



ICAO

International Civil Aviation Organization

WORKING PAPER

Asia and Pacific (APAC)

**Twenty-second Meeting of the Meteorological
Information Exchange Working Group (MET/IE WG/22)**

Bangkok, Thailand, 18 to 21 March 2024

Agenda Item 3: Quality control, monitoring and management of meteorological information exchange

ASIA/PAC INTER-REGIONAL OPMET GATEWAY BACK-UP EXERCISE BETWEEN IROG BANGKOK AND IROG SINGAPORE

(Presented by Thailand)

SUMMARY

This working paper provides the results of the eighteenth real-time back-up exercise conducted by IROG Singapore and IROG Bangkok on 15 September 2023.

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 IROG Bangkok in the event that IROG Singapore experiences technical problems.

1.2 The IROG back-up exercise will be carried out annually. This IROG back-up exercise is the seventeenth and the results of 5 previous exercises are listed as follows;

Year	2019	2020	2021	2022	2023
RODB Bangkok Successfully transmitted	100%	100%	99.70%	99.83%	100%

2. DISCUSSION

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	Min min	Average min
SA bulletins	489	489	489	100%	0	00.04	00.01	00.02
FT bulletins	90	90	90	100%	0	01.41	00.01	00.04
Total	579	579	579	100%	0	-	-	-

Remark: Duplicated bulletins are excluded from both IROGs

2.2 The back-up test results, IROG Singapore received 579, while IROG Bangkok received 579 and transmitted 579 (100.00%) of METAR and TAF bulletins to IROG London during the test

2.3 In conclusion, IROG Bangkok received and/relayed METAR and TAF bulletins, with average transit time of 0.02 and 0.04 minutes respectively.

3. ACTION 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 procedures, if required

MET/IE WG/22
Appendix A to WP/11

Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 15 September 2023

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	150730		07:35:02	-	07:35:02
2	SAAE31	VTBB	150700		07:05:02	-	07:05:02
3	SAAE31	VTBB	150630		06:35:02	-	06:35:02
4	SAAE31	VTBB	150600		06:05:02	-	06:05:02
5	SAAE31	VTBB	150530		05:35:02	-	05:35:02
6	SAAE31	VTBB	150500		05:05:02	-	05:05:03
7	SAAE31	VTBB	150430		04:35:02	-	04:35:02
8	SAAE31	VTBB	150400		04:05:03	-	04:05:03
9	SAAE31	VTBB	150330		03:35:04	-	03:35:02
10	SAAE31	VTBB	150300		03:05:02	-	03:05:02
11	SAAE31	VTBB	150230		02:35:02	-	02:35:02
12	SAAE31	VTBB	150200		02:05:02	-	02:05:02
13	SAAE32	VTBB	150730		07:35:07	-	07:35:07
14	SAAE32	VTBB	150700	RRA	07:05:15		07:05:15
15	SAAE32	VTBB	150700		07:05:08	-	07:05:06
16	SAAE32	VTBB	150630		06:35:07	-	06:35:06
17	SAAE32	VTBB	150600		06:05:09	-	06:05:06
18	SAAE32	VTBB	150530		05:35:09	-	05:35:07
19	SAAE32	VTBB	150500		05:05:08	-	05:05:07
20	SAAE32	VTBB	150430		04:35:07	-	04:35:06
21	SAAE32	VTBB	150400	RRA	04:23:01	-	04:23:00
22	SAAE32	VTBB	150400		04:05:08	-	04:05:07
23	SAAE32	VTBB	150330		03:35:08	-	03:35:07
24	SAAE32	VTBB	150300		03:05:07	-	03:05:07
25	SAAE32	VTBB	150230		02:35:08	-	02:35:07
26	SAAE32	VTBB	150200		02:05:08	-	02:05:06
27	SAAE33	VTBB	150700		07:05:11	-	07:05:10
28	SAAE33	VTBB	150600		06:05:10	-	06:05:10
29	SAAE33	VTBB	150500		05:05:11	-	05:05:10
30	SAAE33	VTBB	150400	RRA	04:23:04	-	04:23:04
31	SAAE33	VTBB	150400		04:05:12	-	04:05:12
32	SAAE33	VTBB	150300		03:05:11	-	03:05:10
33	SAAE33	VTBB	150200		02:05:11	-	02:05:10
34	SAAE34	VTBB	150730	RRC	07:49:12	-	07:49:11
35	SAAE34	VTBB	150730	RRB	07:37:23	-	07:37:22
36	SAAE34	VTBB	150730	RRA	07:36:17	-	07:36:16
37	SAAE34	VTBB	150730		07:35:11	-	07:35:11
38	SAAE34	VTBB	150700		07:05:15	-	07:05:14
39	SAAE34	VTBB	150630		06:35:11	-	06:35:10
40	SAAE34	VTBB	150600	RRA	06:09:15	-	06:09:14
41	SAAE34	VTBB	150600		06:05:14	-	06:05:14
42	SAAE34	VTBB	150530		05:35:12	-	05:35:12
43	SAAE34	VTBB	150500		05:05:14	-	05:05:14
44	SAAE34	VTBB	150430	RRA	05:01:04	-	05:01:03
45	SAAE34	VTBB	150430		04:35:10	-	04:35:10
46	SAAE34	VTBB	150400		04:05:16	-	04:05:16
47	SAAE34	VTBB	150330		03:35:11	-	03:35:11
48	SAAE34	VTBB	150300	RRA	03:29:26	-	03:29:25

MET/IE WG/22
Appendix A to WP/11

49	SAAE34	VTBB	150300		03:05:15	-	03:05:14
50	SAAE34	VTBB	150230		02:35:12	-	02:35:11
51	SAAE34	VTBB	150200		02:05:14	-	02:05:14
52	SAAR20	OEJD	150700		07:21:10	07:21:21	07:21:24
53	SAAR20	OEJD	150600		06:15:10	06:15:37	06:15:41
54	SAAR20	OEJD	150500		05:20:42	05:20:53	05:20:57
55	SAAR20	OEJD	150400	RRA	04:55:11	04:55:31	04:55:33
56	SAAR20	OEJD	150400		04:15:12	04:15:26	04:15:30
57	SAAR20	OEJD	150300		03:15:15	03:15:33	03:15:37
58	SAAR20	OEJD	150200	RRA	03:10:07	03:10:29	03:10:31
59	SAAR20	OEJD	150200		02:18:31	02:18:50	02:18:54
60	SAAU31	YBBN	150730		07:35:05	07:35:19	07:35:21
61	SAAU31	YBBN	150700		07:05:03	07:05:33	07:05:36
62	SAAU31	YBBN	150630	RRA	06:45:04	06:45:17	06:45:19
63	SAAU31	YBBN	150630		06:35:06	06:35:33	06:35:36
64	SAAU31	YBBN	150600		06:05:06	06:05:57	06:05:59
65	SAAU31	YBBN	150530		05:35:03	05:35:41	05:35:44
66	SAAU31	YBBN	150500		05:05:04	05:05:35	05:05:37
67	SAAU31	YBBN	150430	RRA	04:45:00	04:45:14	04:45:15
68	SAAU31	YBBN	150430		04:35:05	04:35:16	04:35:19
69	SAAU31	YBBN	150400		04:05:04	04:05:48	04:05:50
70	SAAU31	YBBN	150330	RRA	03:45:01	03:45:14	03:45:16
71	SAAU31	YBBN	150330		03:35:04	03:35:28	03:35:31
72	SAAU31	YBBN	150300		03:05:05	03:05:39	03:05:42
73	SAAU31	YBBN	150230	RRA	02:45:02	02:45:21	02:45:23
74	SAAU31	YBBN	150230		02:35:04	02:35:31	02:35:34
75	SAAU31	YBBN	150200		02:05:07	02:05:43	02:05:46
76	SAAU32	YBBN	150730		07:35:06	07:35:27	07:35:29
77	SAAU32	YBBN	150700		07:05:04	07:05:48	07:05:51
78	SAAU32	YBBN	150630		06:35:05	06:35:22	06:35:26
79	SAAU32	YBBN	150600		06:05:05	06:05:42	06:05:44
80	SAAU32	YBBN	150530		05:35:02	05:35:20	05:35:24
81	SAAU32	YBBN	150500		05:05:03	05:05:24	05:05:27
82	SAAU32	YBBN	150430		04:35:04	04:35:22	04:35:25
83	SAAU32	YBBN	150400		04:05:03	04:05:37	04:05:40
84	SAAU32	YBBN	150330		03:35:02	03:35:14	03:35:17
85	SAAU32	YBBN	150300		03:05:04	03:05:27	03:05:31
86	SAAU32	YBBN	150230		02:35:04	02:35:20	02:35:24
87	SAAU32	YBBN	150200		02:05:06	02:05:30	02:05:33
88	SAAU33	YBBN	150730		07:35:06	07:35:31	07:35:33
89	SAAU33	YBBN	150700		07:05:05	07:05:52	07:05:55
90	SAAU33	YBBN	150630		06:35:05	06:35:27	06:35:30
91	SAAU33	YBBN	150600		06:05:05	06:05:46	06:05:48
92	SAAU33	YBBN	150530		05:35:02	05:35:25	05:35:27
93	SAAU33	YBBN	150500		05:05:04	05:05:29	05:05:31
94	SAAU33	YBBN	150430		04:35:05	04:35:27	04:35:29
95	SAAU33	YBBN	150400		04:05:03	04:05:44	04:05:47
96	SAAU33	YBBN	150330		03:35:03	03:35:18	03:35:21
97	SAAU33	YBBN	150300		03:05:04	03:05:32	03:05:35
98	SAAU33	YBBN	150230		02:35:04	02:35:25	02:35:27
99	SAAU33	YBBN	150200		02:05:06	02:05:38	02:05:40
100	SAAU34	YBBN	150730		07:35:05	07:35:22	07:35:24
101	SAAU34	YBBN	150700		07:05:03	07:05:37	07:05:40
102	SAAU34	YBBN	150630		06:35:04	06:35:17	06:35:18
103	SAAU34	YBBN	150600		06:05:07	06:05:49	06:05:51
104	SAAU34	YBBN	150530		05:35:04	05:35:45	05:35:47
105	SAAU34	YBBN	150500		05:05:05	05:05:40	05:05:42
106	SAAU34	YBBN	150430		04:35:06	04:35:30	04:35:32
107	SAAU34	YBBN	150400		04:05:04	04:05:51	04:05:53

MET/IE WG/22
Appendix A to WP/11

108	SAAU34	YBBN	150330		03:35:05	03:35:25	03:35:28
109	SAAU34	YBBN	150300		03:05:05	03:05:43	03:05:45
110	SAAU34	YBBN	150230		02:35:05	02:35:35	02:35:37
111	SAAU34	YBBN	150200		02:05:08	02:05:47	02:05:49
112	SAAU35	YBBN	150730		07:35:06	07:35:24	07:35:26
113	SAAU35	YBBN	150700		07:05:04	07:05:41	07:05:43
114	SAAU35	YBBN	150630		06:35:04	06:35:19	06:35:21
115	SAAU35	YBBN	150600		06:05:07	06:05:54	06:05:56
116	SAAU35	YBBN	150530		05:35:04	05:35:47	05:35:49
117	SAAU35	YBBN	150500		05:05:05	05:05:38	05:05:40
118	SAAU35	YBBN	150430		04:35:06	04:35:32	04:35:34
119	SAAU35	YBBN	150400		04:05:04	04:05:54	04:05:56
120	SAAU35	YBBN	150330		03:35:05	03:35:32	03:35:34
121	SAAU35	YBBN	150300		03:05:06	03:05:46	03:05:48
122	SAAU35	YBBN	150230		02:35:06	02:35:38	02:35:40
123	SAAU35	YBBN	150200		02:05:08	02:05:49	02:05:51
124	SAAU36	YBBN	150730		07:35:06	07:35:34	07:35:36
125	SAAU36	YBBN	150700		07:05:05	07:05:56	07:05:58
126	SAAU36	YBBN	150630		06:35:05	06:35:30	06:35:33
127	SAAU36	YBBN	150600		06:05:06	06:05:51	06:05:53
128	SAAU36	YBBN	150530		05:35:03	05:35:38	05:35:40
129	SAAU36	YBBN	150500		05:05:04	05:05:32	05:05:34
130	SAAU36	YBBN	150430		04:35:05	04:35:20	04:35:22
131	SAAU36	YBBN	150400		04:05:03	04:05:41	04:05:44
132	SAAU36	YBBN	150330		03:35:03	03:35:22	03:35:25
133	SAAU36	YBBN	150300		03:05:05	03:05:36	03:05:38
134	SAAU36	YBBN	150230	RRA	02:45:02	02:45:23	02:45:25
135	SAAU36	YBBN	150230		02:35:04	02:35:28	02:35:30
136	SAAU36	YBBN	150200		02:05:07	02:05:41	02:05:43
137	SABN31	OBBI	150800		08:00:15	08:00:19	08:00:21
138	SABN31	OBBI	150730		07:30:12	07:30:18	07:30:19
139	SABN31	OBBI	150700	CCA	07:06:10	07:06:09	07:06:10
140	SABN31	OBBI	150700		07:00:14	07:00:11	07:00:13
141	SABN31	OBBI	150630		06:30:13	06:30:19	06:30:21
142	SABN31	OBBI	150600		06:00:08	06:00:06	06:00:08
143	SABN31	OBBI	150530		05:30:14	05:30:21	05:30:22
144	SABN31	OBBI	150500		05:00:15	05:00:15	05:00:17
145	SABN31	OBBI	150430		04:30:12	04:30:23	04:30:25
146	SABN31	OBBI	150400		04:00:13	04:00:22	04:00:24
147	SABN31	OBBI	150330		03:30:24	03:30:22	03:30:24
148	SABN31	OBBI	150300		03:00:21	03:00:18	03:00:20
149	SABN31	OBBI	150230		02:30:13	02:30:20	02:30:22
150	SABN31	OBBI	150200		02:00:11	02:00:11	02:00:13
151	SACI31	ZBBB	150730		07:35:09	07:35:37	07:35:39
152	SACI31	ZBBB	150700		07:05:53	07:06:32	07:06:35
153	SACI31	ZBBB	150630		06:35:08	06:36:30	06:36:33
154	SACI31	ZBBB	150600		06:06:08	06:06:05	06:06:08
155	SACI31	ZBBB	150530		05:35:10	05:35:50	05:35:53
156	SACI31	ZBBB	150500		05:05:41	05:05:48	05:05:51
157	SACI31	ZBBB	150441	RRA	04:42:31	04:42:35	04:42:36
158	SACI31	ZBBB	150430		04:35:09	04:35:35	04:35:38
159	SACI31	ZBBB	150400		04:05:13	04:05:59	04:06:02
160	SACI31	ZBBB	150330		03:35:09	03:35:35	03:35:39
161	SACI31	ZBBB	150300		03:05:22	03:05:51	03:05:54
162	SACI31	ZBBB	150230		02:35:08	02:35:46	02:35:49
163	SACI31	ZBBB	150200		02:05:18	02:05:54	02:05:58
164	SACI32	ZBBB	150700		07:05:53	07:06:36	07:06:39
165	SACI32	ZBBB	150600		06:06:13	06:06:12	06:06:15
166	SACI32	ZBBB	150500		05:05:42	05:05:58	05:06:01

MET/IE WG/22
Appendix A to WP/11

167	SACI32	ZBBB	150400		04:05:19	04:06:08	04:06:11
168	SACI32	ZBBB	150300		03:05:22	03:05:55	03:05:58
169	SACI32	ZBBB	150200		02:05:21	02:06:08	02:06:11
170	SACI41	ZBBB	150700		07:05:53	07:06:40	07:06:43
171	SACI41	ZBBB	150600		06:06:13	06:06:28	06:06:30
172	SACI41	ZBBB	150500		05:05:42	05:06:03	05:06:06
173	SACI41	ZBBB	150400		04:05:26	04:06:23	04:06:26
174	SACI41	ZBBB	150300		03:05:28	03:06:11	03:06:15
175	SACI41	ZBBB	150200		02:06:21	02:06:18	02:06:21
176	SAHK31	VHHH	150730		07:36:10	07:36:29	07:36:31
177	SAHK31	VHHH	150700		07:06:13	07:06:28	07:06:31
178	SAHK31	VHHH	150630		06:36:11	06:36:27	06:36:29
179	SAHK31	VHHH	150600		06:06:54	06:07:12	06:07:16
180	SAHK31	VHHH	150530		05:36:16	05:36:30	05:36:32
181	SAHK31	VHHH	150500	CCA	05:20:59	05:21:07	05:21:09
182	SAHK31	VHHH	150500		05:06:07	05:06:26	05:06:29
183	SAHK31	VHHH	150430		04:36:15	04:36:33	04:36:36
184	SAHK31	VHHH	150400		04:06:13	04:06:28	04:06:31
185	SAHK31	VHHH	150330		03:36:16	03:36:32	03:36:35
186	SAHK31	VHHH	150300	CCA	03:15:14	03:15:30	03:15:33
187	SAHK31	VHHH	150300		03:06:14	03:06:31	03:06:34
188	SAHK31	VHHH	150230		02:36:07	02:36:13	02:36:16
189	SAHK31	VHHH	150200		02:06:15	02:06:50	02:06:53
190	SAID31	WIII	150800		07:56:22	07:56:20	07:56:21
191	SAID31	WIII	150730		07:28:10	07:28:08	07:28:09
192	SAID31	WIII	150700		06:58:46	06:58:43	06:58:45
193	SAID31	WIII	150630		06:28:06	06:28:04	06:28:05
194	SAID31	WIII	150600		05:59:54	05:59:52	05:59:54
195	SAID31	WIII	150530		05:29:50	05:29:49	05:29:50
196	SAID31	WIII	150430	CCA	05:12:35	05:12:32	05:12:34
197	SAID31	WIII	150500		05:10:06	05:10:24	05:10:27
198	SAID31	WIII	150430		04:40:08	04:40:23	04:40:26
199	SAID31	WIII	150400		03:57:07	03:57:03	03:57:05
200	SAID31	WIII	150330		03:28:14	03:28:11	03:28:13
201	SAID31	WIII	150300		03:10:02	03:10:21	03:10:24
202	SAID31	WIII	150230		02:39:53	02:40:02	02:40:04
203	SAID31	WIII	150200		02:01:55	02:01:53	02:01:55
204	SAID32	WIII	150600		06:10:13	06:10:36	06:10:38
205	SAID32	WIII	150530		05:40:21	05:40:30	05:40:33
206	SAID32	WIII	150500		05:10:19	05:10:38	05:10:40
207	SAID32	WIII	150430		04:40:18	04:40:29	04:40:31
208	SAID32	WIII	150400		04:10:09	04:10:29	04:10:31
209	SAID32	WIII	150330		03:40:19	03:40:35	03:40:38
210	SAID32	WIII	150300		03:10:12	03:10:35	03:10:37
211	SAID32	WIII	150230		02:39:59	02:40:08	02:40:11
212	SAID32	WIII	150200		02:09:53	02:10:03	02:10:06
213	SAID33	WIII	150600		06:10:08	06:10:29	06:10:32
214	SAID33	WIII	150530		05:40:15	05:40:28	05:40:30
215	SAID33	WIII	150500		05:10:09	05:10:33	05:10:35
216	SAID33	WIII	150430		04:40:14	04:40:26	04:40:28
217	SAID33	WIII	150400		04:10:07	04:10:26	04:10:28
218	SAID33	WIII	150330		03:40:13	03:40:32	03:40:34
219	SAID33	WIII	150300		03:10:11	03:10:32	03:10:34
220	SAID33	WIII	150230		02:39:55	02:40:05	02:40:08
221	SAID33	WIII	150200		02:09:48	02:11:24	02:11:25
222	SAIN31	VABB	150730		07:47:08	07:47:29	07:47:32
223	SAIN31	VABB	150700		07:17:12	07:17:28	07:17:31
224	SAIN31	VABB	150630		06:47:09	06:47:27	06:47:30
225	SAIN31	VABB	150600		06:17:18	06:17:36	06:17:39

MET/IE WG/22
Appendix A to WP/11

226	SAIN31	VABB	150530		05:47:51	05:48:04	05:48:07
227	SAIN31	VABB	150500		05:17:11	05:17:28	05:17:31
228	SAIN31	VABB	150430		04:47:09	04:47:24	04:47:27
229	SAIN31	VABB	150400		04:17:08	04:17:15	04:17:18
230	SAIN31	VABB	150330		03:47:06	03:47:22	03:47:26
231	SAIN31	VABB	150300		03:17:13	03:17:31	03:17:35
232	SAIN31	VABB	150230		02:47:20	02:47:31	02:47:34
233	SAIN31	VABB	150200		02:17:09	02:17:21	02:17:24
234	SAIN32	VIDP	150730		07:37:17	07:37:25	07:37:27
235	SAIN32	VIDP	150700		07:09:01	07:09:18	07:09:20
236	SAIN32	VIDP	150630		06:39:38	06:39:48	06:39:50
237	SAIN32	VIDP	150600		06:08:58	06:09:08	06:09:10
238	SAIN32	VIDP	150530		05:37:52	05:37:56	05:37:59
239	SAIN32	VIDP	150500		05:09:51	05:10:04	05:10:07
240	SAIN32	VIDP	150430		04:37:24	04:37:43	04:37:45
241	SAIN32	VIDP	150400		04:07:53	04:08:03	04:08:05
242	SAIN32	VIDP	150330		03:37:18	03:37:33	03:37:35
243	SAIN32	VIDP	150300		03:07:23	03:07:42	03:07:45
244	SAIN32	VIDP	150230	RRB	02:47:23	02:47:35	02:47:37
245	SAIN32	VIDP	150230		02:37:24	02:37:40	02:37:43
246	SAIN32	VIDP	150200	RRB	02:17:18	02:17:25	02:17:27
247	SAIN32	VIDP	150200	CCB	02:12:42	02:13:00	02:13:02
248	SAIN32	VIDP	150200	CCA	02:12:01	02:12:20	02:12:22
249	SAIN32	VIDP	150200		02:07:25	02:07:37	02:07:39
250	SAIN33	VECC	150730		07:38:13	07:38:28	07:38:31
251	SAIN33	VECC	150700		07:08:12	07:08:29	07:08:32
252	SAIN33	VECC	150630		06:38:22	06:38:37	06:38:40
253	SAIN33	VECC	150600		06:08:11	06:08:31	06:08:34
254	SAIN33	VECC	150530		05:38:11	05:38:31	05:38:34
255	SAIN33	VECC	150500		05:08:10	05:08:24	05:08:27
256	SAIN33	VECC	150430		04:38:08	04:38:23	04:38:26
257	SAIN33	VECC	150400	RRA	04:18:09	04:18:16	04:18:18
258	SAIN33	VECC	150400		04:08:09	04:08:43	04:08:46
259	SAIN33	VECC	150330		03:38:11	03:38:26	03:38:29
260	SAIN33	VECC	150300		03:08:06	03:08:41	03:08:44
261	SAIN33	VECC	150230	RRA	02:48:06	02:48:11	02:48:13
262	SAIN33	VECC	150230		02:38:06	02:38:15	02:38:18
263	SAIN33	VECC	150200	RRA	02:18:07	02:18:20	02:18:22
264	SAIN33	VECC	150200		02:08:07	02:08:28	02:08:32
265	SAIR31	OIII	150800		08:03:05	08:03:35	08:03:38
266	SAIR31	OIII	150730		07:33:04	07:33:23	07:33:25
267	SAIR31	OIII	150700		07:03:08	07:03:27	07:03:30
268	SAIR31	OIII	150630		06:33:07	06:33:26	06:33:30
269	SAIR31	OIII	150600		06:03:06	06:03:37	06:03:39
270	SAIR31	OIII	150530		05:33:05	05:33:20	05:33:22
271	SAIR31	OIII	150500		05:03:05	05:03:19	05:03:21
272	SAIR31	OIII	150430		04:33:03	04:33:16	04:33:18
273	SAIR31	OIII	150400	RRA	04:20:22	04:20:25	04:20:27
274	SAIR31	OIII	150400		04:03:02	04:03:12	04:03:15
275	SAIR31	OIII	150330	RRA	03:34:56	03:35:12	03:35:14
276	SAIR31	OIII	150330		03:33:06	03:33:15	03:33:17
277	SAIR31	OIII	150300		03:03:07	03:03:36	03:03:39
278	SAIR31	OIII	150230		02:33:05	02:33:23	02:33:25
279	SAIR31	OIII	150200	RRA	02:05:40	02:06:29	02:06:30
280	SAIR31	OIII	150200		02:03:05	02:03:38	02:03:40
281	SAJP31	RJTD	150700		07:06:44	07:06:57	07:07:00
282	SAJP31	RJTD	150600		06:06:44	06:06:56	06:06:58
283	SAJP31	RJTD	150500		05:06:44	05:06:45	05:06:48
284	SAJP31	RJTD	150400		04:06:43	04:07:03	04:07:05

MET/IE WG/22
Appendix A to WP/11

285	SAJP31	RJTD	150300		03:06:44	03:07:21	03:07:24
286	SAJP31	RJTD	150200		02:06:43	02:06:55	02:06:57
287	SAJP32	RJTD	150700	RRR	07:06:46	07:07:04	07:07:06
288	SAJP32	RJTD	150700		07:06:45	07:07:00	07:07:03
289	SAJP32	RJTD	150600	RRR	06:06:45	06:07:03	06:07:05
290	SAJP32	RJTD	150600		06:06:44	06:06:59	06:07:02
291	SAJP32	RJTD	150500	RRR	05:06:45	05:07:08	05:07:10
292	SAJP32	RJTD	150500		05:06:44	05:06:48	05:06:51
293	SAJP32	RJTD	150400	RRR	04:06:45	04:07:09	04:07:11
294	SAJP32	RJTD	150400		04:06:45	04:07:06	04:07:08
295	SAJP32	RJTD	150300	RRR	03:06:45	03:07:32	03:07:34
296	SAJP32	RJTD	150300		03:06:45	03:07:28	03:07:31
297	SAJP32	RJTD	150200	RRR	02:06:44	02:07:02	02:07:04
298	SAJP32	RJTD	150200		02:06:44	02:06:58	02:07:01
299	SAJP38	RJTD	150700	RRR	07:06:47	07:07:06	07:07:09
300	SAJP38	RJTD	150700		07:06:46	07:07:09	07:07:12
301	SAJP38	RJTD	150600	RRR	06:06:46	06:07:09	06:07:11
302	SAJP38	RJTD	150600		06:06:45	06:07:06	06:07:08
303	SAJP38	RJTD	150500		05:06:46	05:07:10	05:07:12
304	SAJP38	RJTD	150500	RRR	05:06:46	05:07:04	05:07:07
305	SAJP38	RJTD	150400	RRR	04:06:47	04:07:15	04:07:17
306	SAJP38	RJTD	150400		04:06:46	04:07:11	04:07:14
307	SAJP38	RJTD	150300	RRR	03:06:46	03:07:34	03:07:37
308	SAJP38	RJTD	150300		03:06:46	03:07:25	03:07:27
309	SAJP38	RJTD	150200	RRR	02:06:45	02:07:08	02:07:10
310	SAJP38	RJTD	150200		02:06:45	02:07:04	02:07:07
311	SAKO31	RKSI	150730		07:34:40	07:34:58	07:35:00
312	SAKO31	RKSI	150700		07:04:33	07:04:42	07:04:45
313	SAKO31	RKSI	150630		06:34:36	06:34:47	06:34:48
314	SAKO31	RKSI	150600		06:04:35	06:04:56	06:04:58
315	SAKO31	RKSI	150530		05:34:39	05:34:47	05:34:48
316	SAKO31	RKSI	150500		05:04:35	05:04:54	05:04:57
317	SAKO31	RKSI	150430		04:34:37	04:34:54	04:34:55
318	SAKO31	RKSI	150400		04:04:37	04:04:53	04:04:55
319	SAKO31	RKSI	150330		03:34:38	03:34:42	03:34:44
320	SAKO31	RKSI	150300	RRR	03:06:16	03:06:35	03:06:37
321	SAKO31	RKSI	150300		03:04:37	03:04:51	03:04:54
322	SAKO31	RKSI	150230		02:34:35	02:34:50	02:34:52
323	SAKO31	RKSI	150200		02:04:37	02:04:50	02:04:52
324	SAMS31	WMKK	150730	RRR	07:52:04	07:52:19	07:52:21
325	SAMS31	WMKK	150730	RRR	07:46:02	07:46:19	07:46:20
326	SAMS31	WMKK	150730		07:38:06	07:38:18	07:38:21
327	SAMS31	WMKK	150700	RRD	07:52:04	07:52:23	07:52:25
328	SAMS31	WMKK	150700	RRR	07:44:01	07:44:10	07:44:11
329	SAMS31	WMKK	150700	RRR	07:28:04	07:28:18	07:28:20
330	SAMS31	WMKK	150700	RRR	07:10:06	07:10:20	07:10:21
331	SAMS31	WMKK	150700		07:08:07	07:08:18	07:08:20
332	SAMS31	WMKK	150630	RRR	06:40:01	06:40:19	06:40:21
333	SAMS31	WMKK	150630		06:38:01	06:38:17	06:38:19
334	SAMS31	WMKK	150600	RRR	06:40:02	06:40:22	06:40:24
335	SAMS31	WMKK	150600		06:08:02	06:08:22	06:08:25
336	SAMS31	WMKK	150530	RRR	06:40:02	06:40:17	06:40:19
337	SAMS31	WMKK	150530		05:38:01	05:38:20	05:38:22
338	SAMS31	WMKK	150500	RRR	05:18:06	05:18:15	05:18:17
339	SAMS31	WMKK	150430	RRR	05:18:06	05:18:21	05:18:23
340	SAMS31	WMKK	150400		04:08:03	04:08:23	04:08:25
341	SAMS31	WMKK	150330	CCA	04:14:03	04:14:13	04:14:15
342	SAMS31	WMKK	150330		03:38:05	03:38:22	03:38:25
343	SAMS31	WMKK	150300		03:08:06	03:08:21	03:08:24

MET/IE WG/22
Appendix A to WP/11

344	SAMS31	WMKK	150230		02:38:05	02:38:12	02:38:14
345	SAMS31	WMKK	150200		02:08:02	02:08:10	02:08:12
346	SAMS38	WMKK	150700	RRE	07:52:05	07:52:26	07:52:27
347	SAMS38	WMKK	150700	RRD	07:50:03	07:50:19	07:50:21
348	SAMS38	WMKK	150700	RRC	07:38:06	07:38:24	07:38:25
349	SAMS38	WMKK	150700	RRB	07:30:00	07:30:20	07:30:21
350	SAMS38	WMKK	150700	RRA	07:12:01	07:12:18	07:12:19
351	SAMS38	WMKK	150700		07:08:07	07:08:21	07:08:23
352	SAMS38	WMKK	150500	CCA	06:26:05	06:26:16	06:26:18
353	SAMS38	WMKK	150600		06:08:03	06:08:19	06:08:21
354	SAMS38	WMKK	150400	CCA	05:18:08	05:18:27	05:18:28
355	SAMS38	WMKK	150500	RRA	05:18:07	05:18:23	05:18:26
356	SAMS38	WMKK	150400		04:08:04	04:08:32	04:08:34
357	SAMS38	WMKK	150300		03:08:07	03:08:29	03:08:31
358	SAMS38	WMKK	150200		02:08:03	02:08:16	02:08:19
359	SANG31	YBBN	150700		07:05:04	07:05:44	07:05:47
360	SANG31	YBBN	150600		06:05:41	06:06:00	06:06:04
361	SANG31	YBBN	150600		06:05:04	06:05:38	06:05:41
362	SANG31	YBBN	150500	RRA	05:15:01	05:15:18	05:15:20
363	SANG31	YBBN	150500		05:05:06	05:05:43	05:05:45
364	SANG31	YBBN	150400		04:05:02	04:05:16	04:05:19
365	SANG31	YBBN	150300	RRA	03:15:03	03:15:26	03:15:28
366	SANG31	YBBN	150300		03:05:04	03:05:23	03:05:26
367	SANG31	YBBN	150200		02:05:06	02:05:34	02:05:37
368	SANZ31	NZKL	150730		07:35:43	07:35:52	07:35:54
369	SANZ31	NZKL	150700		07:05:08	07:06:03	07:06:05
370	SANZ31	NZKL	150630		06:35:35	06:35:55	06:35:57
371	SANZ31	NZKL	150600		06:05:03	06:05:31	06:05:33
372	SANZ31	NZKL	150530		05:35:55	05:36:23	05:36:25
373	SANZ31	NZKL	150500		05:05:38	05:06:16	05:06:18
374	SANZ31	NZKL	150430		04:35:08	04:35:39	04:35:41
375	SANZ31	NZKL	150400		04:05:12	04:05:57	04:05:59
376	SANZ31	NZKL	150330		03:35:45	03:36:00	03:36:03
377	SANZ31	NZKL	150300		03:05:34	03:06:23	03:06:25
378	SANZ31	NZKL	150230		02:35:10	02:35:43	02:35:45
379	SANZ31	NZKL	150200		02:05:32	02:06:24	02:06:26
380	SANZ32	NZKL	150730		07:35:43	07:35:55	07:35:56
381	SANZ32	NZKL	150700		07:05:07	07:06:01	07:06:03
382	SANZ32	NZKL	150630		06:35:35	06:35:53	06:35:54
383	SANZ32	NZKL	150600		06:05:03	06:05:29	06:05:31
384	SANZ32	NZKL	150530		05:35:55	05:36:25	05:36:27
385	SANZ32	NZKL	150500		05:05:38	05:06:19	05:06:20
386	SANZ32	NZKL	150430		04:35:08	04:35:41	04:35:43
387	SANZ32	NZKL	150400		04:05:12	04:06:05	04:06:07
388	SANZ32	NZKL	150330		03:35:45	03:36:03	03:36:05
389	SANZ32	NZKL	150300		03:05:34	03:06:21	03:06:22
390	SANZ32	NZKL	150230		02:35:11	02:35:50	02:35:52
391	SANZ32	NZKL	150200		02:05:32	02:06:22	02:06:24
392	SAPK31	OPKC	150800	RRA	08:01:40	08:02:02	08:02:04
393	SAPK31	OPKC	150800		08:01:02	08:01:39	08:01:41
394	SAPK31	OPKC	150730	RRA	07:31:41	07:31:54	07:31:56
395	SAPK31	OPKC	150730		07:31:10	07:31:29	07:31:31
396	SAPK31	OPKC	150700	RRB	07:01:48	07:02:03	07:02:06
397	SAPK31	OPKC	150700	RRA	07:01:42	07:01:58	07:02:00
398	SAPK31	OPKC	150700		07:01:22	07:01:38	07:01:41
399	SAPK31	OPKC	150630	RRA	06:31:34	06:31:37	06:31:40
400	SAPK31	OPKC	150630		06:31:15	06:31:19	06:31:21
401	SAPK31	OPKC	150600	RRB	06:02:25	06:02:26	06:02:28
402	SAPK31	OPKC	150600	RRA	06:01:38	06:01:51	06:01:53

MET/IE WG/22
Appendix A to WP/11

403	SAPK31	OPKC	150600		06:01:23	06:01:27	06:01:29
404	SAPK31	OPKC	150530	RRA	05:31:51	05:32:05	05:32:07
405	SAPK31	OPKC	150530		05:31:19	05:31:29	05:31:32
406	SAPK31	OPKC	150500	RRA	05:01:51	05:02:05	05:02:07
407	SAPK31	OPKC	150500		05:01:20	05:01:31	05:01:33
408	SAPK31	OPKC	150430	RRA	04:31:47	04:31:57	04:31:59
409	SAPK31	OPKC	150430		04:31:15	04:31:33	04:31:36
410	SAPK31	OPKC	150400	RRB	04:03:47	04:04:24	04:04:26
411	SAPK31	OPKC	150400	RRA	04:02:10	04:02:14	04:02:16
412	SAPK31	OPKC	150400		04:01:23	04:01:43	04:01:45
413	SAPK31	OPKC	150330	RRA	03:31:33	03:31:52	03:31:55
414	SAPK31	OPKC	150330		03:31:14	03:31:32	03:31:34
415	SAPK31	OPKC	150300	RRC	03:10:24	03:10:42	03:10:44
416	SAPK31	OPKC	150300	RRB	03:04:29	03:04:35	03:04:36
417	SAPK31	OPKC	150300	RRA	03:01:52	03:02:11	03:02:14
418	SAPK31	OPKC	150300		03:01:23	03:01:33	03:01:36
419	SAPK31	OPKC	150230	RRA	02:31:46	02:31:55	02:31:57
420	SAPK31	OPKC	150230		02:31:27	02:31:31	02:31:33
421	SAPK31	OPKC	150200	RRB	02:04:03	02:04:31	02:04:33
422	SAPK31	OPKC	150200	RRA	02:01:58	02:02:11	02:02:13
423	SAPK31	OPKC	150200		02:01:22	02:01:42	02:01:44
424	SAPS31	NFFN	150700		07:15:10	07:15:26	07:15:29
425	SAPS31	NFFN	150600		06:15:05	06:15:29	06:15:32
426	SAPS31	NFFN	150600		06:06:20	06:00:15	06:00:16
427	SAPS31	NFFN	150500		05:22:11	05:15:55	05:15:57
428	SAPS31	NFFN	150500		05:15:09	05:15:30	05:15:33
429	SAPS31	NFFN	150400		04:15:13	04:15:22	04:15:25
430	SAPS31	NFFN	150400		04:01:36	03:57:47	03:57:49
431	SAPS31	NFFN	150300		03:06:27	03:07:46	03:07:49
432	SAPS31	NFFN	150200		02:05:56	02:06:35	02:06:39
433	SAPS32	NFFN	150800		08:03:11	08:03:55	08:03:57
434	SAPS32	NFFN	150700		07:03:05	07:03:25	07:03:27
435	SAPS32	NFFN	150600		06:04:09	06:04:36	06:04:38
436	SAPS32	NFFN	150500		05:03:43	05:04:18	05:04:20
437	SAPS32	NFFN	150400		04:03:27	04:04:17	04:04:20
438	SAPS32	NFFN	150300		03:03:06	03:03:34	03:03:36
439	SAPS32	NFFN	150200		02:03:05	02:03:41	02:03:43
440	SAPS33	NFFN	150800		08:02:21	08:02:39	08:02:41
441	SAPS33	NFFN	150700		07:02:20	07:02:28	07:02:30
442	SAPS33	NFFN	150600		06:02:39	06:02:56	06:02:58
443	SAPS33	NFFN	150500		05:02:23	05:02:29	05:02:31
444	SAPS33	NFFN	150400		04:02:17	04:02:36	04:02:39
445	SAPS33	NFFN	150300		03:02:31	03:02:51	03:02:53
446	SAPS33	NFFN	150200		02:02:26	02:02:38	02:02:39
447	SASB31	VCCC	150710		07:15:34	07:15:32	07:15:33
448	SASB31	VCCC	150700		07:07:09	07:07:06	07:07:08
449	SASB31	VCCC	150610		06:15:06	06:15:02	06:15:04
450	SASB31	VCCC	150600		06:10:04	06:10:02	06:10:04
451	SASB31	VCCC	150510		05:16:13	05:16:11	05:16:12
452	SASB31	VCCC	150500		05:10:28	05:10:25	05:10:27
453	SASB31	VCCC	150400		04:09:35	04:09:32	04:09:33
454	SASB31	VCCC	150410		04:07:11	04:07:09	04:07:10
455	SASB31	VCCC	150310		03:12:51	03:12:49	03:12:51
456	SASB31	VCCC	150300		03:10:03	03:10:00	03:10:02
457	SASB31	VCCC	150210		02:16:18	02:16:15	02:16:16
458	SASB31	VCCC	150200		02:06:50	02:06:48	02:06:50
459	SASD31	OEJD	150800		08:00:04	08:00:21	08:00:23
460	SASD31	OEJD	150700	CCA	07:05:09	07:06:07	07:06:08
461	SASD31	OEJD	150700		07:00:08	07:00:31	07:00:33

MET/IE WG/22
Appendix A to WP/11

462	SASD31	OEJD	150600		06:03:03	06:03:28	06:03:30
463	SASD31	OEJD	150500		05:00:07	05:00:23	05:00:26
464	SASD31	OEJD	150400		04:00:05	04:00:25	04:00:28
465	SASD31	OEJD	150300		03:00:30	03:00:31	03:00:34
466	SASD31	OEJD	150200		02:00:04	02:00:13	02:00:15
467	SATH31	VTBB	150700		07:05:18	-	07:05:18
468	SATH31	VTBB	150600	CCA	06:12:52	-	06:12:52
469	SATH31	VTBB	150600	RRA	06:10:56	-	06:10:56
470	SATH31	VTBB	150600		06:05:18	-	06:05:17
471	SATH31	VTBB	150500		05:05:17	-	05:05:17
472	SATH31	VTBB	150400	RRB	04:17:48	-	04:17:48
473	SATH31	VTBB	150400	RRA	04:08:31	-	04:08:31
474	SATH31	VTBB	150400		04:05:21	-	04:05:20
475	SATH31	VTBB	150300		03:05:20	-	03:05:19
476	SATH31	VTBB	150200		02:05:18	-	02:05:18
477	SATH32	VTBB	150700		07:05:22	-	07:05:22
478	SATH32	VTBB	150600		06:05:22	-	06:05:21
479	SATH32	VTBB	150500		05:05:21	-	05:05:21
480	SATH32	VTBB	150400		04:05:26	-	04:05:26
481	SATH32	VTBB	150300		03:05:24	-	03:05:24
482	SATH32	VTBB	150200		02:05:22	-	02:05:22
483	SATH33	VTBB	150700		07:05:27	-	07:05:27
484	SATH33	VTBB	150600		06:05:26	-	06:05:26
485	SATH33	VTBB	150500		05:05:25	-	05:05:25
486	SATH33	VTBB	150400		04:05:31	-	04:05:30
487	SATH33	VTBB	150300		03:05:28	-	03:05:28
488	SATH33	VTBB	150200	CCA	02:06:48	-	02:06:47
489	SATH33	VTBB	150200		02:05:26	-	02:05:26

MET/IE WG/22
Appendix A to WP/11

Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins on 15 September 2023

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	150500		05:35:05	-	05:35:03
2	FTAE32	VTBB	150500		05:35:09	-	05:35:07
3	FTAE33	VTBB	150500		05:35:11	-	05:35:11
4	FTAE34	VTBB	150500	AAA	07:40:44	-	07:40:44
5	FTAE34	VTBB	150500		05:35:15	-	05:35:15
6	FTAU31	YBBN	150600		06:18:27	06:18:46	06:18:48
7	FTAU31	YBBN	150500		05:11:27	05:11:44	05:11:46
8	FTAU31	YBBN	150200		02:50:01	02:50:21	02:50:23
9	FTAU31	YBBN	150200	RRA	02:20:04	02:20:20	02:20:22
10	FTAU31	YBBN	150200		02:10:34	02:10:50	02:10:51
11	FTAU32	YBBN	150500	RRA	05:35:03	05:35:36	05:35:37
12	FTAU32	YBBN	150500		05:10:46	05:10:55	05:10:57
13	FTAU32	YBBN	150400		04:23:54	04:24:13	04:24:15
14	FTAU32	YBBN	150200		02:28:49	02:28:54	02:28:56
15	FTAU33	YBBN	150500		05:35:01	05:35:15	05:35:17
16	FTAU34	YBBN	150500		05:00:05	05:00:17	05:00:19
17	FTAU35	YBBN	150700	RRA	07:20:05	07:20:09	07:20:11
18	FTAU35	YBBN	150700		07:00:01	07:00:08	07:00:10
19	FTAU35	YBBN	150500		05:47:34	05:47:39	05:47:40
20	FTAU36	YBBN	150500		05:04:53	05:04:59	05:05:00
21	FTAU36	YBBN	150400		04:17:09	04:17:19	04:17:21
22	FTAU36	YBBN	150300		03:25:31	03:25:42	03:25:44
23	FTAU36	YBBN	150200		02:39:28	02:39:40	02:39:42
24	FTAU36	YBBN	150200		02:35:06	02:35:40	02:35:43
25	FTBN31	OBBI	150500		04:34:44	04:34:53	04:34:56
26	FTCI31	ZBBB	150400		04:00:52	04:00:45	04:00:48
27	FTCI32	ZBBB	150451	CCA	04:51:21	04:51:34	04:51:36
28	FTCI32	ZBBB	150449	RRA	04:49:04	04:50:54	04:50:56
29	FTCI32	ZBBB	150400		04:00:53	04:00:52	04:00:56
30	FTCI41	ZBBB	150400		04:00:55	04:00:59	04:01:02
31	FTHK31	VHHH	150800		08:02:27	08:02:42	08:02:44
32	FTHK31	VHHH	150500		05:02:50	05:03:04	05:03:06
33	FTHK31	VHHH	150200		02:01:30	02:01:46	02:01:48
34	FTHK32	VHHH	150500		05:20:09	05:20:20	05:20:22
35	FTHK33	VHHH	150500		05:20:09	05:20:23	05:20:26
36	FTIN31	VABB	150500		05:47:31	05:48:58	05:49:00
37	FTIN32	VABB	150500	PZC	05:47:45	05:48:02	05:49:43
38	FTIN32	VABB	150500	PAB	05:47:44	05:48:01	05:49:33
39	FTIN32	VABB	150500	PAA	05:47:43	05:49:20	05:49:22
40	FTIN32	VABB	142300	CCA	03:56:04	03:56:13	03:56:15
41	FTIR31	OIII	150500	RRA	05:55:25	05:55:36	05:55:38
42	FTIR32	OIII	150500	RRA	05:55:45	05:55:59	05:56:01
43	FTIR33	OIII	150500	RRA	05:56:10	05:56:20	05:56:22
44	FTIR34	OIII	150500	RRA	05:56:11	05:56:22	05:56:24
45	FTJP31	RJTD	150500	AAA	07:10:54	07:11:08	07:11:09
46	FTJP31	RJTD	150500		05:27:32	05:27:47	05:27:49
47	FTJP31	RJTD	150500	RRA	05:27:33	05:27:45	05:27:47
48	FTJP31	RJTD	142300	AAB	03:07:17	03:07:40	03:07:42
49	FTJP31	RJTD	142300	AAA	03:06:50	03:07:38	03:07:40

MET/IE WG/22
Appendix A to WP/11

50	FTJP32	RJTD	150500	AAC	07:56:49	07:57:09	07:57:10
51	FTJP32	RJTD	150500	AAB	07:54:44	07:54:50	07:54:51
52	FTJP32	RJTD	150500	AAA	06:19:44	06:19:56	06:19:58
53	FTJP32	RJTD	150500	RRA	05:27:34	05:27:55	05:27:57
54	FTJP32	RJTD	150500	RRB	05:27:34	05:27:53	05:27:54
55	FTJP32	RJTD	150500		05:27:34	05:27:50	05:27:52
56	FTJP32	RJTD	142300	AAB	02:03:26	02:04:26	02:04:27
57	FTJP38	RJTD	150500	RRB	05:27:36	05:28:04	05:28:06
58	FTJP38	RJTD	150500	RRA	05:27:36	05:28:01	05:28:03
59	FTJP38	RJTD	150500		05:27:36	05:27:58	05:28:00
60	FTJP38	RJTD	142300	AAA	04:04:42	04:04:56	04:04:58
61	FTKO31	RKSI	150710	AAA	07:44:28	07:44:39	07:44:40
62	FTKO31	RKSI	150600	AAA	06:33:30	06:25:00	06:25:02
63	FTKO31	RKSI	150625	AAA	06:22:12	06:22:18	06:22:19
64	FTKO31	RKSI	150500	CCA	06:03:31	06:04:06	06:04:08
65	FTKO31	RKSI	150500	RRC	05:09:24	05:09:34	05:09:36
66	FTKO31	RKSI	150500	RRB	05:07:37	05:07:47	05:07:49
67	FTKO31	RKSI	150500	RRA	05:07:24	05:07:25	05:07:26
68	FTKO31	RKSI	150500		05:05:55	05:06:23	05:06:25
69	FTKO31	RKSI	150315	AAA	03:12:50	03:13:03	03:13:05
70	FTNG31	YBBN	150500	RRA	05:15:01	05:15:16	05:15:18
71	FTNZ31	NZKL	150500		05:36:25	05:36:46	05:36:48
72	FTNZ31	NZKL	150200		02:07:11	02:07:30	02:07:31
73	FTPK31	OPKC	150500		05:35:19	05:36:07	05:36:10
74	FTPS31	NFFN	150500		05:09:29	05:09:37	05:09:39
75	FTPS32	NFFN	150500		05:33:49	05:34:06	05:34:07
76	FTPS33	NFFN	150500		05:16:19	05:16:37	05:16:38
77	FTSD31	OEJD	150500		05:30:06	05:30:23	05:30:25
78	FTSR31	WSSS	150500	AAA	08:00:17	08:00:37	08:00:39
79	FTSR31	WSSS	150500		05:07:41	05:08:04	05:08:07
80	FTSR32	WSSS	150500	RRC	06:27:58	06:28:18	06:28:20
81	FTSR32	WSSS	150500	RRB	05:59:37	05:59:46	05:59:48
82	FTSR32	WSSS	150500	RRA	05:45:50	05:46:05	05:46:08
83	FTSR32	WSSS	150500		05:08:33	05:08:54	05:08:57
84	FTSR32	WSSS	142300	AAA	02:58:38	02:58:51	02:58:53
85	FTSR33	WSSS	150500	RRA	05:47:36	05:47:56	05:48:00
86	FTSR33	WSSS	150500		05:10:01	05:10:28	05:10:30
87	FTTH31	VTBB	150500		05:35:19	-	05:35:20
88	FTTH32	VTBB	150500		05:35:24	-	05:35:24
89	FTTH33	VTBB	150500		05:35:29	-	05:35:29
90	FTTM31	YBBN	150500		05:35:02	05:35:18	05:35:20
