



International Civil Aviation Organization

**THIRTEENTH MEETING OF THE ASIA/PACIFIC REGIONAL OPMET  
BULLETIN EXCHANGE WORKING GROUP (ROBEX WG/13)**

Seoul, Republic of Korea, 16 – 18 March 2015

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**Agenda Item 4: OPMET Exchange**

**a) IROG Back-up procedures and tests**

**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 tenth real-time Back-up exercise conducted by RODB Singapore and RODB Bangkok on 13 February 2015.

**1. INTRODUCTION**

1.1. RODB Singapore is responsible to exchange ASIA/PAC OPMET Data / Information to The WAFC, London. In case of RODB Singapore is unable to exchange response due to technical problems, RODB Bangkok will be take the responsibility to exchange ASIA/PAC OPMET Data / Information to The WAFC, London . (Refer to OPMET/M TF/3 Meeting in March 2005)

1.2. For The IROG Backup Exercise will be based on Appendix D Back-up procedures at the ASIA/PAC Inter-Region OPMET Gateway of ROBEX Handbook – Twelfth Edition 2 – 4.

1.3. The IROG Backup Exercise will be proceed annually. This IROG Backup Exercise is the tenth.

1.4. The purpose of the IROG Backup exercise is to practice and validate for RODB Bangkok to be able to handover and takeover from RODB Singapore.

**2. DISCUSSION**

2.1. According to the tenth real-time backup test, both RODBs agreed to monitor a list of selected ASIA/PAC OPMET bulletins information initiated by RODB Singapore.

2.2. The exercise was conducted on 13 February 2015 with Singapore IROG activating backup procedures for the IROG Bangkok through FAX and email at 0200utc, IROG Bangkok took over the switching at 0200utc. At 0800utc the back-up exercise ended and both RODBs resumed message switching as per normal.

### 3. CONCLUSION

#### 3.1. The result

Type of Message	Number of bulletins RX by RODB Singapore	Number of bulletins RX by RODB Bangkok	Number of bulletins routed to RODB London by Bangkok	Ability of Transmission	Number of bulletins not successfully routed by RODB London by Bangkok	Bulletins Transit time recorded at RODB Bangkok		
						Max	Min	Average (Mins)
SA bulletins	588	588	588	<b>100 %</b>	0	21	1	5.7
FT bulletins	101	101	101	<b>100 %</b>	0	18	1	6.2
Total	689	689	689	<b>100 %</b>	0			

Remark: The number of both FT and SA Bulletins received by RODB Singapore and RODB Bangkok do not include duplicated bulletins

3.2. RODB Bangkok was able to received 588 for METAR bulletins and 101 for TAFOR Bulletins

3.3. RODB Bangkok was able to transmit 588 for METAR bulletins and 101 for TAFOR Bulletins with average transit time for METAR bulletin 1 minute for TAFOR bulletin 6 minutes and ability of transmission both METAR and TAF Bulletins are 100 %

3.4. Total bulletins were transmit more than 5 minutes after receiving by Bangkok IROG as follow; METAR = 227 and TAFOR = 43 due to a lot of unwanted OPMET bulletins from OEDJYMYX (duplicated messages), messages of date 12FEB15 and a lot of notification from OKBKIFYX.

3.5. The comparison of all results between 2008-2015 as shown below:

Year	2008	2009	2010	2011	2012	2013	2014	2015
RODB Bangkok successfully transmitted	91%	91%	98.3%	96.2%	99.11%	99.82%	96.69%	100%

### 4. ACTION BY THE MEETING

4.1. The meeting is invited:

- a) Record result of the IROG back up exercise
- b) Review and search for the improvement,

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**Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET SA -  
Bulletins on 13 February 2015**

					<b>METAR Bulletins</b>		
					<b>Recorded by WSSS RODB RX Time UTC</b>	<b>Recorded by VTBB RODB RX Time UTC</b>	<b>Recorded by VTBB RODB TX Time UTC</b>
	<b>TTAAii</b>	<b>CCCC</b>	<b>YYGGgg</b>	<b>BBB</b>	<b>(hh:mm)</b>	<b>(hh:mm)</b>	<b>(hh:mm)</b>
1	SAAE31	VTBB	130200		02:07	-	02:06
2	SAAE31	VTBB	130200	RRA	02:09	-	02:09
3	SAAE31	VTBB	130230		02:36	-	02:36
4	SAAE31	VTBB	130230	RRA	02:39	-	02:39
5	SAAE31	VTBB	130300		03:07	-	03:06
6	SAAE31	VTBB	130300	RRA	03:08	-	03:08
7	SAAE31	VTBB	130300	RRB	03:24	-	03:24
8	SAAE31	VTBB	130330		03:35	-	03:35
9	SAAE31	VTBB	130330	RRA	03:36	-	03:36
10	SAAE31	VTBB	130330	RRB	03:40	-	03:39
11	SAAE31	VTBB	130400		04:07	-	04:06
12	SAAE31	VTBB	130400	RRA	04:29	-	04:29
13	SAAE31	VTBB	130430		04:35	-	04:35
14	SAAE31	VTBB	130500		05:07	-	05:06
15	SAAE31	VTBB	130500	RRA	05:08	-	05:06
16	SAAE31	VTBB	130500	RRB	05:22	-	05:22
17	SAAE31	VTBB	130530		05:40	-	05:36
18	SAAE31	VTBB	130530	RRA	05:43	-	05:43
19	SAAE31	VTBB	130530	RRB	05:46	-	05:46
20	SAAE31	VTBB	130530	RRC	05:48	-	05:47
21	SAAE31	VTBB	130530	RRD	05:51	-	05:51
22	SAAE31	VTBB	130530	RRE	05:53	-	05:53
23	SAAE31	VTBB	130530	RRF	06:02	-	06:01
24	SAAE31	VTBB	130600		06:07	-	06:06
25	SAAE31	VTBB	130600	RRA	06:08	-	06:08
26	SAAE31	VTBB	130600	RRB	06:10	-	06:09
27	SAAE31	VTBB	130600	RRC	06:12	-	06:12
28	SAAE31	VTBB	130600	RRD	06:14	-	06:14
29	SAAE31	VTBB	130600	RRE	06:18	-	06:18
30	SAAE31	VTBB	130600	RRF	06:20	-	06:20
31	SAAE31	VTBB	130630		06:36	-	06:36
32	SAAE31	VTBB	130630	RRA	06:43	-	06:43
33	SAAE31	VTBB	130630	RRB	06:44	-	06:44
34	SAAE31	VTBB	130630	RRC	06:45	-	06:45
35	SAAE31	VTBB	130630	RRD	06:46	-	06:46
36	SAAE31	VTBB	130630	RRE	06:47	-	06:47
37	SAAE31	VTBB	130630	RRF	06:49	-	06:48
38	SAAE31	VTBB	130630	RRG	06:52	-	06:52
39	SAAE31	VTBB	130700		07:07	-	07:06
40	SAAE31	VTBB	130700	RRA	07:09	-	07:09
41	SAAE31	VTBB	130700	RRB	07:11	-	07:11
42	SAAE31	VTBB	130700	RRC	07:12	-	07:12
43	SAAE31	VTBB	130700	RRD	07:13	-	07:13
44	SAAE31	VTBB	130730		07:37	-	07:36

45	SAAE31	VTBB	130730	RRA	07:37	-	07:37
46	SAAE31	VTBB	130730	RRB	07:39	-	07:39
47	SAAE31	VTBB	130730	RRC	07:42	-	07:42
48	SAAE31	VTBB	130730	RRD	07:44	-	07:44
49	SAAE31	VTBB	130730	RRE	07:47	-	07:47
50	SAAE32	VTBB	130200		02:07	-	02:06
51	SAAE32	VTBB	130300		03:07	-	03:05
52	SAAE32	VTBB	130400		04:07	-	04:05
53	SAAE32	VTBB	130500		05:07	-	05:05
54	SAAE32	VTBB	130600		06:07	-	06:06
55	SAAE32	VTBB	130600	RRA	06:29	-	06:29
56	SAAE32	VTBB	130700		07:07	-	07:06
57	SAAE32	VTBB	130700	RRA	07:12	-	07:11
58	SAAE33	VTBB	130200		02:07	-	02:06
59	SAAE33	VTBB	130230		02:36	-	02:36
60	SAAE33	VTBB	130300		03:07	-	03:06
61	SAAE33	VTBB	130300	RRA	03:08	-	03:06
62	SAAE33	VTBB	130330		03:35	-	03:35
63	SAAE33	VTBB	130400		04:07	-	04:06
64	SAAE33	VTBB	130400	RRA	04:07	-	04:06
65	SAAE33	VTBB	130430		04:35	-	04:35
66	SAAE33	VTBB	130500		05:07	-	05:06
67	SAAE33	VTBB	130500	RRA	05:09	-	05:07
68	SAAE33	VTBB	130500	RRB	05:12	-	05:12
69	SAAE33	VTBB	130500	RRC	05:13	-	05:13
70	SAAE33	VTBB	130530		05:40	-	05:36
71	SAAE33	VTBB	130530	RRA	05:41	-	05:40
72	SAAE33	VTBB	130530	RRB	05:45	-	05:44
73	SAAE33	VTBB	130530	RRC	05:47	-	05:46
74	SAAE33	VTBB	130530	RRD	05:48	-	05:48
75	SAAE33	VTBB	130530	RRE	05:50	-	05:50
76	SAAE33	VTBB	130530	RRF	05:51	-	05:51
77	SAAE33	VTBB	130600		06:07	-	06:06
78	SAAE33	VTBB	130600	RRA	06:12	-	06:12
79	SAAE33	VTBB	130600	RRB	06:13	-	06:13
80	SAAE33	VTBB	130600	RRC	06:14	-	06:14
81	SAAE33	VTBB	130600	RRD	06:18	-	06:18
82	SAAE33	VTBB	130630		06:36	-	06:36
83	SAAE33	VTBB	130630	RRA	06:40	-	06:39
84	SAAE33	VTBB	130630	RRB	06:42	-	06:42
85	SAAE33	VTBB	130630	RRC	06:46	-	06:46
86	SAAE33	VTBB	130630	RRD	06:47	-	06:47
87	SAAE33	VTBB	130630	RRE	06:49	-	06:49
88	SAAE33	VTBB	130630	RRF	06:53	-	06:53
89	SAAE33	VTBB	130700		07:07	-	07:06
90	SAAE33	VTBB	130700	RRA	07:11	-	07:11
91	SAAE33	VTBB	130700	RRB	07:13	-	07:13
92	SAAE33	VTBB	130700	RRC	07:15	-	07:15
93	SAAE33	VTBB	130700	RRD	07:16	-	07:16
94	SAAE33	VTBB	130700	RRE	07:22	-	07:22
95	SAAE33	VTBB	130730		07:37	-	07:36
96	SAAE33	VTBB	130730	RRA	07:39	-	07:38

97	SAAE33	VTBB	130730	RRB	07:40	-	07:40
98	SAAE33	VTBB	130730	RRC	07:42	-	07:42
99	SAAE33	VTBB	130730	RRD	07:43	-	07:43
100	SAAU31	YBBN	130200		02:10	02:14	02:18
101	SAAU31	YBBN	130230		02:40	02:40	02:41
102	SAAU31	YBBN	130300		03:10	03:16	03:21
103	SAAU31	YBBN	130330		03:40	03:40	03:42
104	SAAU31	YBBN	130330	RRA	03:50	03:50	03:51
105	SAAU31	YBBN	130400		04:10	04:14	04:18
106	SAAU31	YBBN	130430		04:40	04:40	04:42
107	SAAU31	YBBN	130500		05:10	05:18	05:23
108	SAAU31	YBBN	130530		05:40	05:46	05:56
109	SAAU31	YBBN	130600		06:10	06:16	06:30
110	SAAU31	YBBN	130630		06:40	06:41	06:56
111	SAAU31	YBBN	130700		07:10	07:16	07:30
112	SAAU31	YBBN	130730		07:40	07:40	07:50
113	SAAU32	YBBN	130200		02:10	02:14	02:18
114	SAAU32	YBBN	130230		02:40	02:40	02:41
115	SAAU32	YBBN	130300		03:10	03:16	03:21
116	SAAU32	YBBN	130330		03:40	03:40	03:42
117	SAAU32	YBBN	130400		04:10	04:14	04:18
118	SAAU32	YBBN	130430		04:40	04:40	04:42
119	SAAU32	YBBN	130500		05:10	05:19	05:23
120	SAAU32	YBBN	130530		05:40	05:46	05:57
121	SAAU32	YBBN	130600		06:10	06:16	06:30
122	SAAU32	YBBN	130630		06:40	06:40	06:56
123	SAAU32	YBBN	130700		07:10	07:15	07:30
124	SAAU32	YBBN	130730		07:40	07:40	07:50
125	SABN31	OBBI	130200		02:06	02:05	02:11
126	SABN31	OBBI	130300		03:07	03:07	03:16
127	SABN31	OBBI	130400		04:10	04:10	04:16
128	SABN31	OBBI	130500		05:10	05:18	05:22
129	SABN31	OBBI	130500	CCA	05:42	05:45	05:58
130	SABN31	OBBI	130600		06:10	06:10	06:29
131	SABN31	OBBI	130630	CCA	06:23	06:23	06:30
132	SABN31	OBBI	130700		07:10	07:10	07:29
133	SABN32	OBBI	130200		02:10	02:10	02:17
134	SABN32	OBBI	130200	RRA	02:16	02:17	02:22
135	SABN32	OBBI	130300		03:10	03:10	03:20
136	SABN32	OBBI	130400		04:10	04:10	04:16
137	SABN32	OBBI	130400	RRA	04:14	04:14	04:21
138	SABN32	OBBI	130500		05:10	05:10	05:23
139	SABN32	OBBI	130500	RRA	05:14	05:14	05:28
140	SABN32	OBBI	130600		06:10	06:10	06:29
141	SABN32	OBBI	130600	RRA	06:14	06:14	06:33
142	SABN32	OBBI	130700		07:10	07:10	07:29
143	SABN32	OBBI	130700	RRA	07:14	07:14	07:32
144	SACI31	ZBBB	130200		02:06	02:10	02:12
145	SACI31	ZBBB	130230		02:35	02:35	02:35
146	SACI31	ZBBB	130300		03:06	03:11	03:14
147	SACI31	ZBBB	130330		03:35	03:35	03:38
148	SACI31	ZBBB	130400		04:06	04:09	04:11

149	SACI31	ZBBB	130430		04:35	04:35	04:37
150	SACI31	ZBBB	130500		05:07	05:13	05:15
151	SACI31	ZBBB	130530		05:35	05:35	05:42
152	SACI31	ZBBB	130530	CCA	05:41	05:40	05:54
153	SACI31	ZBBB	130600		06:06	06:11	06:23
154	SACI31	ZBBB	130630		06:35	06:36	06:53
155	SACI31	ZBBB	130700		07:06	07:10	07:23
156	SACI31	ZBBB	130730		07:35	07:35	07:47
157	SACI32	ZBBB	130200		02:06	02:10	02:12
158	SACI32	ZBBB	130300		03:06	03:11	03:14
159	SACI32	ZBBB	130400		04:06	04:10	04:12
160	SACI32	ZBBB	130500		05:07	05:13	05:15
161	SACI32	ZBBB	130600		06:06	06:05	06:24
162	SACI32	ZBBB	130700		07:06	07:05	07:25
163	SACI41	ZBBB	130200		02:06	02:11	02:13
164	SACI41	ZBBB	130300		03:07	03:12	03:15
165	SACI41	ZBBB	130400		04:07	04:10	04:13
166	SACI41	ZBBB	130500		05:08	05:14	05:18
167	SACI41	ZBBB	130600		06:07	06:12	06:24
168	SACI41	ZBBB	130700		07:06	07:11	07:25
169	SAHK31	VHHH	130200		02:07	02:11	02:14
170	SAHK31	VHHH	130230		02:36	02:36	02:36
171	SAHK31	VHHH	130300		03:09	03:16	03:20
172	SAHK31	VHHH	130330		03:36	03:36	03:40
173	SAHK31	VHHH	130400		04:07	04:10	04:13
174	SAHK31	VHHH	130430		04:36	04:36	04:37
175	SAHK31	VHHH	130500		05:07	05:14	05:18
176	SAHK31	VHHH	130530		05:40	05:42	05:55
177	SAHK31	VHHH	130530	RRA	05:56	05:56	06:06
178	SAHK31	VHHH	130600		06:07	06:13	06:25
179	SAHK31	VHHH	130630		06:40	06:40	06:56
180	SAHK31	VHHH	130700		07:06	07:12	07:26
181	SAHK31	VHHH	130700	CCA	07:08	07:13	07:28
182	SAHK31	VHHH	130730		07:36	07:36	07:47
183	SAID31	WIII	130200		02:10	02:14	02:17
184	SAID31	WIII	130230		02:40	02:40	02:41
185	SAID31	WIII	130300		03:10	03:16	03:22
186	SAID31	WIII	130330		03:40	03:40	03:42
187	SAID31	WIII	130400		04:10	04:14	04:18
188	SAID31	WIII	130430		04:40	04:41	04:42
189	SAID31	WIII	130500		05:10	05:19	05:23
190	SAID31	WIII	130530		05:40	05:46	05:57
191	SAID31	WIII	130600		06:10	06:16	06:30
192	SAID31	WIII	130630		06:40	06:41	06:58
193	SAID31	WIII	130700		07:10	07:16	07:31
194	SAID31	WIII	130730		07:40	07:40	07:50
195	SAID32	WIII	130200		02:10	02:14	02:18
196	SAID32	WIII	130230		02:40	02:40	02:41
197	SAID32	WIII	130300		03:10	03:17	03:22
198	SAID32	WIII	130330		03:40	03:40	03:43
199	SAID32	WIII	130400		04:10	04:10	04:18
200	SAID32	WIII	130430		04:40	04:41	04:42

201	SAID32	WIII	130500		05:10	05:10	05:25
202	SAID32	WIII	130500		05:13	05:13	05:27
203	SAID32	WIII	130530		05:40	05:46	05:57
204	SAID32	WIII	130600		06:10	06:10	06:30
205	SAID32	WIII	130630		06:40	06:41	06:58
206	SAID32	WIII	130630		06:42	06:42	06:59
207	SAID32	WIII	130700		07:10	07:16	07:31
208	SAID32	WIII	130730		07:40	07:40	07:50
209	SAID33	WIII	130200		02:10	02:10	02:17
210	SAID33	WIII	130230		02:40	02:40	02:41
211	SAID33	WIII	130230	RRA	02:45	02:40	02:45
212	SAID33	WIII	130300		03:10	03:10	03:21
213	SAID33	WIII	130330		03:40	03:40	03:42
214	SAID33	WIII	130400		04:10	04:10	04:18
215	SAID33	WIII	130430		04:40	04:42	04:42
216	SAID33	WIII	130500		05:10	05:10	05:23
217	SAID33	WIII	130530		05:40	05:45	05:57
218	SAID33	WIII	130600		06:10	06:10	06:30
219	SAID33	WIII	130630		06:40	06:40	06:58
220	SAID33	WIII	130700		07:10	07:10	07:31
221	SAID33	WIII	130730		07:40	07:40	07:50
222	SAIN31	VABB	130210		02:26	02:26	02:27
223	SAIN31	VABB	130240		02:56	02:57	02:58
224	SAIN31	VABB	130310		03:27	03:28	03:31
225	SAIN31	VABB	130340		03:56	03:57	03:57
226	SAIN31	VABB	130410		04:30	04:31	04:34
227	SAIN31	VABB	130440		04:56	04:57	04:57
228	SAIN31	VABB	130510		05:26	05:32	05:44
229	SAIN31	VABB	130540		05:56	05:57	06:08
230	SAIN31	VABB	130610		06:26	06:27	06:44
231	SAIN31	VABB	130640		06:56	06:57	07:10
232	SAIN31	VABB	130710		07:28	07:28	07:40
233	SAIN31	VABB	130740		07:57	07:58	07:59
234	SAIN32	VIDP	130200		02:14	02:15	02:20
235	SAIN32	VIDP	130200	RRA	02:29	02:29	02:30
236	SAIN32	VIDP	130230		02:46	02:44	02:44
237	SAIN32	VIDP	130300		03:19	03:21	03:27
238	SAIN32	VIDP	130330		03:45	03:45	03:45
239	SAIN32	VIDP	130400		04:16	04:16	04:21
240	SAIN32	VIDP	130430		04:44	04:44	04:45
241	SAIN32	VIDP	130500		05:16	05:26	05:32
242	SAIN32	VIDP	130530		05:50	05:47	06:00
243	SAIN32	VIDP	130600		06:14	06:19	06:33
244	SAIN32	VIDP	130600	RRA	06:18	06:21	06:37
245	SAIN32	VIDP	130630		06:44	06:44	07:01
246	SAIN32	VIDP	130700		07:14	07:18	07:33
247	SAIN32	VIDP	130700	RRA	07:27	07:24	07:38
248	SAIN32	VIDP	130730		07:46	07:46	07:52
249	SAIN32	VIDP	130730	RRA	07:49	07:49	07:53
250	SAIN33	VECC	130150		02:00	02:00	02:03
251	SAIN33	VECC	130250		03:00	03:01	03:05
252	SAIN33	VECC	130350		04:01	04:01	04:05



253	SAIN33	VECC	130450		05:00	05:01	05:06
254	SAIN33	VECC	130550		06:00	06:01	06:14
255	SAIN33	VECC	130550	RRA	06:06	06:05	06:24
256	SAIN33	VECC	130650		07:00	07:15	07:15
257	SAIN33	VECC	130750		08:00	08:00	08:02
258	SAIR31	OIII	130200		02:03	02:05	02:05
259	SAIR31	OIII	130200	RRA	02:05	02:04	02:09
260	SAIR31	OIII	130200	RRB	02:06	02:04	02:10
261	SAIR31	OIII	130230		02:33	02:34	02:34
262	SAIR31	OIII	130300		03:03	03:02	03:07
263	SAIR31	OIII	130330		03:33	03:34	03:37
264	SAIR31	OIII	130330	RRA	03:36	03:36	03:40
265	SAIR31	OIII	130400		04:03	04:02	04:06
266	SAIR31	OIII	130430		04:33	04:34	04:35
267	SAIR31	OIII	130430	RRA	04:35	04:35	04:37
268	SAIR31	OIII	130500		05:04	05:02	05:08
269	SAIR31	OIII	130500	RRA	05:06	05:04	05:13
270	SAIR31	OIII	130500	RRB	05:07	05:05	05:13
271	SAIR31	OIII	130530		05:33	05:34	05:53
272	SAIR31	OIII	130600		06:03	06:02	06:15
273	SAIR31	OIII	130600	RRA	06:05	06:04	06:21
274	SAIR31	OIII	130630		06:33	06:34	06:51
275	SAIR31	OIII	130630	RRA	06:34	06:34	06:52
276	SAIR31	OIII	130700		07:03	07:02	07:17
277	SAIR31	OIII	130700	RRA	07:05	07:04	07:21
278	SAIR31	OIII	130700	RRB	07:06	07:05	07:23
279	SAIR31	OIII	130730		07:33	07:34	07:46
280	SAIR31	OIII	130730	RRA	07:40	07:40	07:50
281	SAIR32	OIII	130200		02:03	02:02	02:05
282	SAIR32	OIII	130230		02:34	02:34	02:35
283	SAIR32	OIII	130230	RRA	02:52	02:52	02:52
284	SAIR32	OIII	130300		03:03	03:02	03:07
285	SAIR32	OIII	130330		03:34	03:34	03:37
286	SAIR32	OIII	130400		04:03	04:02	04:06
287	SAIR32	OIII	130430		04:34	04:34	04:36
288	SAIR32	OIII	130500		05:04	05:02	05:08
289	SAIR32	OIII	130530		05:33	05:34	05:53
290	SAIR32	OIII	130600		06:03	06:02	06:15
291	SAIR32	OIII	130630		06:34	06:34	06:51
292	SAIR32	OIII	130700		07:04	07:02	07:17
293	SAIR32	OIII	130700	RRA	07:05	07:04	07:22
294	SAIR32	OIII	130730		07:33	07:34	07:46
295	SAIR33	OIII	130200		02:03	02:02	02:05
296	SAIR33	OIII	130200	RRA	02:17	02:17	02:24
297	SAIR33	OIII	130300		03:03	03:02	03:08
298	SAIR33	OIII	130300	RRA	03:43	03:44	03:44
299	SAIR33	OIII	130300	RRB	03:45	03:45	03:46
300	SAIR33	OIII	130400		04:03	04:02	04:06
301	SAIR33	OIII	130400	RRA	04:05	04:03	04:08
302	SAIR33	OIII	130430		04:34	04:34	04:36
303	SAIR33	OIII	130500		05:04	05:02	05:08
304	SAIR33	OIII	130500	RRA	05:05	05:04	05:12



305	SAIR33	OIII	130500	RRB	05:10	05:09	05:21
306	SAIR33	OIII	130500	RRC	05:10	05:09	05:22
307	SAIR33	OIII	130530		05:34	05:34	05:53
308	SAIR33	OIII	130600		06:04	06:02	06:16
309	SAIR33	OIII	130600	RRA	06:05	06:05	06:22
310	SAIR33	OIII	130600	RRB	06:06	06:06	06:24
311	SAIR33	OIII	130630		06:34	06:34	06:52
312	SAIR33	OIII	130700		07:04	07:02	07:17
313	SAIR33	OIII	130700	RRA	07:16	07:16	07:36
314	SAIR33	OIII	130730		07:34	07:34	07:46
315	SAIR34	OIII	130200		02:03	02:02	02:05
316	SAIR34	OIII	130200	RRA	02:10	02:11	02:18
317	SAIR34	OIII	130300		03:03	03:02	03:09
318	SAIR34	OIII	130330		03:34	03:34	03:37
319	SAIR34	OIII	130400		04:03	04:02	04:06
320	SAIR34	OIII	130430		04:34	04:34	04:36
321	SAIR34	OIII	130430	RRA	04:40	04:40	04:42
322	SAIR34	OIII	130500		05:04	05:02	05:09
323	SAIR34	OIII	130530	RRA	05:40	05:44	05:55
324	SAIR34	OIII	130600		06:04	06:02	06:16
325	SAIR34	OIII	130700		07:04	07:02	07:19
326	SAIR35	OIII	130200		02:03	02:02	02:05
327	SAIR35	OIII	130300		03:03	03:02	03:09
328	SAIR35	OIII	130300	RRA	03:10	03:11	03:22
329	SAIR35	OIII	130400		04:03	04:02	04:07
330	SAIR35	OIII	130400	RRA	04:11	04:11	04:18
331	SAIR35	OIII	130500		05:04	05:02	05:08
332	SAIR35	OIII	130600		06:04	06:02	06:16
333	SAIR35	OIII	130700		07:04	07:02	07:19
334	SAIR36	OIII	130200		02:03	02:02	02:06
335	SAIR36	OIII	130300		03:03	03:02	03:09
336	SAIR36	OIII	130300	RRA	03:10	03:11	03:22
337	SAIR36	OIII	130400		04:03	04:02	04:07
338	SAIR36	OIII	130400	RRA	04:11	04:11	04:18
339	SAIR36	OIII	130430	RRB	04:40	04:40	04:42
340	SAIR36	OIII	130500		05:04	05:02	05:09
341	SAIR36	OIII	130500	RRA	05:06	05:04	05:13
342	SAIR36	OIII	130530	RRB	05:40	05:44	05:55
343	SAIR36	OIII	130600		06:04	06:02	06:16
344	SAIR36	OIII	130630	RRA	06:40	06:40	06:57
345	SAIR36	OIII	130700		07:04	07:02	07:19
346	SAIR36	OIII	130730		07:34	07:34	07:46
347	SAIR37	OIII	130200		02:03	02:02	02:06
348	SAIR37	OIII	130200	RRA	02:10	02:11	02:19
349	SAIR37	OIII	130300		03:03	03:02	03:10
350	SAIR37	OIII	130300	RRA	03:11	03:11	03:23
351	SAIR37	OIII	130400		04:03	04:02	04:07
352	SAIR37	OIII	130500		05:04	05:02	05:09
353	SAIR37	OIII	130600		06:04	06:02	06:17
354	SAIR37	OIII	130700		07:04	07:02	07:20
355	SAJP31	RJTD	130200		02:07	02:11	02:14
356	SAJP31	RJTD	130300		03:07	03:12	03:15


357	SAJP31	RJTD	130400		04:07	04:11	04:13
358	SAJP31	RJTD	130500		05:08	05:15	05:18
359	SAJP31	RJTD	130600		06:07	06:12	06:25
360	SAJP31	RJTD	130700		07:07	07:12	07:27
361	SAJP32	RJTD	130200	RRA	02:07	02:11	02:14
362	SAJP32	RJTD	130200		02:07	02:11	02:14
363	SAJP32	RJTD	130300		03:07	03:13	03:17
364	SAJP32	RJTD	130300	RRA	03:08	03:13	03:17
365	SAJP32	RJTD	130400		04:07	04:11	04:13
366	SAJP32	RJTD	130400	RRA	04:07	04:11	04:13
367	SAJP32	RJTD	130500	RRA	05:08	05:15	05:19
368	SAJP32	RJTD	130500		05:08	05:15	05:19
369	SAJP32	RJTD	130600		06:07	06:12	06:25
370	SAJP32	RJTD	130600	RRA	06:07	06:12	06:25
371	SAJP32	RJTD	130700		07:07	07:12	07:27
372	SAJP32	RJTD	130700	RRA	07:07	07:12	07:27
373	SAJP38	RJTD	130200		02:07	02:11	02:14
374	SAJP38	RJTD	130200	RRA	02:07	02:11	02:14
375	SAJP38	RJTD	130300		03:08	03:13	03:17
376	SAJP38	RJTD	130300	RRA	03:08	03:14	03:17
377	SAJP38	RJTD	130400		04:07	04:11	04:14
378	SAJP38	RJTD	130400	RRA	04:07	04:11	04:14
379	SAJP38	RJTD	130500		05:08	05:15	05:19
380	SAJP38	RJTD	130500	RRA	05:08	05:15	05:19
381	SAJP38	RJTD	130600	RRA	06:07	06:13	06:25
382	SAJP38	RJTD	130600		06:07	06:13	06:25
383	SAJP38	RJTD	130700	RRA	07:07	07:12	07:27
384	SAJP38	RJTD	130700		07:07	07:12	07:27
385	SAKO31	RKSI	130200		02:05	02:08	02:10
386	SAKO31	RKSI	130230		02:34	02:34	02:35
387	SAKO31	RKSI	130300		03:05	03:09	03:12
388	SAKO31	RKSI	130330		03:34	03:34	03:39
389	SAKO31	RKSI	130400		04:05	04:08	04:10
390	SAKO31	RKSI	130430		04:34	04:34	04:36
391	SAKO31	RKSI	130500		05:06	05:11	05:13
392	SAKO31	RKSI	130530		05:34	05:40	05:53
393	SAKO31	RKSI	130600		06:05	06:09	06:20
394	SAKO31	RKSI	130630		06:34	06:35	06:52
395	SAKO31	RKSI	130700		07:05	07:08	07:22
396	SAKO31	RKSI	130730		07:34	07:35	07:46
397	SAME31	OLBA	130200		02:06	02:05	02:11
398	SAME31	OLBA	130200	RRA	02:17	02:17	02:24
399	SAME31	OLBA	130300		03:06	03:05	03:13
400	SAME31	OLBA	130300	RRA	03:17	03:17	03:27
401	SAME31	OLBA	130400		04:06	04:05	04:11
402	SAME31	OLBA	130400	RRA	04:17	04:17	04:24
403	SAME31	OLBA	130500		05:07	05:05	05:14
404	SAME31	OLBA	130500	RRA	05:17	05:17	05:32
405	SAME31	OLBA	130600		06:06	06:05	06:23
406	SAME31	OLBA	130600	RRA	06:17	06:19	06:37
407	SAME31	OLBA	130700		07:06	07:05	07:24
408	SAME31	OLBA	130700	RRA	07:17	07:37	07:48

409	SAMS31	WMKK	130200		02:09	02:07	02:14
410	SAMS31	WMKK	130200	RRA	02:09	02:09	02:17
411	SAMS31	WMKK	130230		02:38	02:37	02:39
412	SAMS31	WMKK	130300		03:08	03:07	03:18
413	SAMS31	WMKK	130330		03:38	03:37	03:41
414	SAMS31	WMKK	130400		04:08	04:07	04:14
415	SAMS31	WMKK	130430		04:38	04:37	04:38
416	SAMS31	WMKK	130500		05:09	05:07	05:20
417	SAMS31	WMKK	130500	RRA	05:13	05:13	05:27
418	SAMS31	WMKK	130530		05:38	05:37	05:55
419	SAMS31	WMKK	130600		06:09	06:07	06:26
420	SAMS31	WMKK	130630		06:38	06:37	06:54
421	SAMS31	WMKK	130700		07:08	07:07	07:28
422	SAMS31	WMKK	130730		07:38	07:37	07:48
423	SAMS38	WMKK	130200		02:09	02:08	02:15
424	SAMS38	WMKK	130300		03:09	03:08	03:18
425	SAMS38	WMKK	130400		04:09	04:08	04:14
426	SAMS38	WMKK	130500		05:10	05:08	05:20
427	SAMS38	WMKK	130600		06:09	06:07	06:27
428	SAMS38	WMKK	130700		07:09	07:07	07:28
429	SANG31	YBBN	130200		02:10	02:10	02:17
430	SANG31	YBBN	130300		03:10	03:10	03:20
431	SANG31	YBBN	130400		04:10	04:10	04:17
432	SANG31	YBBN	130500		05:10	05:10	05:23
433	SANG31	YBBN	130600		06:10	06:10	06:29
434	SANG31	YBBN	130600	RRA	06:20	06:21	06:38
435	SANG31	YBBN	130700		07:10	07:10	07:30
436	SANZ31	NZKL	130200		02:08	02:13	02:15
437	SANZ31	NZKL	130230		02:37	02:37	02:37
438	SANZ31	NZKL	130300		03:08	03:13	03:17
439	SANZ31	NZKL	130330		03:37	03:37	03:40
440	SANZ31	NZKL	130400		04:07	04:11	04:14
441	SANZ31	NZKL	130430		04:37	04:37	04:39
442	SANZ31	NZKL	130500		05:08	05:16	05:19
443	SANZ31	NZKL	130530		05:37	05:41	05:54
444	SANZ31	NZKL	130600		06:07	06:13	06:25
445	SANZ31	NZKL	130630		06:37	06:37	06:54
446	SANZ31	NZKL	130700		07:08	07:13	07:28
447	SANZ31	NZKL	130730		07:37	07:37	07:48
448	SAPK31	OPKC	130230		02:29	02:29	02:29
449	SAPK31	OPKC	130300		02:59	03:00	03:03
450	SAPK31	OPKC	130300	RRA	03:00	03:02	03:04
451	SAPK31	OPKC	130330		03:29	03:29	03:33
452	SAPK31	OPKC	130330	RRA	03:30	03:30	03:34
453	SAPK31	OPKC	130400		03:59	03:59	04:01
454	SAPK31	OPKC	130430		04:29	04:29	04:31
455	SAPK31	OPKC	130430	RRA	04:33	04:33	04:35
456	SAPK31	OPKC	130500		04:59	04:59	05:00
457	SAPK31	OPKC	130530		05:29	05:34	05:46
458	SAPK31	OPKC	130600		05:59	06:00	06:10
459	SAPK31	OPKC	130630		06:29	06:29	06:45
460	SAPK31	OPKC	130630	RRA	06:32	06:32	06:49

461	SAPK31	OPKC	130700		06:59	06:59	07:11
462	SAPK31	OPKC	130700	RRA	07:04	07:06	07:20
463	SAPK31	OPKC	130730		07:29	07:29	07:41
464	SAPK31	OPKC	130730	RRA	07:31	07:32	07:44
465	SAPK31	OPKC	130800		07:59	07:59	08:01
466	SAPS31	NFFN	130200		02:15	02:16	02:20
467	SAPS31	NFFN	130300		03:15	03:21	03:26
468	SAPS31	NFFN	130400		04:15	04:17	04:22
469	SAPS31	NFFN	130500		05:15	05:29	05:30
470	SAPS31	NFFN	130500	CCA	05:26	05:32	05:43
471	SAPS31	NFFN	130600		06:15	06:20	06:33
472	SAPS31	NFFN	130700		07:15	07:12	07:33
473	SAPS32	NFFN	130200		02:15	02:15	02:20
474	SAPS32	NFFN	130300		03:15	03:15	03:25
475	SAPS32	NFFN	130400		04:15	04:15	04:22
476	SAPS32	NFFN	130500		05:15	05:15	05:30
477	SAPS32	NFFN	130600		06:15	06:15	06:33
478	SAPS32	NFFN	130700		07:15	07:15	07:33
479	SASB31	VCCC	130210		02:20	02:20	02:25
480	SASB31	VCCC	130310		03:20	03:20	03:28
481	SASB31	VCCC	130410		04:20	04:20	04:26
482	SASB31	VCCC	130510		05:21	05:21	05:36
483	SASB31	VCCC	130610		06:20	06:21	06:38
484	SASB31	VCCC	130710		07:21	07:21	07:37
485	SASD31	OEJD	130200		02:00	02:02	02:02
486	SASD31	OEJD	130200	RRA	02:06	02:05	02:10
487	SASD31	OEJD	130300		03:00	03:01	03:04
488	SASD31	OEJD	130300	RRA	03:06	03:05	03:12
489	SASD31	OEJD	130400		04:00	04:00	04:03
490	SASD31	OEJD	130500		05:00	05:00	05:05
491	SASD31	OEJD	130600		06:00	06:00	06:11
492	SASD31	OEJD	130600	RRA	06:10	06:10	06:29
493	SASD31	OEJD	130700		07:00	07:00	07:14
494	SASD31	OEJD	130700	RRA	07:06	07:05	07:23
495	SASD31	OEJD	130700	RRB	07:10	07:10	07:30
496	SATH31	VTBB	130200		02:07	-	02:06
497	SATH31	VTBB	130200	RRA	02:07	-	02:07
498	SATH31	VTBB	130200	RRB	02:08	-	02:08
499	SATH31	VTBB	130200	RRC	02:09	-	02:09
500	SATH31	VTBB	130200	RRD	02:14	-	02:14
501	SATH31	VTBB	130200	RRE	02:20	-	02:19
502	SATH31	VTBB	130300		03:07	-	03:05
503	SATH31	VTBB	130300	RRA	03:07	-	03:06
504	SATH31	VTBB	130300	RRB	03:11	-	03:11
505	SATH31	VTBB	130300	RRC	03:16	-	03:16
506	SATH31	VTBB	130300	RRD	03:19	-	03:19
507	SATH31	VTBB	130300	RRE	03:29	-	03:29
508	SATH31	VTBB	130400		04:06	-	04:05
509	SATH31	VTBB	130400	RRA	04:08	-	04:08
510	SATH31	VTBB	130400	RRB	04:09	-	04:08
511	SATH31	VTBB	130400	RRC	04:10	-	04:10
512	SATH31	VTBB	130400	RRD	04:13	-	04:13

513	SATH31	VTBB	130400	RRE	04:20	-	04:19
514	SATH31	VTBB	130500		05:07	-	05:05
515	SATH31	VTBB	130500	RRA	05:10	-	05:10
516	SATH31	VTBB	130500	RRB	05:12	-	05:12
517	SATH31	VTBB	130500	RRC	05:40	-	05:26
518	SATH31	VTBB	130600		06:07	-	06:06
519	SATH31	VTBB	130600	RRA	06:14	-	06:14
520	SATH31	VTBB	130600	RRB	06:19	-	06:18
521	SATH31	VTBB	130600	RRC	06:20	-	06:20
522	SATH31	VTBB	130600	RRD	06:32	-	06:32
523	SATH31	VTBB	130700		07:07	-	07:06
524	SATH31	VTBB	130700	RRA	07:15	-	07:15
525	SATH31	VTBB	130700	RRB	07:16	-	07:16
526	SATH31	VTBB	130700	RRC	07:20	-	07:20
527	SATH31	VTBB	130700	RRD	07:21	-	07:21
528	SATH31	VTBB	130700	RRE	07:29	-	07:29
529	SATH32	VTBB	130200		02:07	-	02:06
530	SATH32	VTBB	130200	RRA	02:07	-	02:07
531	SATH32	VTBB	130200	RRB	02:08	-	02:08
532	SATH32	VTBB	130200	RRC	02:10	-	02:10
533	SATH32	VTBB	130200	RRD	02:14	-	02:14
534	SATH32	VTBB	130200	RRE	02:23	-	02:23
535	SATH32	VTBB	130300		03:07	-	03:05
536	SATH32	VTBB	130300	RRA	03:10	-	03:10
537	SATH32	VTBB	130300	RRB	03:11	-	03:11
538	SATH32	VTBB	130300	RRC	03:15	-	03:15
539	SATH32	VTBB	130400		04:06	-	04:05
540	SATH32	VTBB	130400	RRA	04:08	-	04:08
541	SATH32	VTBB	130400	RRB	04:10	-	04:10
542	SATH32	VTBB	130400	RRC	04:11	-	04:11
543	SATH32	VTBB	130500		05:07	-	05:05
544	SATH32	VTBB	130500	RRA	05:10	-	05:10
545	SATH32	VTBB	130500	RRB	05:16	-	05:16
546	SATH32	VTBB	130500	RRC	05:40	-	05:26
547	SATH32	VTBB	130600		06:07	-	06:06
548	SATH32	VTBB	130600	RRA	06:09	-	06:09
549	SATH32	VTBB	130600	RRB	06:16	-	06:15
550	SATH32	VTBB	130600	RRC	06:18	-	06:18
551	SATH32	VTBB	130600	RRD	06:20	-	06:20
552	SATH32	VTBB	130700		07:07	-	07:06
553	SATH32	VTBB	130700	RRA	07:11	-	07:11
554	SATH32	VTBB	130700	RRB	07:29	-	07:29
555	SATH32	VTBB	130700	RRC	07:43	-	07:43
556	SATH33	VTBB	130300	RRC	03:14	-	03:14
557	SATH33	VTBB	130200		02:06	-	02:06
558	SATH33	VTBB	130200	RRA	02:09	-	02:09
559	SATH33	VTBB	130300		03:06	-	03:05
560	SATH33	VTBB	130300	RRA	03:07	-	03:06
561	SATH33	VTBB	130300	RRB	03:10	-	03:10
562	SATH33	VTBB	130400		04:06	-	04:05
563	SATH33	VTBB	130400	RRA	04:07	-	04:06
564	SATH33	VTBB	130400	RRB	04:08	-	04:08

565	SATH33	VTBB	130500		05:07	-	05:05
566	SATH33	VTBB	130500	RRA	05:08	-	05:06
567	SATH33	VTBB	130500	RRB	05:09	-	05:07
568	SATH33	VTBB	130600		06:06	-	06:06
569	SATH33	VTBB	130600	RRA	06:09	-	06:09
570	SATH33	VTBB	130600	RRB	06:13	-	06:12
571	SATH33	VTBB	130600	RRC	06:15	-	06:15
572	SATH33	VTBB	130600	RRD	06:27	-	06:27
573	SATH33	VTBB	130600	RRE	06:31	-	06:31
574	SATH33	VTBB	130700		07:07	-	07:06
575	SATH33	VTBB	130700	RRA	07:21	-	07:21
576	SATH33	VTBB	130700	RRB	07:22	-	07:22
577	SATH33	VTBB	130700	RRC	07:27	-	07:27
578	SATH33	VTBB	130700	RRD	07:29	-	07:29
579	SATH41	VTBB	130200		02:07	-	02:06
580	SATH41	VTBB	130300		03:07	-	03:05
581	SATH41	VTBB	130400		04:07	-	04:05
582	SATH41	VTBB	130400	RRA	04:09	-	04:09
583	SATH41	VTBB	130500		05:07	-	05:06
584	SATH41	VTBB	130500	RRA	05:18	-	05:18
585	SATH41	VTBB	130600		06:07	-	06:06
586	SATH41	VTBB	130600	RRA	06:29	-	06:29
587	SATH41	VTBB	130700		07:07	-	07:06
588	SATH41	VTBB	130700	RRA	07:13	-	07:13

 Transmitting Time more than 5 minutes




Appendix B : Summary Table of Switching of ASIA/PAC and MID OPMET FT-Bulletins  
 on 13 February 2015

					<b>TAF Bulletins</b>		
					Recorded by WSSS RODB RX Time UTC	Recorded by VTBB RODB RX Time UTC	Recorded by VTBB RODB TX Time UTC
	TTAAii	CCCC	YYGGgg	BBB	(hh:mm)	(hh:mm)	(hh:mm)
1	FTAE31	VTBB	130500		05:05	-	05:04
2	FTAE31	VTBB	130500	RRA	05:09	-	05:07
3	FTAE32	VTBB	130500		05:05	-	05:04
4	FTAE33	VTBB	130500		05:05	-	05:04
5	FTAE34	VTBB	130500		05:05	-	05:04
6	FTAU31	YBBN	130500		05:00	05:02	05:02
7	FTAU31	YBBN	130500	AAA	05:07	05:13	05:16
8	FTAU31	YBBN	130500	RRA	05:10	05:18	05:23
9	FTAU31	YBBN	130500	RRB	05:20	05:28	05:36
10	FTAU31	YBBN	130500	RRC	05:40	05:46	05:56
11	FTAU32	YBBN	130300	AAF	03:08	03:15	03:18
12	FTAU32	YBBN	130300	AAG	03:47	03:47	03:48
13	FTAU32	YBBN	130300	AAH	03:49	03:50	03:50
14	FTAU32	YBBN	130400	AAI	04:46	04:46	04:46
15	FTAU32	YBBN	130500		05:00	05:02	05:02
16	FTAU32	YBBN	130500	RRA	05:10	05:18	05:23
17	FTAU32	YBBN	130500	AAA	05:10	05:19	05:24
18	FTAU32	YBBN	130500	RRB	05:20	05:28	05:36
19	FTAU32	YBBN	130500	AAB	05:29	05:34	05:46
20	FTAU32	YBBN	130500	RRC	05:30	05:36	05:48
21	FTAU32	YBBN	130500	AAD	05:40	05:45	05:55
22	FTAU32	YBBN	130500	AAC	05:38	05:42	05:55
23	FTAU32	YBBN	130600	AAE	06:36	06:36	06:54
24	FTAU32	YBBN	130600	AAF	06:37	06:37	06:54
25	FTAU32	YBBN	130700	AAG	07:17	07:19	07:36
26	FTAU33	YBBN	130300	AAG	03:15	03:21	03:27
27	FTAU33	YBBN	130400	AAH	04:18	04:19	04:24
28	FTAU33	YBBN	130400	AAI	04:24	04:24	04:28
29	FTAU33	YBBN	130500		05:00	05:02	05:04
30	FTAU33	YBBN	130500	RRA	05:10	05:18	05:23
31	FTAU33	YBBN	130500	AAA	05:11	05:19	05:24
32	FTAU33	YBBN	130500	AAB	05:18	05:27	05:33
33	FTAU33	YBBN	130500	RRB	05:20	05:28	05:36
34	FTAU33	YBBN	130500	RRC	05:30	05:36	05:48
35	FTAU33	YBBN	130700	AAC	07:06	07:11	07:25
36	FTAU34	YBBN	130300	AAB	03:22	03:23	03:29
37	FTAU34	YBBN	130400	AAC	04:25	04:25	04:29
38	FTAU34	YBBN	130400	AAD	04:45	04:45	04:46
39	FTAU34	YBBN	130400	AAE	04:53	04:52	04:54
40	FTAU34	YBBN	130500		05:00	05:02	05:04
41	FTAU35	YBBN	130600	AAA	06:37	06:37	06:54
42	FTAU35	YBBN	130600	AAB	06:41	06:42	06:59
43	FTAU35	YBBN	130700		07:00	07:01	07:14



44	FTBN31	OBBI	130500		05:10	05:10	05:10
45	FTBN32	OBBI	130500		05:14	05:29	05:29
46	FTCI31	ZBBB	130400		04:00	04:00	04:02
47	FTCI32	ZBBB	130400		04:00	04:00	04:04
48	FTCI32	ZBBB	130439	RRA	04:39	04:04	04:41
49	FTCI32	ZBBB	130444	CCA	04:44	04:44	04:45
50	FTCI41	ZBBB	130400		04:01	04:02	04:05
51	FTCI41	ZBBB	130610	AAA	06:10	06:10	06:10
52	FTHK31	VHHH	122300	AAA	04:39	04:39	04:39
53	FTHK31	VHHH	130500		05:30	05:31	05:42
54	FTHK31	VHHH	130500	RRA	05:36	05:37	05:49
55	FTHK31	VHHH	130500	RRB	05:36	05:37	05:50
56	FTIN31	VABB	130300	RRA	05:09	05:18	05:21
57	FTIN31	VABB	130300	RRB	05:09	05:19	05:21
58	FTIN32	VABB	130300		05:10	05:19	05:21
59	FTIR31	OIII	130500		05:11	05:19	05:24
60	FTIR32	OIII	130500		05:11	05:19	05:25
61	FTIR33	OIII	130500		05:11	05:19	05:25
62	FTJP31	RJTD	122300	AAB	03:28	03:28	03:33
63	FTJP31	RJTD	122300	AAC	03:47	03:47	03:49
64	FTJP31	RJTD	130500		05:27	05:33	05:44
65	FTJP32	RJTD	122300	AAC	02:14	02:14	02:19
66	FTJP32	RJTD	122300	AAD	02:15	02:15	02:22
67	FTJP32	RJTD	122300	AAE	03:29	03:29	03:33
68	FTJP32	RJTD	122300	AAF	03:37	03:37	03:41
69	FTJP32	RJTD	130500	RRA	05:27	05:33	05:44
70	FTJP32	RJTD	130500		05:27	05:33	05:44
71	FTJP32	RJTD	130500	RRB	05:27	05:33	05:45
72	FTJP38	RJTD	122300	AAA	02:09	02:13	02:17
73	FTJP38	RJTD	122300	AAB	03:08	03:15	03:19
74	FTJP38	RJTD	122300	AAC	03:47	03:47	03:48
75	FTJP38	RJTD	130500	RRA	05:28	05:33	05:45
76	FTJP38	RJTD	130500	RRB	05:28	05:33	05:45
77	FTJP38	RJTD	130500		05:27	05:33	05:45
78	FTJP38	RJTD	130500	RRC	05:28	05:33	05:46
79	FTKO31	RKSI	130500		05:07	05:13	05:15
80	FTKO31	RKSI	130500	CCA	05:11	05:20	05:25
81	FTME31	OLBA	130414	RRA	04:16	04:16	04:23
82	FTME31	OLBA	130400	RRB	04:26	04:27	04:30
83	FTNG31	YBBN	130400	AAA	04:15	04:15	04:22
84	FTNG31	YBBN	130400		04:45	04:45	04:45
85	FTNZ31	NZKL	130225	AAA	02:25	02:25	02:27
86	FTNZ31	NZKL	130505		05:07	05:14	05:17
87	FTNZ31	NZKL	130627	AAA	06:28	06:28	06:45
88	FTPK31	OPKC	130400		04:06	04:08	04:11
89	FTPS31	NFFN	130500		05:10	05:18	05:22
90	FTPS31	NFFN	130500	RRA	05:15	05:25	05:31
91	FTPS31	NFFN	130500	AAA	05:36	05:41	05:54
92	FTSD31	OEJD	130500		05:00	05:03	05:04
93	FTSR31	WSSS	130500		05:05	05:15	05:15
94	FTSR31	WSSS	130500	RRA	06:00	06:02	06:14
95	FTSR32	WSSS	130500		05:06	05:16	05:18

96	FTSR33	WSSS	130500		05:07	05:18	05:19
97	FTTH31	VTBB	130500		05:05	-	05:04
98	FTTH32	VTBB	130500		05:05	-	05:04
99	FTTH33	VTBB	130500		05:05	-	05:04
100	FTTH33	VTBB	130500	RRA	05:40	-	05:36
101	FTTM31	YBBN	130700		07:00	07:02	07:14

 Transmitting Time more than 5 minutes