

*International Civil Aviation Organization***WORKING PAPER**

ICAO

**Eighteenth Meeting of the Meteorological Information
Exchange Working Group (MET/IE WG/18)
and
Tenth Meeting of the Meteorological Services
Working Group (MET/S WG/10)**

Web-conference, 27 to 31 July 2020

Agenda Item 3: Monitoring of meteorological information 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 24 September 2019.

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. For this year RODB Bangkok agreed with RODB Singapore to conduct the annual IROG Back-up Test in September 2019 to avoid the Chinese New Year festival in JAN or FEB.

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

Year	2015	2016	2017	2018	2019
RODB Bangkok Successfully transmitted	100%	97.53%	99.45%	100%	100%

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2. CONCLUSION

2.1 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	497	497	497	100%	0	54	1	0.7
FT bulletins	87	87	87	100%	0	2	1	0.7
Total	584	584	584	100%				

Remark: Duplicated bulletins are excluded from both IROGs

2.2 RODB Bangkok received 497 of METAR bulletins and 87 of TAFOR Bulletins during the backup test.

2.3 RODB Bangkok transmission SA-Bulletins and TAFOR Bulletins to IROG London which the successful transmission percentage to 100%

2.4 In conclusion, IROG Bangkok received and /relayed METAR and TAF bulletins, with average transit time of 0.7 minute, except SA bulletins, namely SAKO31 RCSI 240530 was transmitted > 5 mins. Successful transmission rate compared with 2 last year's score (2018: 100%, 2017: 99.45%)

3. ACTION REQUIRED BY THE MEETING

3.1 The meeting is invited to:

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

Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 24 September 2019

METAR Bulletins

	TTAAii	CCCC	YYGGgg	BBB	RX Time UTC Recorded by WSSS RODB RX Time UTC (hh:mm)	RX Time UTC Recorded by VTBB RODB RX Time UTC (hh:mm)	TX Time UTC Recorded by VTBB RODB TX Time UTC (hh:mm)
1	SAAE31	VTBB	240200		02:06	-	02:05
2	SAAE31	VTBB	240230		02:35	-	02:35
3	SAAE31	VTBB	240300		03:05	-	03:05
4	SAAE31	VTBB	240330		03:35	-	03:34
5	SAAE31	VTBB	240400		04:05	-	04:05
6	SAAE31	VTBB	240430		04:34	-	04:34
7	SAAE31	VTBB	240430	RRA	04:37	-	04:37
8	SAAE31	VTBB	240500		05:06	-	05:06
9	SAAE31	VTBB	240530		05:37	-	05:35
10	SAAE31	VTBB	240600		06:06	-	06:05
11	SAAE31	VTBB	240630		06:35	-	06:35
12	SAAE31	VTBB	240700		07:06	-	07:05
13	SAAE31	VTBB	240730		07:34	-	07:34
14	SAAE32	VTBB	240200		02:06	-	02:05
15	SAAE32	VTBB	240230		02:35	-	02:35
16	SAAE32	VTBB	240300		03:06	-	03:05
17	SAAE32	VTBB	240330		03:35	-	03:35
18	SAAE32	VTBB	240400		04:05	-	04:05
19	SAAE32	VTBB	240430		04:34	-	04:34
20	SAAE32	VTBB	240430	RRA	04:35	-	04:35
21	SAAE32	VTBB	240500		05:07	-	05:06
22	SAAE32	VTBB	240500	RRA	05:14	-	05:14
23	SAAE32	VTBB	240530		05:37	-	05:36
24	SAAE32	VTBB	240600		06:06	-	06:05
25	SAAE32	VTBB	240630		06:35	-	06:35
26	SAAE32	VTBB	240700		07:06	-	07:05
27	SAAE32	VTBB	240730		07:35	-	07:35
28	SAAE33	VTBB	240200		02:06	-	02:05
29	SAAE33	VTBB	240300		03:05	-	03:05
30	SAAE33	VTBB	240400		04:05	-	04:04
31	SAAE33	VTBB	240500		05:06	-	05:05
32	SAAE33	VTBB	240600		06:06	-	06:05
33	SAAE33	VTBB	240700		07:05	-	07:05
34	SAAE34	VTBB	240200		02:06	-	02:05
35	SAAE34	VTBB	240230		02:35	-	02:35
36	SAAE34	VTBB	240300		03:05	-	03:05
37	SAAE34	VTBB	240330		03:35	-	03:35
38	SAAE34	VTBB	240330	RRA	03:36	-	03:36
39	SAAE34	VTBB	240400	:	04:05	-	04:05
40	SAAE34	VTBB	240400	RRA	04:17	-	04:17
41	SAAE34	VTBB	240430		04:34	-	04:34
42	SAAE34	VTBB	240500		05:07	-	05:06
43	SAAE34	VTBB	240530		05:37	-	05:35
44	SAAE34	VTBB	240530	RRA	05:37	-	05:36
45	SAAE34	VTBB	240600		06:06	-	06:05
46	SAAE34	VTBB	240630		06:35	-	06:35
47	SAAE34	VTBB	240700		07:06	-	07:05
48	SAAE34	VTBB	240730		07:35	-	07:35

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49	SAAE34	VTBB	240730	RRA	07:36	-	07:36
50	SAAE34	VTBB	240730	CCA	07:44	-	07:44
51	SAAR20	OEJD	240200		02:15	02:19	02:21
52	SAAR20	OEJD	240300		03:15	03:19	03:19
53	SAAR20	OEJD	240400		04:15	04:16	04:17
54	SAAR20	OEJD	240500		05:15	05:16	05:16
55	SAAR20	OEJD	240600		06:15	06:15	06:16
56	SAAR20	OEJD	240600	RRA	06:20	06:20	06:21
57	SAAR20	OEJD	240700		07:15	07:16	07:17
58	SAAU31	YBBN	240200		02:10	02:10	02:11
59	SAAU31	YBBN	240230		02:40	02:40	02:41
60	SAAU31	YBBN	240300		03:10	03:10	03:11
61	SAAU31	YBBN	240300		03:10	03:10	03:11
62	SAAU31	YBBN	240330		03:40	03:40	03:41
63	SAAU31	YBBN	240400		04:10	04:10	04:12
64	SAAU31	YBBN	240430		04:40	04:40	04:40
65	SAAU31	YBBN	240500		05:10	05:10	05:10
66	SAAU31	YBBN	240530		05:40	05:40	05:40
67	SAAU31	YBBN	240600		06:10	06:10	06:11
68	SAAU31	YBBN	240630		06:40	06:40	06:41
69	SAAU31	YBBN	240700		07:10	07:10	07:10
70	SAAU31	YBBN	240730		07:40	07:40	07:41
71	SAAU32	YBBN	240200		02:10	02:10	02:10
72	SAAU32	YBBN	240230		02:40	02:40	02:41
73	SAAU32	YBBN	240300		03:10	03:10	03:11
74	SAAU32	YBBN	240330		03:40	03:40	03:41
75	SAAU32	YBBN	240400		04:10	04:10	04:10
76	SAAU32	YBBN	240430		04:40	04:40	04:40
77	SAAU32	YBBN	240500		05:10	05:10	05:10
78	SAAU32	YBBN	240530		05:40	05:40	05:41
79	SAAU32	YBBN	240600		06:10	06:10	06:11
80	SAAU32	YBBN	240630		06:40	06:40	06:41
81	SAAU32	YBBN	240700		07:10	07:10	07:11
82	SAAU32	YBBN	240730		07:40	07:40	07:41
83	SAAU33	YBBN	240200		02:10	02:10	02:12
84	SAAU33	YBBN	240200		02:40	02:40	02:41
85	SAAU33	YBBN	240300		03:10	03:10	03:11
86	SAAU33	YBBN	240330		03:40	03:40	03:41
87	SAAU33	YBBN	240400		04:10	04:10	04:10
88	SAAU33	YBBN	240430		04:40	04:40	04:40
89	SAAU33	YBBN	240500		05:10	05:10	05:11
90	SAAU33	YBBN	240530		05:40	05:40	05:41
91	SAAU33	YBBN	240600		06:10	06:10	06:11
92	SAAU33	YBBN	240630		06:40	06:40	06:41
93	SAAU33	YBBN	240700		07:10	07:10	07:11
94	SAAU33	YBBN	240730		07:40	07:40	07:41
95	SAAU34	YBBN	240200		02:10	02:10	02:11
96	SAAU34	YBBN	240230		02:40	02:40	02:41
97	SAAU34	YBBN	240300		03:10	03:10	03:11
98	SAAU34	YBBN	240330		03:40	03:40	03:41
99	SAAU34	YBBN	240400		04:10	04:10	04:11
100	SAAU34	YBBN	240430		04:40	04:40	04:40
101	SAAU34	YBBN	240500		05:10	05:10	05:12
102	SAAU34	YBBN	240530		05:40	05:40	05:41
103	SAAU34	YBBN	240600		06:10	06:10	06:11
104	SAAU34	YBBN	240630		06:40	06:40	06:41
105	SAAU34	YBBN	240700		07:10	07:10	07:11
106	SAAU34	YBBN	240730		07:40	07:40	07:41
107	SAAU35	YBBN	240200		02:10	02:10	02:10

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108	SAAU35	YBBN	240230		02:40	02:40	02:41
109	SAAU35	YBBN	240300		03:10	03:10	03:11
110	SAAU35	YBBN	240330		03:40	03:40	03:41
111	SAAU35	YBBN	240400		04:10	04:10	04:10
112	SAAU35	YBBN	240430		04:40	04:40	04:40
113	SAAU35	YBBN	240500		05:10	05:10	05:10
114	SAAU35	YBBN	240530		05:40	05:40	05:41
115	SAAU35	YBBN	240600		06:10	06:10	06:11
116	SAAU35	YBBN	240630		06:40	06:40	06:41
117	SAAU35	YBBN	240700		07:10	07:10	07:11
118	SAAU35	YBBN	240730		07:40	07:40	07:41
119	SACI31	ZBBB	240200		02:05	02:05	02:06
120	SACI31	ZBBB	240230		02:35	02:35	02:36
121	SACI31	ZBBB	240300		03:05	03:05	03:06
122	SACI31	ZBBB	240300	CCA	03:24	03:25	03:26
123	SACI31	ZBBB	240330		03:35	03:37	03:38
124	SACI31	ZBBB	240400		04:05	04:05	04:05
125	SACI31	ZBBB	240430		04:35	04:35	04:35
126	SACI31	ZBBB	240500		05:05	05:05	05:07
127	SACI31	ZBBB	240530		05:35	05:35	05:36
128	SACI31	ZBBB	240600		06:05	06:05	06:06
129	SACI31	ZBBB	240630		06:35	06:38	06:38
130	SACI31	ZBBB	240700		07:05	07:05	07:06
131	SACI31	ZBBB	240730		07:35	07:35	07:36
132	SACI32	ZBBB	240200		02:05	02:06	02:06
133	SACI32	ZBBB	240300		03:05	03:06	03:07
134	SACI32	ZBBB	240400		04:05	04:05	04:06
135	SACI32	ZBBB	240500		05:05	05:05	05:07
136	SACI32	ZBBB	240600		06:05	06:06	06:07
137	SACI32	ZBBB	240700		07:05	07:06	07:07
138	SACI41	ZBBB	240200		02:05	02:06	02:08
139	SACI41	ZBBB	240300		03:05	03:06	03:07
140	SACI41	ZBBB	240400		04:05	04:05	04:05
141	SACI41	ZBBB	240500		05:05	05:06	05:07
142	SACI41	ZBBB	240600		06:05	06:06	06:07
143	SACI41	ZBBB	240600	CCA	06:06	06:08	06:08
144	SACI41	ZBBB	240700		07:05	07:06	07:09
145	SAHK31	VHHH	240200		02:06	02:06	02:07
146	SAHK31	VHHH	240230		02:36	02:36	02:36
147	SAHK31	VHHH	240300		03:06	03:06	03:07
148	SAHK31	VHHH	240330		03:36	03:36	03:37
149	SAHK31	VHHH	240400		04:06	04:06	04:07
150	SAHK31	VHHH	240430		04:36	04:36	04:36
151	SAHK31	VHHH	240500		05:06	05:06	05:07
152	SAHK31	VHHH	240530		05:36	05:36	05:36
153	SAHK31	VHHH	240600		06:06	06:06	06:07
154	SAHK31	VHHH	240630		06:36	11:16	06:37
155	SAHK31	VHHH	240700		07:06	07:06	07:07
156	SAHK31	VHHH	240730		07:36	07:36	07:37
157	SAID31	WIII	240200		02:08	02:09	02:09
158	SAID31	WIII	240200		02:29	02:29	02:30
159	SAID31	WIII	240200		02:29	02:29	02:30
160	SAID31	WIII	240200		02:29	02:29	02:30
161	SAID31	WIII	240230		02:39	02:39	02:40
162	SAID31	WIII	240230		02:59	03:00	03:01
163	SAID31	WIII	240230		03:00	03:00	03:01
164	SAID31	WIII	240300		03:09	03:09	03:10
165	SAID31	WIII	240300		03:18	03:18	03:20
166	SAID31	WIII	240330		03:39	03:39	03:41

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167	SAID31	WIII	240400	04:10	04:10	04:11
168	SAID31	WIII	240400	04:28	04:28	04:29
169	SAID31	WIII	240430	04:39	04:40	04:40
170	SAID31	WIII	240500	05:10	05:10	05:12
171	SAID31	WIII	240500	05:10	05:11	05:12
172	SAID31	WIII	240530	05:40	05:40	05:42
173	SAID31	WIII	240600	06:10	06:10	06:11
174	SAID31	WIII	240630	06:40	06:40	06:41
175	SAID31	WIII	240700	07:10	07:10	07:11
176	SAID31	WIII	240700	07:14	07:14	07:16
177	SAID31	WIII	240730	07:40	07:40	07:41
178	SAID32	WIII	240200	02:29	02:30	02:30
179	SAID32	WIII	240200	02:29	02:30	02:30
180	SAID32	WIII	240200	02:30	02:30	02:31
181	SAID32	WIII	240200	02:30	02:31	02:31
182	SAID32	WIII	240200	02:30	02:31	02:32
183	SAID32	WIII	240200	02:31	02:31	02:32
184	SAID32	WIII	240230	02:42	02:42	02:42
185	SAID32	WIII	240230	03:00	03:00	03:01
186	SAID32	WIII	240230	03:00	03:00	03:01
187	SAID32	WIII	240230	03:00	03:00	03:01
188	SAID32	WIII	240400	05:01	05:00	05:01
189	SAID32	WIII	240430	04:59	04:58	04:59
190	SAID32	WIII	240430	05:13	05:12	05:13
191	SAID32	WIII	240500	05:13	05:12	05:13
192	SAID32	WIII	240530	05:42	05:42	05:42
193	SAID32	WIII	240600	06:13	06:11	06:12
194	SAID32	WIII	240630	06:44	06:44	06:44
195	SAID32	WIII	240700	07:12	07:11	07:12
196	SAID32	WIII	240730	07:42	07:41	07:42
197	SAID33	WIII	240200	02:09	02:09	02:09
198	SAID33	WIII	240200	02:10	02:10	02:11
199	SAID33	WIII	240200	02:30	02:30	02:30
200	SAID33	WIII	240200	02:30	02:30	02:30
201	SAID33	WIII	240200	02:30	02:30	02:30
202	SAID33	WIII	240230	02:39	02:39	02:40
203	SAID33	WIII	240230	03:00	03:00	03:01
204	SAID33	WIII	240230	03:00	03:00	03:01
205	SAID33	WIII	240300	03:09	03:09	03:10
206	SAID33	WIII	240300	03:18	03:18	03:18
207	SAID33	WIII	240300	03:19	03:19	03:20
208	SAID33	WIII	240330	03:39	03:39	03:41
209	SAID33	WIII	240400	04:10	04:10	04:11
210	SAID33	WIII	240430	04:39	04:40	04:41
211	SAID33	WIII	240500	05:10	05:10	05:12
212	SAID33	WIII	240500	05:16	05:16	05:16
213	SAID33	WIII	240530	05:40	05:40	05:42
214	SAID33	WIII	240530	05:50	05:50	05:51
215	SAID33	WIII	240600	06:10	06:10	06:11
216	SAID33	WIII	240630	06:40	06:40	06:41
217	SAID33	WIII	240700	07:10	07:10	07:11
218	SAID33	WIII	240700	07:15	07:15	07:16
219	SAID33	WIII	240700	07:16	07:16	07:17
220	SAID33	WIII	240700	07:18	07:18	07:18
221	SAID33	WIII	240730	07:40	07:40	07:41
222	SAID33	WIII	240730	07:58	07:58	07:59
223	SAIN31	VABB	240200	02:09	02:09	02:10
224	SAIN31	VABB	240230	RRA 03:06	03:06	03:06
225	SAIN31	VABB	240230	RRB 03:06	03:06	03:07

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226	SAIN31	VABB	240300		03:09	03:09	03:10
227	SAIN31	VABB	240300	RRA	03:17	03:17	03:18
228	SAIN31	VABB	240330		03:39	03:39	03:39
229	SAIN31	VABB	240400		04:09	04:09	04:09
230	SAIN31	VABB	240430		04:39	04:39	04:41
231	SAIN31	VABB	240500		05:09	05:09	05:10
232	SAIN31	VABB	240530		05:43	05:43	05:44
233	SAIN31	VABB	240600		06:09	06:09	06:10
234	SAIN31	VABB	240600	RRA	06:11	06:11	06:11
235	SAIN31	VABB	240630		06:39	06:39	06:39
236	SAIN31	VABB	240700		07:09	07:09	07:09
237	SAIN31	VABB	240730		07:39	07:39	07:39
238	SAIN32	VIDP	240200		02:05	02:05	02:07
239	SAIN32	VIDP	240230		02:35	02:35	02:36
240	SAIN32	VIDP	240230	CCA	02:36	02:36	02:36
241	SAIN32	VIDP	240230	RRB	02:45	02:45	02:46
242	SAIN32	VIDP	240300		03:05	03:05	03:06
243	SAIN32	VIDP	240300	RRA	03:10	03:10	03:11
244	SAIN32	VIDP	240330		03:35	03:35	03:36
245	SAIN32	VIDP	240330	RRA	03:40	03:40	03:41
246	SAIN32	VIDP	240400		04:05	04:05	04:06
247	SAIN32	VIDP	240400	RRA	04:15	04:15	04:15
248	SAIN32	VIDP	240430		04:35	04:35	04:35
249	SAIN32	VIDP	240430	RRB	04:45	04:45	04:45
250	SAIN32	VIDP	240500		05:05	05:05	05:07
251	SAIN32	VIDP	240500	RRA	05:15	05:15	05:16
252	SAIN32	VIDP	240530		05:35	05:35	05:36
253	SAIN32	VIDP	240530	RRA	05:40	05:40	05:42
254	SAIN32	VIDP	240600		06:05	06:05	06:06
255	SAIN32	VIDP	240600	RRA	06:15	06:15	06:16
256	SAIN32	VIDP	240630		06:35	06:35	06:36
257	SAIN32	VIDP	240630	RRA	06:40	06:40	06:41
258	SAIN32	VIDP	240700		07:05	07:05	07:06
259	SAIN32	VIDP	240700	RRA	07:15	07:15	07:16
260	SAIN32	VIDP	240730		07:35	07:35	07:36
261	SAIN32	VIDP	240730	RRA	07:40	07:40	07:41
262	SAIN33	VECC	240200		02:05	02:05	02:07
263	SAIN33	VECC	240200	RRA	02:15	02:15	02:15
264	SAIN33	VECC	240230		02:35	02:35	02:36
265	SAIN33	VECC	240300		03:05	03:05	03:06
266	SAIN33	VECC	240300	RRA	03:15	03:15	03:16
267	SAIN33	VECC	240330		03:35	03:35	03:36
268	SAIN33	VECC	240330	RRA	03:45	03:45	03:45
269	SAIN33	VECC	240400		04:05	04:05	04:07
270	SAIN33	VECC	240400	RRA	04:15	04:15	04:15
271	SAIN33	VECC	240430		04:35	04:35	04:37
272	SAIN33	VECC	240500		05:05	05:06	05:07
273	SAIN33	VECC	240500	RRA	05:15	05:15	05:16
274	SAIN33	VECC	240500	RRB	05:25	05:25	05:26
275	SAIN33	VECC	240530		05:35	05:35	05:36
276	SAIN33	VECC	240530	RRA	05:55	05:55	05:56
277	SAIN33	VECC	240600		06:05	06:05	06:06
278	SAIN33	VECC	240600	RRA	06:15	06:15	06:16
279	SAIN33	VECC	240630		06:35	06:35	06:36
280	SAIN33	VECC	240700		07:05	07:05	07:06
281	SAIN33	VECC	240700	RRA	07:15	07:15	07:16
282	SAIN33	VECC	240730		07:35	07:35	07:36
283	SAIN33	VECC	240730	RRA	07:45	07:45	07:45
284	SAIR31	OIII	240200		02:03	02:03	02:04

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285	SAIR31	OIII	240230		02:33	02:33	02:34
286	SAIR31	OIII	240300		03:03	03:03	03:03
287	SAIR31	OIII	240330		03:33	03:33	03:33
288	SAIR31	OIII	240330	RRA	03:36	03:36	03:37
289	SAIR31	OIII	240400		04:03	04:03	04:04
290	SAIR31	OIII	240430		04:33	04:33	04:34
291	SAIR31	OIII	240500		05:03	05:03	05:04
292	SAIR31	OIII	240500	RRA	05:04	05:04	05:05
293	SAIR31	OIII	240530		05:33	05:33	05:34
294	SAIR31	OIII	240530	RRA	05:33	05:33	05:34
295	SAIR31	OIII	240600		06:03	06:03	06:03
296	SAIR31	OIII	240600	RRA	06:04	06:04	06:05
297	SAIR31	OIII	240600	RRB	06:05	06:05	06:06
298	SAIR31	OIII	240630		06:33	06:33	06:33
299	SAIR31	OIII	240630	RRA	06:33	06:33	06:33
300	SAIR31	OIII	240700		07:03	07:03	07:03
301	SAIR31	OIII	240730		07:33	07:33	07:33
302	SAJP31	RJTD	240200		02:06	02:06	02:08
303	SAJP31	RJTD	240300		03:06	03:06	03:07
304	SAJP31	RJTD	240400		04:06	04:06	04:07
305	SAJP31	RJTD	240500		05:06	05:06	05:08
306	SAJP31	RJTD	240600		06:06	06:06	06:07
307	SAJP31	RJTD	240700		07:06	07:06	07:07
308	SAJP32	RJTD	240200		02:06	02:06	02:08
309	SAJP32	RJTD	240200	RRA	02:06	02:06	02:08
310	SAJP32	RJTD	240300		03:06	03:06	03:07
311	SAJP32	RJTD	240300	RRA	03:06	03:06	03:07
312	SAJP32	RJTD	240400		04:06	04:06	04:08
313	SAJP32	RJTD	240400	RRA	04:06	04:06	04:08
314	SAJP32	RJTD	240500		05:06	05:06	05:08
315	SAJP32	RJTD	240500	RRA	05:06	05:06	05:08
316	SAJP32	RJTD	240600		06:06	06:06	06:07
317	SAJP32	RJTD	240600	RRA	06:06	06:06	06:07
318	SAJP32	RJTD	240700		07:06	07:06	07:07
319	SAJP32	RJTD	240700	RRA	07:06	07:06	07:07
320	SAJP38	RJTD	240200		02:06	02:06	02:08
321	SAJP38	RJTD	240200	RRA	02:06	02:07	02:08
322	SAJP38	RJTD	240300		03:06	03:06	03:08
323	SAJP38	RJTD	240300	RRA	03:06	03:07	03:08
324	SAJP38	RJTD	240400		04:06	04:06	04:08
325	SAJP38	RJTD	240400	RRA	04:06	04:06	04:08
326	SAJP38	RJTD	240500		05:06	05:07	05:08
327	SAJP38	RJTD	240500	RRA	05:06	05:07	05:08
328	SAJP38	RJTD	240600		06:06	06:06	06:08
329	SAJP38	RJTD	240600	RRA	06:06	06:07	06:08
330	SAJP38	RJTD	2407000		07:06	07:06	07:07
331	SAJP38	RJTD	240700	RRA	07:06	07:06	07:07
332	SAKO31	RKSI	240200		02:04	02:04	02:05
333	SAKO31	RKSI	240230		02:34	02:34	02:35
334	SAKO31	RKSI	240300		03:04	03:04	03:05
335	SAKO31	RKSI	240330		03:34	03:34	03:34
336	SAKO31	RKSI	240400		04:04	04:04	04:06
337	SAKO31	RKSI	240430		04:34	04:34	04:36
338	SAKO31	RKSI	240500		05:04	05:04	05:05
339	SAKO31	RKSI	240530		05:34	05:34	06:28
340	SAKO31	RKSI	240600		06:04	06:04	06:05
341	SAKO31	RKSI	240600	RRA	06:04	06:04	06:05
342	SAKO31	RKSI	240630		06:34	06:34	06:34
343	SAKO31	RKSI	240700		07:04	07:04	07:04

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344	SAKO31	RKSI	240730		07:34	07:34	07:34
345	SAMS31	WMKK	240130	RRA	02:06	02:06	02:07
346	SAMS31	WMKK	240200		02:08	02:08	02:09
347	SAMS31	WMKK	240200		02:09	02:08	02:09
348	SAMS31	WMKK	240130	CCA	02:10	02:10	02:10
349	SAMS31	WMKK	240230		02:38	02:38	02:39
350	SAMS31	WMKK	240230		02:38	02:38	02:39
351	SAMS31	WMKK	240300		03:08	03:08	03:08
352	SAMS31	WMKK	240300		03:09	03:08	03:08
353	SAMS31	WMKK	240300	RRA	03:12	03:12	03:12
354	SAMS31	WMKK	240300	CCA	03:34	03:34	03:34
355	SAMS31	WMKK	240330		03:38	03:38	03:38
356	SAMS31	WMKK	240330		03:38	03:38	03:38
357	SAMS31	WMKK	240330	RRA	04:02	04:02	04:03
358	SAMS31	WMKK	240400		04:08	04:08	04:08
359	SAMS31	WMKK	240400		04:09	04:08	04:09
360	SAMS31	WMKK	240400	RRA	04:10	04:10	04:11
361	SAMS31	WMKK	240430		04:38	04:38	04:39
362	SAMS31	WMKK	240430		04:38	04:38	04:39
363	SAMS31	WMKK	240500		05:08	05:08	05:09
364	SAMS31	WMKK	240500		05:09	05:08	05:09
365	SAMS31	WMKK	240530		05:38	05:38	05:39
366	SAMS31	WMKK	240530		05:38	05:38	05:39
367	SAMS31	WMKK	240530	RRA	05:44	05:44	05:45
368	SAMS31	WMKK	240600		06:09	06:08	06:09
369	SAMS31	WMKK	240600	RRA	06:16	06:16	06:16
370	SAMS31	WMKK	240630		06:38	06:38	06:38
371	SAMS31	WMKK	240630		06:38	06:38	06:38
372	SAMS31	WMKK	240700		07:08	07:08	07:08
373	SAMS31	WMKK	240700		07:09	07:08	07:08
374	SAMS31	WMKK	240730		07:38	07:38	07:39
375	SAMS31	WMKK	240730		07:39	07:38	07:39
376	SAMS38	WMKK	240200		02:09	02:08	02:09
377	SAMS38	WMKK	240300		03:09	03:08	03:09
378	SAMS38	WMKK	240400		04:09	04:08	04:09
379	SAMS38	WMKK	240500		05:09	05:08	05:09
380	SAMS38	WMKK	240600		06:09	06:08	06:09
381	SAMS38	WMKK	240700		07:09	07:08	07:08
382	SANG31	YBBN	240200		02:10	02:10	02:12
383	SANG31	YBBN	240300		03:10	03:10	03:11
384	SANG31	YBBN	240400		04:10	04:10	04:11
385	SANG31	YBBN	240400	RRA	04:20	04:20	04:20
386	SANG31	YBBN	240500		05:10	05:10	05:10
387	SANG31	YBBN	240500	RRA	05:20	05:20	05:20
388	SANG31	YBBN	240600		06:10	06:10	06:11
389	SANG31	YBBN	240700		07:10	07:10	07:11
390	SANG31	YBBN	240700	RRA	07:20	07:20	07:21
391	SANZ31	NZKL	240200		02:07	02:07	02:08
392	SANZ31	NZKL	240230		02:37	02:37	02:37
393	SANZ31	NZKL	240300		03:07	03:07	03:08
394	SANZ31	NZKL	240330		03:37	03:37	03:38
395	SANZ31	NZKL	240400		04:07	04:07	04:08
396	SANZ31	NZKL	240430		04:37	04:37	04:38
397	SANZ31	NZKL	240500		05:07	05:07	05:08
398	SANZ31	NZKL	240530		05:37	05:37	05:37
399	SANZ31	NZKL	240600		06:07	06:07	06:08
400	SANZ31	NZKL	240630		06:37	06:37	06:38
401	SANZ31	NZKL	240700		07:07	07:07	07:07
402	SANZ31	NZKL	240730		07:37	07:37	07:38

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403	SAPK31	OPKC	240200		02:00	02:00	02:01
404	SAPK31	OPKC	240230		02:40	02:40	02:41
405	SAPK31	OPKC	240300		03:09	03:09	03:10
406	SAPK31	OPKC	240330		03:30	03:30	03:32
407	SAPK31	OPKC	240359		04:01	04:01	04:02
408	SAPK31	OPKC	240359	DUPE	04:06	04:06	04:07
409	SAPK31	OPKC	240359	DUPE	04:27	04:27	04:28
410	SAPK31	OPKC	240430		04:29	04:29	04:29
411	SAPK31	OPKC	240500		05:01	05:01	05:03
412	SAPK31	OPKC	240530		05:31	05:31	05:32
413	SAPK31	OPKC	240600		06:00	06:00	06:01
414	SAPK31	OPKC	240630		06:32	06:32	06:33
415	SAPK31	OPKC	240659		07:01	07:01	07:02
416	SAPK31	OPKC	240659		07:01	07:01	07:02
417	SAPK31	OPKC	240730		07:34	07:34	07:36
418	SAPS31	NFFN	240200		02:15	02:15	02:15
419	SAPS31	NFFN	240300		03:15	03:15	03:16
420	SAPS31	NFFN	240400		04:15	04:15	04:15
421	SAPS31	NFFN	240500		05:15	05:15	05:15
422	SAPS31	NFFN	240600		06:15	06:15	06:16
423	SAPS31	NFFN	240700		07:15	07:15	07:16
424	SAPS32	NFFN	240200		02:15	02:15	02:15
425	SAPS32	NFFN	240300		03:15	03:15	03:16
426	SAPS32	NFFN	240300	RRA	03:17	03:17	03:17
427	SAPS32	NFFN	240300	RRB	03:17	03:17	03:17
428	SAPS32	NFFN	240400		04:15	04:15	04:16
429	SAPS32	NFFN	240500		05:15	05:15	05:15
430	SAPS32	NFFN	240600		06:15	06:15	06:16
431	SAPS32	NFFN	240700		07:15	07:15	07:16
432	SASB31	VCCC	240210		02:20	02:21	02:21
433	SASB31	VCCC	240310		03:20	03:20	03:21
434	SASB31	VCCC	240410		04:20	04:20	04:20
435	SASB31	VCCC	240510		05:21	05:21	05:22
436	SASB31	VCCC	240610		06:20	06:20	06:21
437	SASB31	VCCC	240710		07:20	07:20	07:21
438	SASD31	OEJD	240200		02:00	02:00	02:00
439	SASD31	OEJD	240200	RRA	02:05	02:05	02:05
440	SASD31	OEJD	240200	CCA	02:20	02:20	02:21
441	SASD31	OEJD	240300		03:00	03:00	03:01
442	SASD31	OEJD	240300	RRA	03:05	03:05	03:06
443	SASD31	OEJD	240400		04:00	04:00	04:00
444	SASD31	OEJD	240200	RRB	04:30	04:30	04:30
445	SASD31	OEJD	240500		05:00	05:00	05:01
446	SASD31	OEJD	240600		06:00	06:00	06:01
447	SASD31	OEJD	240600	RRA	06:05	06:05	06:06
448	SASD31	OEJD	240600	RRB	06:25	06:25	06:26
449	SASD31	OEJD	240700		07:00	07:00	07:01
450	SASD31	OEJD	240700	RRA	07:07	07:07	07:09
451	SATH31	VTBB	240200		02:05	-	02:05
452	SATH31	VTBB	240300		03:05	-	03:05
453	SATH31	VTBB	240400		04:04	-	04:04
454	SATH31	VTBB	240500		05:06	-	05:05
455	SATH31	VTBB	240600		06:05	-	06:05
456	SATH31	VTBB	240700		07:05	-	07:05
457	SATH32	VTBB	240200		02:05	-	02:05
458	SATH32	VTBB	240200	RRA	02:31	-	02:30
459	SATH32	VTBB	240300		03:05	-	03:05
460	SATH32	VTBB	240300	RRA	03:16	-	03:16
461	SATH32	VTBB	240300	RRB	03:31	-	03:31

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462	SATH32	VTBB	240400		04:04	-	04:04
463	SATH32	VTBB	240400	RRA	04:10	-	04:09
464	SATH32	VTBB	240400	RRB	04:30	-	04:30
465	SATH32	VTBB	240500		05:06	-	05:05
466	SATH32	VTBB	240500	RRA	05:33	-	05:32
467	SATH32	VTBB	240600		06:05	-	06:05
468	SATH32	VTBB	240600	RRA	06:17	-	06:16
469	SATH32	VTBB	240600	RRB	06:31	-	06:31
470	SATH32	VTBB	240700		07:05	-	07:05
471	SATH32	VTBB	240700	RRA	07:29	-	07:29
472	SATH33	VTBB	240200		02:06	-	02:05
473	SATH33	VTBB	240300		03:05	-	03:05
474	SATH33	VTBB	240400		04:05	-	04:04
475	SATH33	VTBB	240400	CCA	04:07	-	04:07
476	SATH33	VTBB	240500		05:06	-	05:06
477	SATH33	VTBB	240600		06:06	-	06:05
478	SATH33	VTBB	240700		07:05	-	07:05
479	SABN31	OBBI	240200		01:57	02:02	02:02
480	SABN31	OBBI	240200	CCA	02:20	02:20	02:21
481	SABN31	OBBI	240230		02:24	02:24	02:25
482	SABN31	OBBI	240300		02:56	02:56	02:56
483	SABN31	OBBI	240300		03:06	03:05	03:06
484	SABN31	OBBI	240330		03:24	03:24	03:24
485	SABN31	OBBI	240400		03:56	03:56	03:57
486	SABN31	OBBI	240400		04:03	04:02	04:03
487	SABN31	OBBI	240430		04:26	04:26	04:27
488	SABN31	OBBI	240500		04:53	04:52	04:53
489	SABN31	OBBI	240500		04:55	05:02	05:03
490	SABN31	OBBI	240530		05:29	05:29	05:30
491	SABN31	OBBI	240600		05:53	05:53	05:53
492	SABN31	OBBI	240600		06:06	06:05	06:06
493	SABN31	OBBI	240630		06:26	06:26	06:27
494	SABN31	OBBI	240700		06:56	06:56	06:57
495	SABN31	OBBI	240700		07:08	07:07	07:08
496	SABN31	OBBI	240730		07:24	07:24	07:24
497	SABN31	OBBI	240800		07:54	07:54	07:55

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Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 24 September 2019

TAF Bulletins

					RX Time UTC Recorded by WSSS RODB RX Time UTC (hh:mm)	RX Time UTC Recorded by VTBB RODB RX Time UTC (hh:mm)	TX Time UTC Recorded by VTBB RODB TX Time UTC (hh:mm)
	TTAAii	CCCC	YYGGgg	BBB			
1	FTAE31	VTBB	240500		05:35	-	05:35
2	FTAE31	VTBB	240500	CCA	05:44	-	05:44
3	FTAE32	VTBB	240500		05:37	-	05:35
4	FTAE33	VTBB	240500		05:36	-	05:35
5	FTAE34	VTBB	240500		05:37	-	05:35
6	FTAU31	YBBN	240200	AMD	02:06	02:08	02:08
7	FTAU31	YBBN	240500	AMD	05:03	05:03	05:04
8	FTAU31	YBBN	240500		05:35	05:35	05:35
9	FTAU32	YBBN	240200	AMD	02:23	02:23	02:24
10	FTAU32	YBBN	240400	AMD	04:10	04:10	04:12
11	FTAU32	YBBN	240500	AMD	05:06	05:06	05:06
12	FTAU32	YBBN	240500	AMD	05:16	05:16	05:16
13	FTAU32	YBBN	240500	AMD	05:20	05:20	05:21
14	FTAU32	YBBN	240500		05:35	05:35	05:35
15	FTAU32	YBBN	240500	AMD	05:38	05:38	05:39
16	FTAU32	YBBN	240500	AMD	05:40	05:39	05:40
17	FTAU32	YBBN	240500	RRA	05:45	05:45	05:46
18	FTAU32	YBBN	240500	RRA	05:55	05:55	05:56
19	FTAU32	YBBN	240700	AMD	07:36	07:36	07:37
20	FTAU33	YBBN	240400	AMD	04:36	04:36	04:36
21	FTAU33	YBBN	240400	AMD	04:38	04:38	04:39
22	FTAU33	YBBN	240400	AMD	04:39	04:39	04:40
23	FTAU33	YBBN	240400	AMD	04:49	04:49	04:50
24	FTAU33	YBBN	240500		05:35	05:35	05:35
25	FTAU33	YBBN	240500	AMD	05:44	05:45	05:45
26	FTAU33	YBBN	240500	RRA	05:45	05:45	05:46
27	FTAU34	YBBN	240500		05:00	05:00	05:00
28	FTAU34	YBBN	240500	RRA	05:20	05:20	05:20
29	FTAU35	YBBN	240700		07:00	07:00	07:00
30	FTAU35	YBBN	240700	RRA	07:20	07:20	07:21
31	FTAU35	YBBN	240700	RRA	07:30	07:30	07:30
32	FTCI31	ZBBB	240400		04:00	04:00	04:01
33	FTCI32	ZBBB	240400		04:00	04:00	04:02
34	FTCI32	ZBBB	240400	RRA	04:40	04:41	04:41
35	FTCI41	ZBBB	240400		04:00	04:00	04:02
36	FTHK31	VHHH	240500		05:35	05:35	05:36
37	FTHK31	VHHH	240500	RRA	05:39	05:39	05:40
38	FTHK31	VHHH	240500	RRB	05:40	05:39	05:40
39	FTHK31	VHHH	240500	AAA	06:35	06:35	06:36
40	FTHK31	VHHH	240500	AAB	06:42	06:42	06:42
41	FTIN31	VABB	240500	RRA	05:41	05:40	05:41
42	FTIN31	VABB	240500	RRB	05:41	05:41	05:41
43	FTIN32	VABB	240500	RRA	05:42	05:42	05:44
44	FTIN32	VABB	240500	RRB	05:43	05:43	05:44
45	FTIN32	VABB	240500	RRA	06:22	06:21	06:22
46	FTIR31	OIII	240500	RRA	05:54	05:54	05:55
47	FTIR32	OIII	240500	RRA	05:54	05:55	05:55
48	FTIR33	OIII	240500	RRA	05:55	05:55	05:56
49	FTIR34	OIII	240500	RRA	05:55	05:55	05:56

MET/IE WG/18 & MET/S WG/10 – WP/04

Agenda Item 3

27-31/07/20

50	FTJP31	RJTD	232300	AAA	02:43	02:43	02:44
51	FTJP31	RJTD	232300	AAB	02:45	02:45	02:46
52	FTJP31	RJTD	240500		05:27	05:27	05:27
53	FTJP32	RJTD	232300	AAA	03:54	03:54	03:55
54	FTJP32	RJTD	240500		05:27	05:27	05:28
55	FTJP32	RJTD	240500	RRA	05:27	05:27	05:27
56	FTJP32	RJTD	240500	AAA	06:22	06:22	06:23
57	FTJP38	RJTD	232300	AAA	03:38	03:38	03:39
58	FTJP38	RJTD	232300	AAB	03:45	03:45	03:45
59	FTJP38	RJTD	240500		05:27	05:27	05:28
60	FTJP38	RJTD	240500	RRA	05:27	05:27	05:28
61	FTJP38	RJTD	240500	RRB	05:27	05:27	05:28
62	FTKO31	RKSI	240500		05:05	05:05	05:06
63	FTKO31	RKSI	240500	RRA	05:09	05:09	05:10
64	FTNG31	YBBN	240400		04:45	04:45	04:45
65	FTNG31	YBBN	240500	RRA	05:15	05:15	05:15
66	FTNG31	YBBN	240500	RRA	05:55	05:55	05:56
67	FTNZ31	NZKL	232300	AAA	02:17	02:17	02:18
68	FTNZ31	NZKL	240217	AAA	02:17	02:17	02:18
69	FTNZ31	NZKL	232300	AAB	03:12	03:12	03:13
70	FTNZ31	NZKL	240312	AAA	03:12	03:12	03:13
71	FTNZ31	NZKL	240500		05:01	05:01	05:03
72	FTNZ31	NZKL	240500		05:02	05:02	05:03
73	FTPK31	OPKC	240400		04:00	04:00	04:00
74	FTPS31	NFFN	240500		05:30	05:30	05:32
75	FTSD31	OEJD	240500		05:00	05:00	05:00
76	FTSD31	OEJD	240500	RRA	05:05	05:05	05:05
77	FTSR31	WSSS	240500		05:06	05:06	05:07
78	FTSR32	WSSS	240500		05:08	05:08	05:09
79	FTSR32	WSSS	240500	AAA	07:20	07:20	07:21
80	FTSR32	WSSS	240500	AAB	07:30	07:30	07:31
81	FTSR33	WSSS	240500		05:09	05:09	05:10
82	FTTH31	VTBB	240500		05:36	-	05:35
83	FTTH32	VTBB	240500		05:37	-	05:35
84	FTTH33	VTBB	240500		05:35	-	05:35
85	FTTM31	YBBN	240700		07:00	07:00	07:01
86	FTTM31	YBBN	240700	RRA	07:40	07:40	07:40
87	FTBN31	OBBI	240500		04:44	04:44	04:45
