | 04:21 |
| 476 | SATH32 | VTBB | 110500 | | 05:06 | - | 05:06 |

| | | | | | | | |
|-----|--------|------|--------|-----|-------|---|-------|
| 477 | SATH32 | VTBB | 110500 | RRA | 05:13 | - | 05:13 |
| 478 | SATH32 | VTBB | 110600 | | 06:05 | - | 06:05 |
| 479 | SATH32 | VTBB | 110700 | | 07:06 | - | 07:06 |
| 480 | SATH32 | VTBB | 110700 | RRA | 07:08 | - | 07:08 |
| 481 | SATH33 | VTBB | 110200 | | 02:06 | - | 02:06 |
| 482 | SATH33 | VTBB | 110300 | | 03:06 | - | 03:06 |
| 483 | SATH33 | VTBB | 110300 | RRA | 03:25 | - | 03:25 |
| 484 | SATH33 | VTBB | 110400 | | 04:07 | - | 04:06 |
| 485 | SATH33 | VTBB | 110400 | RRA | 04:08 | - | 04:08 |
| 486 | SATH33 | VTBB | 110500 | | 05:06 | - | 05:06 |
| 487 | SATH33 | VTBB | 110600 | | 06:06 | - | 06:05 |
| 488 | SATH33 | VTBB | 110600 | RRA | 06:24 | - | 06:24 |
| 489 | SATH33 | VTBB | 110700 | | 07:06 | - | 07:06 |
| 490 | SATH33 | VTBB | 110700 | RRA | 07:13 | - | 07:13 |
| 491 | SATH33 | VTBB | 110700 | RRB | 07:27 | - | 07:27 |

Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 11 February 2016

| | | | | TAFOR Bulletins | | | |
|----|--------|------|--------|-----------------|-------------|-------------|-------|
| | | | | Recorded by | Recorded by | Recorded by | |
| | | | | WSSS | VTBB | VTBB | |
| | | | | RODB | RODB | RODB | |
| | | | | RX Time | RX Time | TX Time | |
| | | | | UTC | UTC | UTC | |
| | | | | (hh:mm) | (hh:mm) | (hh:mm) | |
| | TTAAii | CCCC | YYGGgg | BBB | | | |
| 1 | FTAE31 | VTBB | 110500 | | 05:37 | - | 05:36 |
| 2 | FTAE32 | VTBB | 110500 | | 05:37 | - | 05:37 |
| 3 | FTAE33 | VTBB | 110500 | | 05:37 | - | 05:36 |
| 4 | FTAE34 | VTBB | 110500 | | 05:37 | - | 05:37 |
| 5 | FTAU31 | YBBN | 110500 | | 05:34 | 05:35 | 05:36 |
| 6 | FTAU31 | YBBN | 110300 | AAB | 03:20 | 03:21 | 03:22 |
| 7 | FTAU31 | YBBN | 110500 | AAC | 05:18 | 05:19 | 05:19 |
| 8 | FTAU32 | YBBN | 110500 | | 05:34 | 05:35 | 05:36 |
| 9 | FTAU32 | YBBN | 110500 | AAE | 05:05 | 05:05 | 05:06 |
| 10 | FTAU32 | YBBN | 110500 | RRA | 05:34 | 05:35 | 05:36 |
| 11 | FTAU32 | YBBN | 110600 | RRA | 06:14 | 06:15 | 06:15 |
| 12 | FTAU32 | YBBN | 110600 | AAA | 06:59 | 06:59 | 07:00 |
| 13 | FTAU32 | YBBN | 110700 | AAB | 07:57 | 07:57 | 07:58 |
| 14 | FTAU33 | YBBN | 110500 | | 05:34 | 05:35 | 05:36 |
| 15 | FTAU33 | YBBN | 110500 | AAE | 05:03 | 05:03 | 05:04 |
| 16 | FTAU33 | YBBN | 110500 | AAF | 05:18 | 05:18 | 05:18 |
| 17 | FTAU33 | YBBN | 110500 | RRA | 05:44 | 05:45 | 05:45 |
| 18 | FTAU33 | YBBN | 110300 | AAD | 03:41 | 03:41 | 03:41 |
| 19 | FTAU34 | YBBN | 110500 | | 05:00 | 05:00 | 05:01 |
| 20 | FTAU35 | YBBN | 110700 | | 07:00 | 07:00 | 07:01 |
| 21 | FTAU35 | YBBN | 110700 | AAA | 07:06 | 07:06 | 07:08 |
| 22 | FTBN31 | OBBI | 110500 | | 05:10 | 05:10 | 05:11 |
| 23 | FTBN32 | OBBI | 110500 | | 05:08 | 05:08 | 05:10 |
| 24 | FTCI31 | ZBBB | 110400 | | 04:00 | 04:00 | 04:01 |
| 25 | FTCI32 | ZBBB | 110400 | | 04:00 | 04:00 | 04:01 |
| 26 | FTCI32 | ZBBB | 110448 | RRA | 04:48 | 04:48 | 04:49 |
| 27 | FTCI41 | ZBBB | 110400 | | 04:01 | 03:06 | 03:08 |
| 28 | FTCI41 | ZBBB | 110306 | | 03:06 | 03:06 | 03:08 |
| 29 | FTHK31 | VHHH | 110500 | | 05:20 | 05:20 | 05:21 |
| 30 | FTHK31 | VHHH | 110500 | RRA | 05:20 | 05:20 | 05:21 |
| 31 | FTHK31 | VHHH | 110500 | CCA | 05:50 | 05:50 | 05:51 |
| 32 | FTHK31 | VHHH | 110500 | AAA | 06:58 | 06:58 | 07:00 |
| 33 | FTHK31 | VHHH | 110500 | AAB | 07:15 | 07:15 | 07:16 |
| 34 | FTHK31 | VHHH | 102300 | AAA | 03:33 | 03:33 | 03:34 |
| 35 | FTHK31 | VHHH | 102300 | AAB | 05:01 | 05:00 | 05:01 |

| | | | | | | | |
|----|--------|------|--------|-----|-------|-------------|-------|
| 36 | FTIN31 | VABB | 110500 | | 05:42 | Not receive | - |
| 37 | FTIN31 | VABB | 110500 | RRA | 05:34 | 05:34 | 05:36 |
| 38 | FTIN31 | VABB | 110500 | RRB | 05:35 | 05:35 | 05:36 |
| 39 | FTIN32 | VABB | 110500 | | 05:42 | Not receive | - |
| 40 | FTIN32 | VABB | 110500 | RRA | 05:36 | 05:36 | 05:37 |
| 41 | FTIN32 | VABB | 110500 | RRB | 05:37 | 05:36 | 05:37 |
| 42 | FTIR31 | OIII | 110500 | | 06:18 | Not receive | - |
| 43 | FTIR31 | OIII | 110500 | RRA | 06:18 | 06:19 | 06:19 |
| 44 | FTIR32 | OIII | 110500 | | 06:18 | Not receive | - |
| 45 | FTIR32 | OIII | 110500 | RRB | 06:18 | 06:19 | 06:20 |
| 46 | FTIR33 | OIII | 110500 | | 06:18 | Not receive | - |
| 47 | FTIR33 | OIII | 110500 | RRA | 06:19 | 06:19 | 06:20 |
| 48 | FTIR34 | OIII | 110500 | | 06:24 | not receive | - |
| 49 | FTIR34 | OIII | 110500 | RRA | 06:19 | 06:19 | 06:20 |
| 50 | FTJP31 | RJTD | 110500 | | 05:28 | 05:27 | 05:29 |
| 51 | FTJP32 | RJTD | 110500 | | 05:28 | 05:27 | 05:29 |
| 52 | FTJP32 | RJTD | 110500 | RRA | 05:28 | 05:27 | 05:29 |
| 53 | FTJP32 | RJTD | 110500 | AAA | 06:06 | 06:06 | 06:08 |
| 54 | FTJP38 | RJTD | 110500 | | 05:28 | 05:27 | 05:29 |
| 55 | FTJP38 | RJTD | 110500 | RRA | 05:28 | 05:27 | 05:29 |
| 56 | FTJP38 | RJTD | 110500 | AAA | 06:32 | 06:32 | 06:33 |
| 57 | FTKO31 | RKSI | 110500 | | 05:06 | 05:05 | 05:08 |
| 58 | FTKO31 | RKSI | 110500 | RRA | 05:05 | 05:05 | 05:08 |
| 59 | FTNG31 | YBBN | 110400 | | 04:44 | 04:45 | 04:45 |
| 60 | FTNG31 | YBBN | 110400 | AAA | 04:09 | 04:09 | 04:09 |
| 61 | FTNG31 | YBBN | 110500 | RRA | 05:25 | 05:25 | 05:25 |
| 62 | FTNZ31 | NZKL | 110500 | | 05:03 | 05:03 | 05:04 |
| 63 | FTPK31 | OPKC | 110400 | | 04:05 | 04:05 | 04:06 |
| 64 | FTPS31 | NFFN | 110500 | | 05:10 | 05:10 | 05:10 |
| 65 | FTPS31 | NFFN | 110500 | RRA | 05:19 | 05:19 | 05:19 |
| 66 | FTPS31 | NFFN | 110500 | RRB | 05:28 | 05:27 | 05:29 |
| 67 | FTPS31 | NFFN | 110500 | RRC | 05:28 | 05:27 | 05:29 |
| 68 | FTSD31 | OEJD | 110500 | | 05:00 | 05:00 | 05:02 |
| 69 | FTSR31 | WSSS | 110500 | | 05:09 | 05:09 | 05:10 |
| 70 | FTSR31 | WSSS | 110500 | AAA | 08:01 | 08:01 | 08:03 |
| 71 | FTSR32 | WSSS | 110500 | | 05:10 | 05:10 | 05:12 |
| 72 | FTSR33 | WSSS | 110500 | | 05:10 | 05:11 | 05:12 |
| 73 | FTTH31 | VTBB | 110500 | | 05:37 | - | 05:36 |
| 74 | FTTH32 | VTBB | 110500 | | 05:37 | - | 05:37 |
| 75 | FTTH33 | VTBB | 110500 | | 05:37 | - | 05:36 |
| 76 | FTTM31 | YBBN | 110700 | | 07:00 | 07:00 | 07:01 |
