



International Civil Aviation Organization

**THE TENTH MEETING OF ASIA/PACIFIC OPMET MANAGEMENT
TASK FORCE (OPMET/M TF/10)**

Bangkok, Thailand, 17 – 19 April 2012

Agenda Item 4: Management of OPMET exchange

b) RODB backup procedures – contingency trial

**RODB BACKUP PROCEDURE REALTIME EXERCISE
BETWEEN RODB BANGKOK AND RODB SINGAPORE**

(Presented by Thailand)

SUMMARY

This working paper provides the results of the seventh real-time backup exercise conducted by RODB Bangkok and RODB Singapore on 5 April 2012.

1. INTRODUCTION

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

1.2. The trial is carried out by the two RODBs regularly on yearly basis. The first real-time backup test was conducted in January 2006.

1.3. This paper presents the result of the seventh real-time backup exercise conducted by RODB Bangkok and RODB Singapore on 5 April 2012

2. DISCUSSION

2.1. Upon preparation for the seventh backup test, both RODBs agreed to monitor a list of the selected ASIA/PAC and MID OPMET bulletins during the exercise conducted on 5 April 2012 between 0200 and 0800UTC.

2.2. The backup test procedures are summarized as follow:

- It was agreed that the channel for activation of the backup test would be via facsimile and e-mail;
- On 5 April 2012 Singapore initiated the backup procedure at 0150UTC;

- Within ten minutes, Bangkok took over the switching at 0200UTC to monitor data traffic; and
- Once the recovery phase commence – Bangkok stopped the transmission at 0800UTC.

2.3. The result of the backup test is follow:

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	Ability of Transmission	Number of bulletins not successfully routed by RODB Bangkok	Bulletin Transit time recorded at RODB Bangkok		
						Max	Min	Average
SA bulletins	487	482	482	98.97%	5	3	1	1
FT bulletins	80	80	80	100.00%	0	3	1	1
Total	567	562	562	99.11%	5			

2.4. As seen in the table above, RODB Bangkok was able to transmit 562 out of 567 METAR and TAF bulletins with average transit time less than 3 minutes. The ability of transmission 99.11%, showing an increase from the last year (96.2%).

2.5. 5 METAR bulletins named SAIN33 VECC Kolkata, India as follows were not successfully routed due to not receive on AFTN.

SAIN33	VECC	050150
SAIN33	VECC	050350
SAIN33	VECC	050450
SAIN33	VECC	050550
SAIN33	VECC	050650

2.6. The table below presents the comparison result with the previous exercises conducted yearly from 2007 through 2012.

Year	2007	2008	2009	2010	2011	2012
RODB Bangkok successfully transmitted	94%	91%	91%	98.3%	96.2%	99.11%

3. ACTION BY THE MEETING

3.1. The meeting is invited to discuss as follow:

- a) Seek further improvement, if required

ATTACHMENT TO THE PAPER

Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 5 April 2012							
METAR Bulletins							
					Recorded by	Recorded by	Recorded by
					WSSS RODB	VTBB RODB	VTBB RODB
					RX Time UTC	RX Time UTC	TX Time UTC
	TAAii	CCCC	YYGGgg	BBB	(hh:mm)	(hh:mm)	(hh:mm)
1	SAAE31	VTBB	050200		02:07		02:06
2	SAAE31	VTBB	050230		02:36		02:36
3	SAAE31	VTBB	050300		03:07		03:06
4	SAAE31	VTBB	050300	RRA	03:10		03:08
5	SAAE31	VTBB	050300	RRB	03:14		03:13
6	SAAE31	VTBB	050230	CCA	03:18		03:17
7	SAAE31	VTBB	050300	CCA	03:18		03:18
8	SAAE31	VTBB	050330		03:36		03:36
9	SAAE31	VTBB	050330	RRA	03:37		03:37
10	SAAE31	VTBB	050330	RRB	03:38		03:38
11	SAAE31	VTBB	050400		04:06		04:06
12	SAAE31	VTBB	050400	RRA	04:09		04:08
13	SAAE31	VTBB	050430		04:36		04:36
14	SAAE31	VTBB	050430	RRA	04:45		04:42
15	SAAE31	VTBB	050500		05:08		05:06
16	SAAE31	VTBB	050500	RRA	05:17		05:16
17	SAAE31	VTBB	050530		05:36		05:36
18	SAAE31	VTBB	050600		06:07		06:06
19	SAAE31	VTBB	050600	RRA	06:23		06:22
20	SAAE31	VTBB	050630		06:36		06:36
21	SAAE31	VTBB	050630	RRA	06:38		06:38
22	SAAE31	VTBB	050630	RRB	06:40		06:40
23	SAAE31	VTBB	050700		07:06		07:06
24	SAAE31	VTBB	050700	RRA	07:07		07:07
25	SAAE31	VTBB	050700	RRB	07:10		07:09
26	SAAE31	VTBB	050700	CCA	07:21		07:21
27	SAAE31	VTBB	050730		07:36		07:36
28	SAAE32	VTBB	050200		02:08		02:07
29	SAAE32	VTBB	050230		02:37		02:36
30	SAAE32	VTBB	050300		03:22		03:22
31	SAAE32	VTBB	050400		04:07		04:07
32	SAAE32	VTBB	050700		07:10		07:09
33	SAAU31	YBBN	050200		02:10	02:10	02:10
34	SAAU31	YBBN	050230		02:40	02:40	02:40
35	SAAU31	YBBN	050300		03:10	03:10	03:11
36	SAAU31	YBBN	050330		03:40	03:40	03:40
37	SAAU31	YBBN	050400		04:10	04:10	04:11
38	SAAU31	YBBN	050430		04:40	04:40	04:40
39	SAAU31	YBBN	050500		05:10	05:10	05:11
40	SAAU31	YBBN	050530		05:40	05:40	05:40
41	SAAU31	YBBN	050600		06:10	06:10	06:11

42	SAAU31	YBBN	050630		06:40	06:40	06:42
43	SAAU31	YBBN	050700		07:10	07:10	07:11
44	SAAU31	YBBN	050730		07:40	07:40	07:41
45	SAAU31	YBBN	050730	RRA	07:50	07:50	07:50
46	SAAU32	YBBN	050200		02:10	02:10	02:12
47	SAAU32	YBBN	050230		02:40	02:40	02:40
48	SAAU32	YBBN	050300		03:10	03:10	03:11
49	SAAU32	YBBN	050330		03:40	03:40	03:41
50	SAAU32	YBBN	050400		04:10	04:10	04:11
51	SAAU32	YBBN	050430		04:40	04:40	04:42
52	SAAU32	YBBN	050500		05:10	05:10	05:11
53	SAAU32	YBBN	050530		05:40	05:40	05:40
54	SAAU32	YBBN	050600		06:10	06:10	06:11
55	SAAU32	YBBN	050630		06:40	06:40	06:40
56	SAAU32	YBBN	050700		07:10	07:10	07:11
57	SAAU32	YBBN	050730		07:40	07:40	07:40
58	SABN31	OBBI	050200		02:05	02:05	02:06
59	SABN31	OBBI	050300		03:01	03:01	03:03
60	SABN31	OBBI	050400		04:00	04:00	04:02
61	SABN31	OBBI	050500		05:00	05:00	05:03
62	SABN31	OBBI	050600		06:10	06:10	06:11
63	SABN31	OBBI	050700		07:10	07:10	07:11
64	SABN31	OBBI	050600	RRA	07:54	07:54	07:54
65	SABN32	OBBI	050200		02:06	02:05	02:06
66	SABN32	OBBI	050300		03:06	03:06	03:06
67	SABN32	OBBI	050400		04:10	04:10	04:11
68	SABN32	OBBI	050400	RRA	04:12	04:12	04:13
69	SABN32	OBBI	050500		05:06	05:06	05:07
70	SABN32	OBBI	050600		06:06	06:05	06:06
71	SABN32	OBBI	050700		07:10	07:10	07:11
72	SABN32	OBBI	050700	RRA	07:14	07:14	07:15
73	SACI31	ZBBB	050200		02:07	02:07	02:08
74	SACI31	ZBBB	050230		02:37	02:37	02:38
75	SACI31	ZBBB	050300		03:07	03:07	03:08
76	SACI31	ZBBB	050330		03:37	03:37	03:38
77	SACI31	ZBBB	050400		04:07	04:07	04:08
78	SACI31	ZBBB	050430		04:37	04:37	04:38
79	SACI31	ZBBB	050500		05:07	05:07	05:08
80	SACI31	ZBBB	050530		05:37	05:37	05:38
81	SACI31	ZBBB	050600		06:08	06:07	06:08
82	SACI31	ZBBB	050630		06:37	06:37	06:38
83	SACI31	ZBBB	050700		07:07	07:07	07:08
84	SACI31	ZBBB	050730		07:37	07:37	07:38
85	SACI32	ZBBB	050200		02:08	02:07	02:08
86	SACI32	ZBBB	050300		03:08	03:07	03:09
87	SACI32	ZBBB	050400		04:08	04:08	04:08
88	SACI32	ZBBB	050500		05:07	05:08	05:08
89	SACI32	ZBBB	050600		06:08	06:08	06:08
90	SACI32	ZBBB	050700		07:07	07:08	07:08
91	SACI41	ZBBB	050200		02:08	02:08	02:09

92	SACI41	ZBBB	050300		03:08	03:08	03:09
93	SACI41	ZBBB	050400		04:09	04:08	04:09
94	SACI41	ZBBB	050500		05:08	05:08	05:09
95	SACI41	ZBBB	050600		06:08	06:08	06:09
96	SACI41	ZBBB	050700		07:08	07:08	07:09
97	SAHK31	VHHH	050200		02:03	02:02	02:03
98	SAHK31	VHHH	050230		02:31	02:31	02:33
99	SAHK31	VHHH	050300		03:03	03:02	03:03
100	SAHK31	VHHH	050330		03:31	03:31	03:33
101	SAHK31	VHHH	050400		04:03	04:02	04:03
102	SAHK31	VHHH	050430		04:32	04:31	04:33
103	SAHK31	VHHH	050500		05:11	05:10	05:11
104	SAHK31	VHHH	050530		05:33	05:31	05:33
105	SAHK31	VHHH	050600		06:14	06:10	06:11
106	SAHK31	VHHH	050600	RRA	06:16	06:15	06:16
107	SAHK31	VHHH	050630		06:31	06:31	06:33
108	SAHK31	VHHH	050700		07:05	07:03	07:04
109	SAHK31	VHHH	050730		07:32	07:31	07:33
110	SAID31	WIII	050200		02:10	02:10	02:10
111	SAID31	WIII	050230		02:40	02:40	02:40
112	SAID31	WIII	050300		03:10	03:10	03:11
113	SAID31	WIII	050330		03:40	03:40	03:41
114	SAID31	WIII	050400		04:10	04:10	04:11
115	SAID31	WIII	050430		04:40	04:40	04:40
116	SAID31	WIII	050500		05:10	05:10	05:11
117	SAID31	WIII	050500		05:16	05:16	05:17
118	SAID31	WIII	050530		05:40	05:40	05:41
119	SAID31	WIII	050600		06:10	06:10	06:11
120	SAID31	WIII	050630		06:40	06:40	06:40
121	SAID31	WIII	050700		07:10	07:10	07:11
122	SAID31	WIII	050700		07:14	07:14	07:15
123	SAID31	WIII	050730		07:40	07:40	07:40
124	SAID31	WIII	050730		07:58	07:58	07:59
125	SAID32	WIII	050200		02:10	02:10	02:11
126	SAID32	WIII	050230		02:40	02:40	02:41
127	SAID32	WIII	050300		03:10	03:10	03:11
128	SAID32	WIII	050330		03:40	03:40	03:41
129	SAID32	WIII	050400		04:10	04:10	04:11
130	SAID32	WIII	050430		04:40	04:40	04:40
131	SAID32	WIII	050500		05:10	05:10	05:11
132	SAID32	WIII	050530		05:40	05:40	05:41
133	SAID32	WIII	050600		06:10	06:10	06:11
134	SAID32	WIII	050630		06:40	06:40	06:40
135	SAID32	WIII	050700		07:10	07:10	07:11
136	SAID32	WIII	050700		07:15	07:15	07:16
137	SAID32	WIII	050730		07:40	07:40	07:40
138	SAID33	WIII	050200		02:10	02:10	02:11
139	SAID33	WIII	050230		02:40	02:40	02:41
140	SAID33	WIII	050300		03:10	03:10	03:11
141	SAID33	WIII	050330		03:40	03:40	03:41

} Different Report

} Different Report

} Different Report

} Different Report

142	SAID33	WIII	050400		04:10	04:10	04:11
143	SAID33	WIII	050430		04:40	04:40	04:41
144	SAID33	WIII	050500		05:10	05:10	05:11
145	SAID33	WIII	050530		05:40	05:40	05:41
146	SAID33	WIII	050600		06:10	06:10	06:11
147	SAID33	WIII	050630		06:40	06:40	06:41
148	SAID33	WIII	050700		07:10	07:10	07:11
149	SAID33	WIII	050730		07:40	07:40	07:40
150	SAIN31	VABB	042240	RRB	02:21	02:21	02:22
151	SAIN31	VABB	050210		02:22	02:22	02:23
152	SAIN31	VABB	050240		02:52	02:52	02:53
153	SAIN31	VABB	050240	RRA	03:09	03:09	03:11
154	SAIN31	VABB	050310		03:22	03:22	03:23
155	SAIN31	VABB	050340		03:52	03:52	03:53
156	SAIN31	VABB	050410		04:22	04:22	04:23
157	SAIN31	VABB	050410	CCA	04:48	04:48	04:48
158	SAIN31	VABB	050440		04:52	04:52	04:53
159	SAIN31	VABB	050440	RRA	04:53	04:53	04:53
160	SAIN31	VABB	050440	RRB	04:56	04:56	04:56
161	SAIN31	VABB	050510		05:22	05:22	05:23
162	SAIN31	VABB	050510	RRA	05:27	05:27	05:28
163	SAIN31	VABB	050510	RRB	05:34	05:34	05:35
164	SAIN31	VABB	050540		05:52	05:52	05:53
165	SAIN31	VABB	050610		06:22	06:22	06:23
166	SAIN31	VABB	050640		06:52	06:52	06:53
167	SAIN31	VABB	050640	RRA	06:53	06:53	06:54
168	SAIN31	VABB	050710		07:22	07:22	07:23
169	SAIN31	VABB	050740		07:53	07:53	07:53
170	SAIN32	VIDP	050200		02:15	02:15	02:15
171	SAIN32	VIDP	050230		02:44	02:44	02:45
172	SAIN32	VIDP	050300		03:15	03:15	03:15
173	SAIN32	VIDP	050300	RRA	03:23	03:23	03:23
174	SAIN32	VIDP	050330		03:47	03:47	03:48
175	SAIN32	VIDP	050330	RRA	03:51	03:51	03:52
176	SAIN32	VIDP	050400		04:18	04:18	04:19
177	SAIN32	VIDP	050430		04:44	04:44	04:45
178	SAIN32	VIDP	050430	RRA	04:46	04:46	04:47
179	SAIN32	VIDP	050500		05:15	05:15	05:16
180	SAIN32	VIDP	050530		05:45	05:45	05:46
181	SAIN32	VIDP	050600		06:15	06:15	06:16
182	SAIN32	VIDP	050630		06:45	06:45	06:46
183	SAIN32	VIDP	050700		07:15	07:15	07:16
184	SAIN32	VIDP	050730		07:45	07:45	07:46
185	SAIR31	OIII	050200		02:04	02:03	02:04
186	SAIR31	OIII	050200	RRA	02:10	02:09	02:11
187	SAIR31	OIII	050230		02:33	02:33	02:34
188	SAIR31	OIII	050230	RRA	02:36	02:36	02:37
189	SAIR31	OIII	050300		03:04	03:03	03:04
190	SAIR31	OIII	050300	RRA	03:05	03:04	03:05
191	SAIR31	OIII	050330		03:33	03:33	03:34

192	SAIR31	OIII	050400		04:05	04:03	04:04
193	SAIR31	OIII	050430		04:33	04:33	04:34
194	SAIR31	OIII	050430	RRA	04:33	04:33	04:34
195	SAIR31	OIII	050430	CCA	04:33	04:33	04:34
196	SAIR31	OIII	050500		05:05	05:03	05:04
197	SAIR31	OIII	050500	RRA	05:06	05:05	05:06
198	SAIR31	OIII	050530		05:33	05:33	05:34
199	SAIR31	OIII	050600		06:04	06:03	06:04
200	SAIR31	OIII	050630		06:33	06:33	06:34
201	SAIR31	OIII	050700		07:04	07:03	07:04
202	SAIR31	OIII	050700	RRA	07:05	07:05	07:06
203	SAIR31	OIII	050730		07:33	07:33	07:34
204	SAIR31	OIII	050730	RRA	07:34	07:34	07:35
205	SAIR31	OIII	050730	RRB	07:40	07:40	07:41
206	SAIR31	OIII	050800		08:04	08:03	08:04
207	SAIR32	OIII	050200		02:04	02:03	02:04
208	SAIR32	OIII	050230		02:33	02:33	02:34
209	SAIR32	OIII	050300		03:04	03:03	03:04
210	SAIR32	OIII	050330		03:33	03:33	03:34
211	SAIR32	OIII	050330	RRA	03:35	03:35	03:36
212	SAIR32	OIII	050400		04:05	04:03	04:04
213	SAIR32	OIII	050400	RRA	04:05	04:04	04:05
214	SAIR32	OIII	050430	RRA	04:33	04:33	04:34
215	SAIR32	OIII	050430		04:33	04:33	04:34
216	SAIR32	OIII	050430	RRB	04:40	04:39	04:41
217	SAIR32	OIII	050500		05:05	05:03	05:04
218	SAIR32	OIII	050500	RRA	05:07	05:07	05:08
219	SAIR32	OIII	050530		05:33	05:33	05:34
220	SAIR32	OIII	050530	RRA	05:39	05:39	05:39
221	SAIR32	OIII	050600		06:04	06:03	06:04
222	SAIR32	OIII	050630		06:33	06:33	06:34
223	SAIR32	OIII	050630	RRA	06:34	06:34	06:35
224	SAIR32	OIII	050630	RRB	06:35	06:35	06:36
225	SAIR32	OIII	050700		07:04	07:03	07:04
226	SAIR32	OIII	050730		07:33	07:33	07:34
227	SAIR32	OIII	050730	RRB	07:34	07:34	07:35
228	SAIR32	OIII	050730	RRA	07:34	07:34	07:35
229	SAIR32	OIII	050730	RRC	07:38	07:38	07:38
230	SAIR33	OIII	050200	RRA	02:05	02:05	02:05
231	SAIR33	OIII	050200		02:04	02:03	02:04
232	SAIR33	OIII	050200	RRB	02:15	02:15	02:16
233	SAIR33	OIII	050230		02:33	02:33	02:34
234	SAIR33	OIII	050200	RRC	02:58	02:57	02:59
235	SAIR33	OIII	050300		03:04	03:03	03:04
236	SAIR33	OIII	050300	RRA	03:07	03:07	03:07
237	SAIR33	OIII	050300	RRB	03:13	03:13	03:14
238	SAIR33	OIII	050330		03:33	03:33	03:34
239	SAIR33	OIII	050400		04:05	04:03	04:04
240	SAIR33	OIII	050400	RRA	04:09	04:09	04:09
241	SAIR33	OIII	050400	RRB	04:15	04:15	04:16

242	SAIR33	OIII	050430		04:33	04:33	04:34
243	SAIR33	OIII	050500		05:05	05:03	05:04
244	SAIR33	OIII	050500	RRA	05:09	05:09	05:09
245	SAIR33	OIII	050500	RRB	05:15	05:15	05:16
246	SAIR33	OIII	050530		05:33	05:33	05:34
247	SAIR33	OIII	050600		06:04	06:03	06:04
248	SAIR33	OIII	050600	RRA	06:25	06:25	06:26
249	SAIR33	OIII	050630		06:33	06:33	06:34
250	SAIR33	OIII	050700		07:04	07:03	07:04
251	SAIR33	OIII	050700	RRA	07:05	07:05	07:06
252	SAIR33	OIII	050730		07:33	07:33	07:34
253	SAIR34	OIII	050200		02:04	02:03	02:04
254	SAIR34	OIII	050200	RRA	02:05	02:04	02:05
255	SAIR34	OIII	050300		03:05	03:04	03:05
256	SAIR34	OIII	050400		04:05	04:03	04:04
257	SAIR34	OIII	050500		05:05	05:03	05:04
258	SAIR34	OIII	050600		06:04	06:03	06:04
259	SAIR34	OIII	050700		07:04	07:03	07:04
260	SAIR34	OIII	050700	RRA	07:05	07:04	07:05
261	SAIR35	OIII	050200		02:04	02:03	02:04
262	SAIR35	OIII	050200	RRA	02:05	02:04	02:05
263	SAIR35	OIII	050300		03:05	03:04	03:05
264	SAIR35	OIII	050400		04:05	04:03	04:04
265	SAIR35	OIII	050400	RRA	04:11	04:11	04:12
266	SAIR35	OIII	050500		05:05	05:03	05:04
267	SAIR35	OIII	050500	RRA	05:12	05:12	05:13
268	SAIR35	OIII	050600		06:05	06:03	06:04
269	SAIR35	OIII	050700		07:04	07:03	07:04
270	SAIR36	OIII	050200		02:04	02:03	02:04
271	SAIR36	OIII	050200	RRA	02:05	02:04	02:05
272	SAIR36	OIII	050300		03:05	03:04	03:05
273	SAIR36	OIII	050400		04:05	04:04	04:04
274	SAIR36	OIII	050500		05:05	05:03	05:04
275	SAIR36	OIII	050500	RRA	05:05	05:04	05:05
276	SAIR36	OIII	050600		06:05	06:03	06:04
277	SAIR36	OIII	050700		07:04	07:03	07:04
278	SAIR37	OIII	050200		02:04	02:03	02:04
279	SAIR37	OIII	050300		03:05	03:04	03:05
280	SAIR37	OIII	050400		04:05	04:04	04:05
281	SAIR37	OIII	050500		05:05	05:03	05:04
282	SAIR37	OIII	050600		06:05	06:03	06:04
283	SAIR37	OIII	050700		07:04	07:03	07:04
284	SAJP31	RJTD	050200		02:06	02:06	02:07
285	SAJP31	RJTD	050300		03:06	03:06	03:07
286	SAJP31	RJTD	050400		04:06	04:06	04:07
287	SAJP31	RJTD	050500		05:06	05:06	05:07
288	SAJP31	RJTD	050600		06:07	06:06	06:07
289	SAJP31	RJTD	050700		07:06	07:06	07:07
290	SAJP32	RJTD	050200	RRA	02:06	02:07	02:07
291	SAJP32	RJTD	050200		02:06	02:07	02:07

292	SAJP32	RJTD	050300		03:06	03:06	03:07
293	SAJP32	RJTD	050300	RRA	03:06	03:06	03:07
294	SAJP32	RJTD	050400	RRA	04:06	04:07	04:07
295	SAJP32	RJTD	050400		04:06	04:07	04:07
296	SAJP32	RJTD	050500		05:06	05:07	05:07
297	SAJP32	RJTD	050500	RRA	05:06	05:07	05:08
298	SAJP32	RJTD	050600		06:07	06:07	06:07
299	SAJP32	RJTD	050600	RRA	06:07	06:07	06:07
300	SAJP32	RJTD	050700	RRA	07:06	07:06	07:07
301	SAJP32	RJTD	050700		07:06	07:06	07:07
302	SAJP38	RJTD	050200	RRA	02:07	02:07	02:07
303	SAJP38	RJTD	050200		02:07	02:07	02:07
304	SAJP38	RJTD	050200	RRB	02:18	02:18	02:18
305	SAJP38	RJTD	050300	RRA	03:07	03:07	03:08
306	SAJP38	RJTD	050300		03:07	03:07	03:08
307	SAJP38	RJTD	050300	RRB	03:18	03:18	03:18
308	SAJP38	RJTD	050400		04:07	04:07	04:07
309	SAJP38	RJTD	050400	RRA	04:07	04:07	04:07
310	SAJP38	RJTD	050400	RRB	04:18	04:18	04:18
311	SAJP38	RJTD	050500		05:07	05:07	05:08
312	SAJP38	RJTD	050500	RRA	05:07	05:07	05:08
313	SAJP38	RJTD	050500	RRB	05:18	05:18	05:18
314	SAJP38	RJTD	050600		06:07	06:07	06:07
315	SAJP38	RJTD	050600	RRA	06:07	06:07	06:08
316	SAJP38	RJTD	050600	RRB	06:18	06:18	06:18
317	SAJP38	RJTD	050700		07:07	07:07	07:07
318	SAJP38	RJTD	050700	RRA	07:07	07:07	07:07
319	SAJP38	RJTD	050700	RRB	07:18	07:18	07:18
320	SAKO31	RKSI	050200		02:05	02:04	02:05
321	SAKO31	RKSI	050230		02:34	02:34	02:34
322	SAKO31	RKSI	050300		03:05	03:04	03:06
323	SAKO31	RKSI	050330		03:34	03:34	03:34
324	SAKO31	RKSI	050400		04:05	04:04	04:05
325	SAKO31	RKSI	050430		04:34	04:34	04:34
326	SAKO31	RKSI	050500		05:05	05:04	05:05
327	SAKO31	RKSI	050530		05:34	05:34	05:34
328	SAKO31	RKSI	050600		06:05	06:04	06:05
329	SAKO31	RKSI	050630		06:34	06:34	06:35
330	SAKO31	RKSI	050700		07:05	07:04	07:04
331	SAKO31	RKSI	050730		07:34	07:34	07:34
332	SAMS31	WMKK	050200		02:08	02:08	02:09
333	SAMS31	WMKK	050230		02:38	02:38	02:38
334	SAMS31	WMKK	050300		03:08	03:08	03:09
335	SAMS31	WMKK	050330		03:38	03:38	03:38
336	SAMS31	WMKK	050400		04:09	04:08	04:08
337	SAMS31	WMKK	050430		04:38	04:38	04:38
338	SAMS31	WMKK	050500		05:08	05:08	05:09
339	SAMS31	WMKK	050530		05:38	05:38	05:38
340	SAMS31	WMKK	050600		06:08	06:08	06:08
341	SAMS31	WMKK	050600	RRA	06:12	06:12	06:13

342	SAMS31	WMKK	050630		06:38	06:38	06:38
343	SAMS31	WMKK	050700		07:08	07:08	07:09
344	SAMS31	WMKK	050730		07:38	07:38	07:38
345	SAMS38	WMKK	050200		02:09	02:08	02:09
346	SAMS38	WMKK	050300		03:08	03:08	03:09
347	SAMS38	WMKK	050400		04:09	04:08	04:09
348	SAMS38	WMKK	050400	CCA	04:20	04:20	04:20
349	SAMS38	WMKK	050500		05:09	05:08	05:10
350	SAMS38	WMKK	050600		06:09	06:08	06:09
351	SAMS38	WMKK	050700		07:09	07:08	07:09
352	SANG31	YBBN	050200		02:10	02:10	02:11
353	SANG31	YBBN	050200	RRA	02:20	02:20	02:20
354	SANG31	YBBN	050300		03:10	03:10	03:11
355	SANG31	YBBN	050300	RRA	03:20	03:20	03:20
356	SANG31	YBBN	050400		04:10	04:10	04:11
357	SANG31	YBBN	050400	RRA	04:20	04:20	04:20
358	SANG31	YBBN	050500		05:10	05:10	05:12
359	SANG31	YBBN	050500	RRA	05:20	05:20	05:20
360	SANG31	YBBN	050600		06:10	06:10	06:11
361	SANG31	YBBN	050600	RRA	06:20	06:20	06:21
362	SANG31	YBBN	050700		07:10	07:10	07:11
363	SANZ31	NZKL	050200		02:07	02:07	02:07
364	SANZ31	NZKL	050300		03:08	03:08	03:09
365	SANZ31	NZKL	050400		04:07	04:07	04:09
366	SANZ31	NZKL	050500		05:08	05:08	05:10
367	SANZ31	NZKL	050600		06:08	06:07	06:09
368	SANZ31	NZKL	050700		07:07	07:07	07:09
369	SAPK31	OPKC	050200		01:59	01:59	02:02
370	SAPK31	OPKC	050200	RRA	02:01	02:00	02:03
371	SAPK31	OPKC	050230		02:29	02:29	02:29
372	SAPK31	OPKC	050230	RRA	02:38	02:38	02:38
373	SAPK31	OPKC	050300		02:59	02:59	03:02
374	SAPK31	OPKC	050300	RRA	03:00	03:00	03:02
375	SAPK31	OPKC	050300	RRB	03:04	03:03	03:04
376	SAPK31	OPKC	050300	RRC	03:05	03:04	03:06
377	SAPK31	OPKC	050330		03:29	03:29	03:29
378	SAPK31	OPKC	050330	RRA	03:33	03:32	03:33
379	SAPK31	OPKC	050400		03:59	03:59	04:02
380	SAPK31	OPKC	050430		04:29	04:29	04:29
381	SAPK31	OPKC	050430	RRA	04:30	04:30	04:32
382	SAPK31	OPKC	050500	RRA	05:00	05:00	05:02
383	SAPK31	OPKC	050500		04:59	04:59	05:02
384	SAPK31	OPKC	050500	RRB	05:02	05:01	05:03
385	SAPK31	OPKC	050530		05:29	05:29	05:32
386	SAPK31	OPKC	050600		05:59	05:59	06:00
387	SAPK31	OPKC	050630		06:29	06:29	06:29
388	SAPK31	OPKC	050700		06:59	06:59	07:02
389	SAPK31	OPKC	050700	RRA	07:04	07:02	07:03
390	SAPK31	OPKC	050730		07:29	07:29	07:29
391	SAPK31	OPKC	050730	RRA	07:30	07:30	07:32

392	SAPK31	OPKC	050800		07:59	07:59	08:00
393	SAPK31	OPKC	050800	RRA	08:00	08:00	08:01
394	SAPS31	NFFN	050200		02:15	02:15	02:16
395	SAPS31	NFFN	050300		03:15	03:15	03:16
396	SAPS31	NFFN	050400		04:15	04:15	04:16
397	SAPS31	NFFN	050500		05:15	05:15	05:16
398	SAPS31	NFFN	050600		06:15	06:15	06:16
399	SAPS31	NFFN	050700		07:15	07:15	07:16
400	SAPS32	NFFN	050200		02:15	02:15	02:15
401	SAPS32	NFFN	050300		03:15	03:15	03:15
402	SAPS32	NFFN	050400		04:15	04:15	04:16
403	SAPS32	NFFN	050500		05:15	05:15	05:16
404	SAPS32	NFFN	050600		06:15	06:15	06:15
405	SAPS32	NFFN	050700		07:15	07:15	07:15
406	SASB31	VCCC	050210		02:20	02:20	02:20
407	SASB31	VCCC	050310		03:19	03:19	03:20
408	SASB31	VCCC	050410		04:19	04:19	04:20
409	SASB31	VCCC	050510		05:19	05:19	05:20
410	SASB31	VCCC	050610		06:19	06:19	06:20
411	SASB31	VCCC	050710		07:19	07:19	07:20
412	SASD31	OEJD	050200		02:03	02:00	02:02
413	SASD31	OEJD	050300		03:03	03:00	03:03
414	SASD31	OEJD	050100	RRB	03:09	03:05	03:06
415	SASD31	OEJD	050300	RRA	03:10	03:05	03:06
416	SASD31	OEJD	050000	RRB	03:09	03:05	03:06
417	SASD31	OEJD	050200	RRA	03:10	03:05	03:06
418	SASD31	OEJD	041700	CCA	03:13	03:10	03:11
419	SASD31	OEJD	050400		04:04	04:10	04:03
420	SASD31	OEJD	050400	RRA	04:08	04:05	04:06
421	SASD31	OEJD	050500		05:06	05:00	05:03
422	SASD31	OEJD	050500	RRA	05:11	05:05	05:07
423	SASD31	OEJD	050600		06:02	06:00	06:02
424	SASD31	OEJD	050600	RRA	06:08	06:05	06:05
425	SASD31	OEJD	050600	RRB	06:31	06:30	06:32
426	SASD31	OEJD	050700		07:03	07:00	07:02
427	SASD31	OEJD	050800		08:03	08:00	08:02
428	SATH31	VTBB	050200		02:07		02:06
429	SATH31	VTBB	050200	RRA	02:09		02:08
430	SATH31	VTBB	050300		03:07		03:06
431	SATH31	VTBB	050300	CCA	03:11		03:10
432	SATH31	VTBB	050400		04:07		04:06
433	SATH31	VTBB	050400	RRA	04:12		04:12
434	SATH31	VTBB	050500		05:08		05:07
435	SATH31	VTBB	050500	RRA	05:09		05:07
436	SATH31	VTBB	050500	RRB	05:10		05:08
437	SATH31	VTBB	050500	RRC	05:21		05:21
438	SATH31	VTBB	050500	RRD	05:34		05:32
439	SATH31	VTBB	050500	RRE	05:36		05:36
440	SATH31	VTBB	050600		06:07		06:06
441	SATH31	VTBB	050600	RRA	06:09		06:08

442	SATH31	VTBB	050600	RRB	06:10		06:08
443	SATH31	VTBB	050600	RRC	06:11		06:09
444	SATH31	VTBB	050600	CCA	06:24		06:23
445	SATH31	VTBB	050700		07:07		07:06
446	SATH31	VTBB	050700	RRA	07:11		07:11
447	SATH32	VTBB	050200		02:07		02:07
448	SATH32	VTBB	050200	RRA	02:09		02:09
449	SATH32	VTBB	050300		03:07		03:06
450	SATH32	VTBB	050300	RRA	03:08		03:07
451	SATH32	VTBB	050400		04:07		04:06
452	SATH32	VTBB	050400	RRA	04:07		04:07
453	SATH32	VTBB	050400	RRB	04:07		04:07
454	SATH32	VTBB	050400	RRC	04:08		04:07
455	SATH32	VTBB	050500		05:08		05:07
456	SATH32	VTBB	050500	RRA	05:09		05:08
457	SATH32	VTBB	050500	RRB	05:15		05:13
458	SATH32	VTBB	050600		06:07		06:07
459	SATH32	VTBB	050600	RRA	06:37		06:36
460	SATH32	VTBB	050700		07:07		07:06
461	SATH32	VTBB	050700	RRA	07:08		07:08
462	SATH32	VTBB	050700	RRB	07:14		07:14
463	SATH33	VTBB	050200		02:07		02:07
464	SATH33	VTBB	050200	RRA	02:09		02:08
465	SATH33	VTBB	050200	RRB	02:24		02:24
466	SATH33	VTBB	050200	RRC	02:28		02:28
467	SATH33	VTBB	050230	RRD	02:32		02:32
468	SATH33	VTBB	050300		03:08		03:07
469	SATH33	VTBB	050300	RRA	03:10		03:09
470	SATH33	VTBB	050300	RRB	03:11		03:09
471	SATH33	VTBB	050300	RRC	03:14		03:13
472	SATH33	VTBB	050400		04:07		04:07
473	SATH33	VTBB	050400	RRA	04:11		04:10
474	SATH33	VTBB	050500		05:09		05:07
475	SATH33	VTBB	050500	RRA	05:15		05:12
476	SATH33	VTBB	050600		06:07		06:07
477	SATH33	VTBB	050600	RRA	06:14		06:10
478	SATH33	VTBB	050400	RRB	06:19		06:19
479	SATH33	VTBB	050600	CCA	06:22		06:22
480	SATH33	VTBB	050700		07:07		07:07
481	SATH33	VTBB	050700	RRA	07:19		07:19
482	SATH33	VTBB	050700	RRB	07:34		07:33
483	SAIN33	VECC	050150		02:06	Not received	-
484	SAIN33	VECC	050350		04:08	Not received	-
485	SAIN33	VECC	050450		05:06	Not received	-
486	SAIN33	VECC	050550		06:04	Not received	-
487	SAIN33	VECC	050650		07:08	Not received	-

Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 5 April 2012							
TAF Bulletins							
					Recorded by	Recorded by	Recorded by
					WSSS RODB	VTBB RODB	VTBB RODB
					RX Time UTC	RX Time UTC	TX Time UTC
	TAAii	CCCC	YYGGgg	BBB	(hh:mm)	(hh:mm)	(hh:mm)
1	FTAE31	VTBB	050500		05:05		05:02
2	FTAE31	VTBB	050500	RRA	05:12		05:11
3	FTAE31	VTBB	050500	RRB	05:19		05:19
4	FTAE32	VTBB	050500		05:02		05:01
5	FTAE33	VTBB	050500		05:04		05:02
6	FTAU31	YBBN	050400	AAA	04:53	04:53	04:53
7	FTAU31	YBBN	050500		05:00	05:00	05:02
8	FTAU32	YBBN	050300	AAB	03:58	03:58	03:59
9	FTAU32	YBBN	050400	AAC	04:57	04:57	04:58
10	FTAU32	YBBN	050500		05:00	05:00	05:03
11	FTAU32	YBBN	050500	RRA	05:10	05:10	05:12
12	FTAU33	YBBN	050200	AAB	02:16	02:16	02:17
13	FTAU33	YBBN	050300	RRB	03:00	03:00	03:02
14	FTAU33	YBBN	050300	AAC	03:56	03:56	03:57
15	FTAU33	YBBN	050400	AAD	04:09	04:08	04:09
16	FTAU33	YBBN	050400	AAE	04:13	04:13	04:14
17	FTAU33	YBBN	050400	AAF	04:44	04:44	04:45
18	FTAU33	YBBN	050500	PZB	05:00	05:00	05:03
19	FTAU33	YBBN	050500	PAA	05:00	05:00	05:03
20	FTAU34	YBBN	050200	AAA	02:51	02:51	02:52
21	FTAU34	YBBN	050500		05:00	05:00	05:03
22	FTAU34	YBBN	050500	RRA	05:10	05:10	05:12
23	FTAU35	YBBN	050700		07:00	07:00	07:02
24	FTBN31	OBBI	050500		05:18	05:18	05:18
25	FTBN32	OBBI	050500		05:19	05:19	05:20
26	FTBN32	OBBI	050500	RRA	05:21	05:21	05:22
27	FTCI31	ZBBB	050500		05:05	05:10	05:10
28	FTCI32	ZBBB	050500		05:05	05:09	05:11
29	FTCI41	ZBBB	050340	AAA	03:43	03:43	03:44
30	FTCI41	ZBBB	050340	AAA	03:43	03:43	03:44
31	FTCI41	ZBBB	050500		05:06	05:05	05:06
32	FTHK31	VHHH	042300	AAB	03:52	03:52	03:52
33	FTHK31	VHHH	042300	AAC	04:16	04:16	04:16
34	FTHK31	VHHH	050500	RRA	05:00	05:00	05:00
35	FTHK31	VHHH	050500		05:00	05:03	05:03
36	FTIN31	VABB	050300	RRA	05:05	05:04	05:04
37	FTIN31	VABB	050300	RRB	05:05	05:04	05:04
38	FTIN32	VABB	050300		05:05	05:04	05:04
39	FTIR31	OIII	050500		05:23	05:23	05:23
40	FTIR32	OIII	050500		05:23	05:23	05:24
41	FTJP31	RJTD	050200	RRA	02:57	02:57	02:58
42	FTJP31	RJTD	050200		02:57	02:57	02:58

43	FTJP31	RJTD	050200	AAA	05:05	05:04	05:05
44	FTJP31	RJTD	050200	AAB	05:41	05:41	05:41
45	FTJP32	RJTD	050200		02:57	02:57	02:59
46	FTJP32	RJTD	050200	RRA	02:57	02:57	02:59
47	FTJP32	RJTD	050200	AAA	03:43	03:43	03:44
48	FTJP32	RJTD	050200	AAB	04:11	04:12	04:13
49	FTJP32	RJTD	050200	AAC	05:15	05:15	05:16
50	FTJP32	RJTD	050200	AAD	05:56	05:56	
51	FTJP32	RJTD	050200	AAE	07:13	07:13	07:14
52	FTJP38	RJTD	050200	RRB	02:58	02:58	02:59
53	FTJP38	RJTD	050200		02:57	02:58	02:59
54	FTJP38	RJTD	050200	RRA	02:58	02:58	02:59
55	FTJP38	RJTD	050200	AAA	03:43	03:43	03:44
56	FTJP38	RJTD	050200	AAB	06:33	06:33	06:34
57	FTJP38	RJTD	050200	AAC	06:34	06:34	06:35
58	FTKO31	RKSI	050240	AAA	02:46	02:47	02:47
59	FTKO31	RKSI	050500		05:06	05:06	05:06
60	FTKO31	RKSI	050500	CCA	05:11	05:13	05:13
61	FTKO31	RKSI	050500	RRA	05:17	05:17	05:17
62	FTNG31	YBBN	050200	RRA	02:15	02:15	02:16
63	FTNG31	YBBN	050400		04:45	04:45	04:45
64	FTNG31	YBBN	050600	RRA	06:55	06:55	06:55
65	FTNZ31	NZKL	050256	AAA	02:56	02:56	02:58
66	FTNZ31	NZKL	050454		04:54	04:54	04:55
67	FTPK31	OPKC	050400		04:05	04:05	04:05
68	FTPS31	NFFN	050500		05:10	05:10	05:11
69	FTPS31	NFFN	050500	RRC	05:14	05:14	05:15
70	FTPS31	NFFN	050500	RRA	05:14	05:14	05:15
71	FTPS31	NFFN	050500	RRB	05:14	05:14	05:15
72	FTSD31	OEJD	050500		05:00	05:00	05:02
73	FTSR31	WSSS	050500		05:06	05:06	05:07
74	FTSR31	WSSS	050500	RRA	05:17	05:17	05:18
75	FTSR31	WSSS	050500	RRB	05:26	05:26	05:27
76	FTSR32	WSSS	050500		05:08	05:08	05:09
77	FTSR33	WSSS	050500		05:10	05:10	05:12
78	FTTH31	VTBB	050500		05:03		05:01
79	FTTH32	VTBB	050500		05:04		05:02
80	FTTH33	VTBB	050500		05:14		05:11
