



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 BACKUP EXERCISE BETWEEN
IROG SINGAPORE AND IROG BANGKOK**

(Presented by Singapore)

SUMMARY

This paper presents the results of the sixth IROG backup exercise between IROG Singapore and IROG Bangkok as part of the IROGs' maintenance of business continuity during unforeseen events in the Region.

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 IROG Bangkok in the event IROG Singapore experiences technical problems.

1.2 The MET/IE WG/15 Meeting agreed to consider a broader programme for IROG backup procedures to include conducting regular backup exercises. In Workplan Activity 5.2, all IROGs were required to review their respective IROG backup procedures. As IROG Singapore and IROG Bangkok serve as a back-up to one another, both IROGs reviewed their existing procedures which were presented and adopted at the MET/IE WG/16 Meeting.

2. DISCUSSION

2.1 As part of the backup arrangement procedures, real-time backup exercises are to be conducted annually to validate the dissemination process for notification between IROG Singapore and IROG Bangkok, and to ensure that the procedures for handover and takeover of responsibility are functional.

2.2 The sixth IROG backup exercise between IROG Singapore and IROG Bangkok in the event IROG Bangkok experiences technical difficulties with prolonged downtime was conducted on 26 September 2023.

2.3 During the exercise, IROG Singapore took over IROG Bangkok's role in relaying the OPMET messages from ASIA/PAC to MID and from ASIA to AFI between 0200 UTC and 0800 UTC. Both IROGs monitored and recorded the reception and transmission of the OPMET messages (see Appendix A). A summary of the results is listed in Table 1(below).

Type of Message	No. of Bulletins Received by IROG		No. of Bulletins Routed to MID/AFI by IROG Singapore	Successful Transmission Rate	No. of Bulletins Not Successfully Routed by IROG Singapore
	Bangkok	Singapore			
SA Bulletin	557	557	557	100%	0
FT Bulletin	89	89	89	100%	0
Total	646	646	646	100%	0

Table 1: Summary of the Reception and Transmission of OPMET Messages

3. CONCLUSION

3.1 IROG Singapore successfully routed 557 out of 557 (100%) METAR bulletins and 89 out of 89 (100%) TAF bulletins to MID/AFI during the exercise.

3.2 The exercise validated the dissemination process for notification between IROG Singapore and IROG Bangkok. The procedures for handover and takeover of responsibility are also tested to be functional in the event IROG Bangkok experiences technical problems.

4. ACTION BY THE MEETING

4.1 The meeting is invited to discuss the following:

- a) The results of the IROG backup exercise; and
- b) The necessary follow-up issues arising from the exercise, if any.

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APPENDIX A: Summary of ASIA/PAC Bulletin Switching on 26 September 2023

					METAR Bulletins			
					Recorded by	Recorded by	Recorded by	Recorded by
					VTBB RODB	WSSS RODB	WSSS RODB	WSSS RODB
					RX Time UTC	RX Time UTC	TX Time UTC to MID	TX Time UTC to AFI
	TTAAii	CCCC	YYGGgg	BBB	(hh:mm)	(hh:mm)	(hh:mm)	(hh:mm)
1	SAAE31	VTBB	260200		02:05:02	02:05:03	02:05:03	02:05:03
2	SAAE31	VTBB	260230	RRA	02:41:50	02:42:01	02:42:01	02:42:01
3	SAAE31	VTBB	260230		02:35:01	02:35:02	02:35:02	02:35:02
4	SAAE31	VTBB	260300	RRA	03:11:05	03:11:07	03:11:07	03:11:07
5	SAAE31	VTBB	260300		03:05:02	03:05:02	03:05:02	03:05:02
6	SAAE31	VTBB	260330		03:35:02	03:35:03	03:35:03	03:35:03
7	SAAE31	VTBB	260400		04:05:01	04:05:02	04:05:02	04:05:02
8	SAAE31	VTBB	260430		04:35:02	04:35:03	04:35:03	04:35:03
9	SAAE31	VTBB	260500		05:05:02	05:05:03	05:05:03	05:05:03
10	SAAE31	VTBB	260530		05:35:02	05:35:03	05:35:03	05:35:03
11	SAAE31	VTBB	260600		06:05:01	06:05:02	06:05:02	06:05:02
12	SAAE31	VTBB	260630	RRA	06:51:50	06:51:54	06:51:54	06:51:54
13	SAAE31	VTBB	260630		06:35:02	06:35:03	06:35:03	06:35:03
14	SAAE31	VTBB	260700		07:05:02	07:05:03	07:05:03	07:05:03
15	SAAE31	VTBB	260730		07:35:02	07:35:03	07:35:03	07:35:03
16	SAAE31	VTBB	260800		08:05:01	08:05:02	08:05:02	08:05:02
17	SAAE32	VTBB	260200	RRC	02:16:50	02:16:59	02:17:00	02:17:00
18	SAAE32	VTBB	260200	RRB	02:16:50	02:16:56	02:17:00	02:17:00
19	SAAE32	VTBB	260200	RRA	02:10:15	02:10:18	02:10:18	02:10:18
20	SAAE32	VTBB	260200		02:05:05	02:05:06	02:05:06	02:05:06
21	SAAE32	VTBB	260230	RRA	02:37:44	02:37:46	02:37:46	02:37:46
22	SAAE32	VTBB	260230		02:35:02	02:35:05	02:35:05	02:35:05
23	SAAE32	VTBB	260300	RRA	03:09:10	03:09:17	03:09:17	03:09:17
24	SAAE32	VTBB	260300		03:05:04	03:05:06	03:05:06	03:05:06
25	SAAE32	VTBB	260330	RRA	03:48:30	03:48:32	03:48:32	03:48:32
26	SAAE32	VTBB	260330		03:35:02	03:35:06	03:35:06	03:35:06
27	SAAE32	VTBB	260400		04:05:02	04:05:07	04:05:07	04:05:07
28	SAAE32	VTBB	260430		04:35:02	04:35:05	04:35:05	04:35:05
29	SAAE32	VTBB	260500		05:05:02	05:05:07	05:05:07	05:05:07
30	SAAE32	VTBB	260530		05:35:03	05:35:09	05:35:09	05:35:09
31	SAAE32	VTBB	260600		06:05:02	06:05:06	06:05:06	06:05:06
32	SAAE32	VTBB	260630		06:35:02	06:35:06	06:35:06	06:35:06
33	SAAE32	VTBB	260700		07:05:02	07:05:05	07:05:05	07:05:05
34	SAAE32	VTBB	260730		07:35:02	07:35:05	07:35:05	07:35:05
35	SAAE32	VTBB	260800		08:05:02	08:05:05	08:05:05	08:05:05
36	SAAE33	VTBB	260200		02:05:03	02:05:09	02:05:09	02:05:09
37	SAAE33	VTBB	260300		03:05:04	03:05:17	03:05:17	03:05:17

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38	SAAE33	VTBB	260400		04:05:04	04:05:17	04:05:17	04:05:17
39	SAAE33	VTBB	260500		05:05:04	05:05:17	05:05:17	05:05:17
40	SAAE33	VTBB	260600		06:05:02	06:05:09	06:05:09	06:05:09
41	SAAE33	VTBB	260700		07:05:05	07:05:18	07:05:18	07:05:18
42	SAAE33	VTBB	260800		08:05:02	08:05:08	08:05:08	08:05:08
43	SAAE34	VTBB	260200		02:05:03	02:05:12	02:05:12	02:05:12
44	SAAE34	VTBB	260230		02:35:02	02:35:09	02:35:09	02:35:09
45	SAAE34	VTBB	260300	RRA	03:10:00	03:10:09	03:10:09	03:10:09
46	SAAE34	VTBB	260300		03:05:08	03:05:20	03:05:20	03:05:20
47	SAAE34	VTBB	260330		03:35:02	03:35:09	03:35:09	03:35:09
48	SAAE34	VTBB	260400		04:05:08	04:05:21	04:05:21	04:05:21
49	SAAE34	VTBB	260430	RRA	04:40:00	04:40:10	04:40:10	04:40:10
50	SAAE34	VTBB	260430		04:35:02	04:35:09	04:35:09	04:35:09
51	SAAE34	VTBB	260500		05:05:06	05:05:21	05:05:21	05:05:21
52	SAAE34	VTBB	260530		05:35:03	05:35:11	05:35:11	05:35:11
53	SAAE34	VTBB	260600		06:05:03	06:05:11	06:05:11	06:05:11
54	SAAE34	VTBB	260630		06:35:03	06:35:09	06:35:09	06:35:09
55	SAAE34	VTBB	260700		07:05:05	07:05:21	07:05:21	07:05:21
56	SAAE34	VTBB	260730	RRB	07:44:06	07:44:24	07:44:24	07:44:24
57	SAAE34	VTBB	260730	RRA	07:36:00	07:36:08	07:36:08	07:36:08
58	SAAE34	VTBB	260730		07:35:02	07:35:08	07:35:08	07:35:08
59	SAAE34	VTBB	260800		08:05:03	08:05:11	08:05:11	08:05:11
60	SAAU31	YBBN	260200		02:05:22	02:05:03	02:05:03	02:05:03
61	SAAU31	YBBN	260230		02:35:23	02:35:04	02:35:04	02:35:04
62	SAAU31	YBBN	260300		03:05:21	03:05:04	03:05:04	03:05:04
63	SAAU31	YBBN	260330	RRA	03:45:15	03:45:02	03:45:02	03:45:02
64	SAAU31	YBBN	260330		03:35:21	03:35:03	03:35:03	03:35:03
65	SAAU31	YBBN	260400		04:05:31	04:05:06	04:05:06	04:05:06
66	SAAU31	YBBN	260430	RRA	04:45:19	04:45:05	04:45:05	04:45:05
67	SAAU31	YBBN	260430		04:35:26	04:35:02	04:35:02	04:35:02
68	SAAU31	YBBN	260500		05:05:37	05:05:04	05:05:04	05:05:04
69	SAAU31	YBBN	260530	RRA	05:45:18	05:45:03	05:45:03	05:45:03
70	SAAU31	YBBN	260530		05:35:30	05:35:06	05:35:06	05:35:06
71	SAAU31	YBBN	260600		06:05:29	06:05:05	06:05:05	06:05:05
72	SAAU31	YBBN	260630	RRA	06:45:21	06:45:05	06:45:05	06:45:05
73	SAAU31	YBBN	260630		06:35:19	06:35:02	06:35:02	06:35:02
74	SAAU31	YBBN	260700		07:05:22	07:05:01	07:05:01	07:05:01
75	SAAU31	YBBN	260730		07:35:27	07:35:02	07:35:02	07:35:02
76	SAAU31	YBBN	260800		08:05:36	08:05:03	08:05:03	08:05:03
77	SAAU32	YBBN	260200		02:05:06	02:05:02	02:05:02	02:05:02
78	SAAU32	YBBN	260230		02:35:28	02:35:05	02:35:05	02:35:05
79	SAAU32	YBBN	260300		03:05:30	03:05:05	03:05:05	03:05:05
80	SAAU32	YBBN	260330		03:35:24	03:35:03	03:35:03	03:35:03
81	SAAU32	YBBN	260400		04:05:35	04:05:07	04:05:07	04:05:07
82	SAAU32	YBBN	260430		04:35:16	04:35:00	04:35:00	04:35:00

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83	SAAU32	YBBN	260500		05:05:25	05:05:02	05:05:02	05:05:02
84	SAAU32	YBBN	260530		05:35:19	05:35:04	05:35:04	05:35:04
85	SAAU32	YBBN	260600		06:05:33	06:05:05	06:05:05	06:05:05
86	SAAU32	YBBN	260630		06:35:22	06:35:02	06:35:02	06:35:02
87	SAAU32	YBBN	260700		07:05:28	07:05:02	07:05:02	07:05:02
88	SAAU32	YBBN	260730		07:35:29	07:35:03	07:35:03	07:35:03
89	SAAU32	YBBN	260800		08:05:12	08:05:01	08:05:01	08:05:01
90	SAAU33	YBBN	260200		02:05:20	02:05:03	02:05:03	02:05:03
91	SAAU33	YBBN	260230		02:35:36	02:35:07	02:35:07	02:35:07
92	SAAU33	YBBN	260300		03:05:24	03:05:04	03:05:04	03:05:04
93	SAAU33	YBBN	260330		03:35:19	03:35:02	03:35:02	03:35:02
94	SAAU33	YBBN	260400		04:05:28	04:05:05	04:05:05	04:05:05
95	SAAU33	YBBN	260430		04:35:24	04:35:02	04:35:02	04:35:02
96	SAAU33	YBBN	260500		05:05:35	05:05:03	05:05:03	05:05:03
97	SAAU33	YBBN	260530		05:35:28	05:35:06	05:35:06	05:35:06
98	SAAU33	YBBN	260600		06:05:42	06:05:07	06:05:07	06:05:07
99	SAAU33	YBBN	260630		06:35:31	06:35:04	06:35:04	06:35:04
100	SAAU33	YBBN	260700		07:05:43	07:05:04	07:05:04	07:05:04
101	SAAU33	YBBN	260730		07:35:24	07:35:02	07:35:02	07:35:02
102	SAAU33	YBBN	260800		08:05:30	08:05:03	08:05:03	08:05:03
103	SAAU34	YBBN	260200		02:05:13	02:05:02	02:05:02	02:05:02
104	SAAU34	YBBN	260230		02:35:34	02:35:07	02:35:07	02:35:07
105	SAAU34	YBBN	260300		03:05:35	03:05:05	03:05:05	03:05:05
106	SAAU34	YBBN	260330		03:35:29	03:35:04	03:35:04	03:35:04
107	SAAU34	YBBN	260400		04:05:24	04:05:05	04:05:05	04:05:05
108	SAAU34	YBBN	260430		04:35:21	04:35:01	04:35:01	04:35:01
109	SAAU34	YBBN	260500		05:05:29	05:05:03	05:05:03	05:05:03
110	SAAU34	YBBN	260530		05:35:24	05:35:05	05:35:05	05:35:05
111	SAAU34	YBBN	260600		06:05:36	06:05:06	06:05:06	06:05:06
112	SAAU34	YBBN	260630		06:35:27	06:35:03	06:35:03	06:35:03
113	SAAU34	YBBN	260700		07:05:37	07:05:03	07:05:03	07:05:03
114	SAAU34	YBBN	260730		07:35:21	07:35:02	07:35:02	07:35:02
115	SAAU34	YBBN	260800		08:05:19	08:05:01	08:05:01	08:05:01
116	SAAU35	YBBN	260200		02:05:09	02:05:02	02:05:02	02:05:02
117	SAAU35	YBBN	260230		02:35:32	02:35:06	02:35:06	02:35:06
118	SAAU35	YBBN	260300		03:05:28	03:05:05	03:05:05	03:05:05
119	SAAU35	YBBN	260330		03:35:27	03:35:04	03:35:04	03:35:04
120	SAAU35	YBBN	260400		04:05:38	04:05:07	04:05:07	04:05:07
121	SAAU35	YBBN	260430		04:35:19	04:35:01	04:35:01	04:35:01
122	SAAU35	YBBN	260500		05:05:27	05:05:02	05:05:02	05:05:02
123	SAAU35	YBBN	260530		05:35:22	05:35:05	05:35:05	05:35:05
124	SAAU35	YBBN	260600		06:05:31	06:05:05	06:05:05	06:05:05
125	SAAU35	YBBN	260630		06:35:25	06:35:02	06:35:02	06:35:02
126	SAAU35	YBBN	260700		07:05:35	07:05:02	07:05:02	07:05:02
127	SAAU35	YBBN	260730		07:35:31	07:35:03	07:35:03	07:35:03

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128	SAAU35	YBBN	260800		08:05:21	08:05:02	08:05:02	08:05:02
129	SAAU36	YBBN	260200		02:05:11	02:05:02	02:05:02	02:05:02
130	SAAU36	YBBN	260230		02:35:30	02:35:07	02:35:07	02:35:07
131	SAAU36	YBBN	260300		03:05:33	03:05:05	03:05:05	03:05:05
132	SAAU36	YBBN	260330		03:35:31	03:35:04	03:35:04	03:35:04
133	SAAU36	YBBN	260400		04:05:40	04:05:08	04:05:08	04:05:08
134	SAAU36	YBBN	260400		04:05:26	04:05:04	04:05:04	04:05:04
135	SAAU36	YBBN	260430		04:35:22	04:35:01	04:35:01	04:35:01
136	SAAU36	YBBN	260500		05:05:31	05:05:03	05:05:03	05:05:03
137	SAAU36	YBBN	260530		05:35:26	05:35:05	05:35:05	05:35:05
138	SAAU36	YBBN	260600		06:05:40	06:05:07	06:05:07	06:05:07
139	SAAU36	YBBN	260630	RRA	06:45:19	06:45:05	06:45:05	06:45:05
140	SAAU36	YBBN	260630		06:35:29	06:35:03	06:35:03	06:35:03
141	SAAU36	YBBN	260700		07:05:41	07:05:03	07:05:03	07:05:03
142	SAAU36	YBBN	260730		07:35:22	07:35:02	07:35:02	07:35:02
143	SAAU36	YBBN	260800		08:05:23	08:05:02	08:05:02	08:05:02
144	SACI31	ZBBB	260200		02:05:27	02:05:16	02:05:16	02:05:16
145	SACI31	ZBBB	260230		02:35:39	02:35:08	02:35:08	02:35:08
146	SACI31	ZBBB	260300		03:05:39	03:05:17	03:05:17	03:05:17
147	SACI31	ZBBB	260330		03:35:33	03:35:08	03:35:08	03:35:08
148	SACI31	ZBBB	260400		04:05:44	04:05:15	04:05:15	04:05:15
149	SACI31	ZBBB	260430		04:35:30	04:35:08	04:35:08	04:35:08
150	SACI31	ZBBB	260500		05:05:46	05:05:16	05:05:16	05:05:16
151	SACI31	ZBBB	260530		05:35:44	05:35:11	05:35:11	05:35:11
152	SACI31	ZBBB	260600		06:05:46	06:05:29	06:05:29	06:05:29
153	SACI31	ZBBB	260630		06:35:35	06:35:52	06:35:52	06:35:52
154	SACI31	ZBBB	260700		07:05:49	07:05:30	07:05:30	07:05:30
155	SACI31	ZBBB	260730		07:35:33	07:35:08	07:35:08	07:35:08
156	SACI31	ZBBB	260800		08:05:39	08:05:31	08:05:31	08:05:31
157	SACI32	ZBBB	260200		02:05:40	02:05:21	02:05:21	02:05:21
158	SACI32	ZBBB	260300		03:05:42	03:07:08	03:07:08	03:07:08
159	SACI32	ZBBB	260400		04:05:52	04:05:23	04:05:23	04:05:23
160	SACI32	ZBBB	260500		05:05:48	05:05:22	05:05:22	05:05:22
161	SACI32	ZBBB	260600		06:05:51	06:05:30	06:05:30	06:05:30
162	SACI32	ZBBB	260700		07:05:55	07:05:30	07:05:30	07:05:30
163	SACI32	ZBBB	260800		08:05:44	08:05:33	08:05:33	08:05:33
164	SACI41	ZBBB	260200		02:05:43	02:05:27	02:05:27	02:05:27
165	SACI41	ZBBB	260300		03:05:57	03:05:59	03:05:59	03:05:59
166	SACI41	ZBBB	260400		04:06:04	04:05:30	04:05:30	04:05:30
167	SACI41	ZBBB	260500		05:06:03	05:05:29	05:05:29	05:05:29
168	SACI41	ZBBB	260600		06:06:07	06:05:30	06:05:30	06:05:30
169	SACI41	ZBBB	260700		07:06:06	07:05:30	07:05:30	07:05:30
170	SACI41	ZBBB	260800		08:05:56	08:05:33	08:05:33	08:05:33
171	SACI74	ZSQZ	260200		02:01:19	02:01:06	02:01:06	02:01:06
172	SACI74	ZSQZ	260300		03:00:56	03:00:43	03:00:43	03:00:43

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173	SACI74	ZSQZ	260400		04:01:06	04:00:49	04:00:49	04:00:49
174	SACI74	ZSQZ	260500		05:00:58	05:00:51	05:01:00	05:01:00
175	SACI74	ZSQZ	260600		06:01:18	06:00:59	06:01:04	06:01:04
176	SACI74	ZSQZ	260700		07:02:40	07:02:28	07:02:28	07:02:28
177	SACI74	ZSQZ	260800		08:01:05	08:00:52	08:01:01	08:01:01
178	SAHK31	VHHH	260200		02:06:12	02:06:07	02:06:07	02:06:07
179	SAHK31	VHHH	260230		02:36:33	02:36:14	02:36:14	02:36:14
180	SAHK31	VHHH	260300		03:06:34	03:06:15	03:06:15	03:06:15
181	SAHK31	VHHH	260330		03:36:26	03:36:13	03:36:13	03:36:13
182	SAHK31	VHHH	260400		04:06:17	04:06:14	04:06:14	04:06:14
183	SAHK31	VHHH	260430		04:36:26	04:36:12	04:36:12	04:36:12
184	SAHK31	VHHH	260500		05:06:27	05:06:13	05:06:13	05:06:13
185	SAHK31	VHHH	260530		05:36:21	05:36:07	05:36:07	05:36:07
186	SAHK31	VHHH	260600		06:06:28	06:06:10	06:06:10	06:06:10
187	SAHK31	VHHH	260630		06:36:21	06:36:13	06:36:13	06:36:13
188	SAHK31	VHHH	260700		07:06:30	07:06:11	07:06:11	07:06:11
189	SAHK31	VHHH	260730		07:36:31	07:36:11	07:36:11	07:36:11
190	SAHK31	VHHH	260800		08:06:22	08:06:13	08:06:13	08:06:13
191	SAID31	WIII	260200		02:10:12	02:10:07	02:10:10	02:10:10
192	SAID31	WIII	260230		02:55:04	02:55:03	02:55:03	02:55:03
193	SAID31	WIII	260230		02:40:17	02:40:08	02:40:08	02:40:08
194	SAID31	WIII	260230		02:30:18	02:30:19	02:30:19	02:30:19
195	SAID31	WIII	260300		03:11:33	03:10:05	03:10:05	03:10:05
196	SAID31	WIII	260300		03:03:36	03:03:38	03:03:38	03:03:38
197	SAID31	WIII	260330		03:40:25	03:40:12	03:40:12	03:40:12
198	SAID31	WIII	260400		04:10:18	04:10:05	04:10:05	04:10:05
199	SAID31	WIII	260400		03:57:45	03:57:47	03:57:47	03:57:47
200	SAID31	WIII	260400		03:57:36	03:57:38	03:57:38	03:57:38
201	SAID31	WIII	260430		04:41:36	04:41:21	04:41:21	04:41:21
202	SAID31	WIII	260430		04:41:26	04:40:50	04:40:50	04:40:50
203	SAID31	WIII	260430		04:40:58	04:40:40	04:40:40	04:40:40
204	SAID31	WIII	260430		04:40:27	04:40:11	04:40:11	04:40:11
205	SAID31	WIII	260500		05:10:21	05:10:09	05:10:09	05:10:09
206	SAID31	WIII	260530		05:43:48	05:40:12	05:40:12	05:40:12
207	SAID31	WIII	260600		06:10:22	06:10:08	06:10:08	06:10:08
208	SAID31	WIII	260600		05:58:20	05:58:22	05:58:22	05:58:22
209	SAID31	WIII	260630		06:40:13	06:40:10	06:40:10	06:40:10
210	SAID31	WIII	260630		06:27:33	06:27:35	06:27:35	06:27:35
211	SAID31	WIII	260700		07:10:24	07:10:04	07:10:04	07:10:04
212	SAID31	WIII	260700		06:58:51	06:58:53	06:58:53	06:58:53
213	SAID31	WIII	260700		06:58:12	06:58:14	06:58:14	06:58:14
214	SAID31	WIII	260730		07:56:43	07:56:29	07:56:29	07:56:29
215	SAID31	WIII	260730		07:40:22	07:40:11	07:40:11	07:40:11
216	SAID31	WIII	260730		07:29:32	07:29:34	07:29:34	07:29:34
217	SAID31	WIII	260800		08:16:51	08:16:03	08:16:03	08:16:03

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218	SAID31	WIII	260800		08:10:13	08:10:04	08:10:04	08:10:04
219	SAID31	WIII	260800		07:57:20	07:57:22	07:57:22	07:57:22
220	SAID32	WIII	260200		02:31:01	02:27:14	02:27:14	02:27:14
221	SAID32	WIII	260200		02:10:22	02:10:13	02:10:13	02:10:13
222	SAID32	WIII	260230		02:40:19	02:40:10	02:40:10	02:40:10
223	SAID32	WIII	260300		03:12:07	03:10:15	03:10:15	03:10:15
224	SAID32	WIII	260330		03:40:27	03:40:16	03:40:16	03:40:16
225	SAID32	WIII	260400		04:10:35	04:10:16	04:10:16	04:10:16
226	SAID32	WIII	260430		04:41:39	04:41:35	04:41:35	04:41:35
227	SAID32	WIII	260430		04:41:38	04:41:30	04:41:30	04:41:30
228	SAID32	WIII	260430		04:41:35	04:41:01	04:41:01	04:41:01
229	SAID32	WIII	260430		04:40:29	04:40:15	04:40:15	04:40:15
230	SAID32	WIII	260500		05:10:28	05:10:15	05:10:15	05:10:15
231	SAID32	WIII	260530		05:40:26	05:40:16	05:40:16	05:40:16
232	SAID32	WIII	260600		06:13:09	06:12:56	06:13:05	06:13:05
233	SAID32	WIII	260600		06:10:24	06:10:09	06:10:09	06:10:09
234	SAID32	WIII	260630		06:42:34	06:42:15	06:42:15	06:42:15
235	SAID32	WIII	260630		06:40:31	06:40:15	06:40:15	06:40:15
236	SAID32	WIII	260700		07:10:27	07:10:11	07:10:11	07:10:11
237	SAID32	WIII	260730		07:40:24	07:40:13	07:40:13	07:40:13
238	SAID32	WIII	260800		08:10:15	08:10:10	08:10:10	08:10:10
239	SAID33	WIII	260200		02:11:42	02:11:33	02:11:33	02:11:33
240	SAID33	WIII	260200		02:10:18	02:10:11	02:10:11	02:10:11
241	SAID33	WIII	260230		02:40:21	02:40:13	02:40:13	02:40:13
242	SAID33	WIII	260300		03:10:16	03:10:10	03:10:10	03:10:10
243	SAID33	WIII	260330		03:40:29	03:40:20	03:40:20	03:40:20
244	SAID33	WIII	260400		04:10:20	04:10:11	04:10:11	04:10:11
245	SAID33	WIII	260430		04:40:35	04:40:24	04:40:24	04:40:24
246	SAID33	WIII	260430		04:40:31	04:40:20	04:40:20	04:40:20
247	SAID33	WIII	260500		05:15:32	05:15:20	05:15:20	05:15:20
248	SAID33	WIII	260500		05:10:37	05:10:19	05:10:19	05:10:19
249	SAID33	WIII	260530		05:40:48	05:40:36	05:40:36	05:40:36
250	SAID33	WIII	260530		05:40:24	05:40:14	05:40:14	05:40:14
251	SAID33	WIII	260600		06:10:26	06:10:13	06:10:13	06:10:13
252	SAID33	WIII	260630		06:40:29	06:40:12	06:40:12	06:40:12
253	SAID33	WIII	260700		07:10:30	07:10:14	07:10:14	07:10:14
254	SAID33	WIII	260730		07:40:26	07:40:19	07:40:19	07:40:19
255	SAID33	WIII	260800		08:10:21	08:10:14	08:10:14	08:10:14
256	SAIN31	VABB	260200		02:17:53	02:17:37	02:17:37	02:17:37
257	SAIN31	VABB	260230		02:48:03	02:47:46	02:47:46	02:47:46
258	SAIN31	VABB	260300		03:17:45	03:17:40	03:17:40	03:17:40
259	SAIN31	VABB	260330		04:28:07	03:54:57	03:54:57	03:54:57
260	SAIN31	VABB	260400		04:30:01	04:21:28	04:21:28	04:21:28
261	SAIN31	VABB	260430		04:47:47	04:47:34	04:47:34	04:47:34
262	SAIN31	VABB	260500		05:17:47	05:17:31	05:17:31	05:17:31

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263	SAIN31	VABB	260530	RRA	05:54:48	05:54:38	05:54:38	05:54:38
264	SAIN31	VABB	260530		05:48:19	05:48:07	05:48:07	05:48:07
265	SAIN31	VABB	260600		06:19:49	06:19:33	06:19:33	06:19:33
266	SAIN31	VABB	260630		06:47:49	06:47:36	06:47:36	06:47:36
267	SAIN31	VABB	260700		07:17:50	07:17:36	07:17:36	07:17:36
268	SAIN31	VABB	260730		07:47:51	07:47:40	07:47:40	07:47:40
269	SAIN31	VABB	260800		08:17:41	08:17:36	08:17:36	08:17:36
270	SAIN32	VIDP	260200		02:07:52	02:07:45	02:07:45	02:07:45
271	SAIN32	VIDP	260230	RRA	02:43:03	02:42:44	02:42:44	02:42:44
272	SAIN32	VIDP	260230		02:38:03	02:37:43	02:37:43	02:37:43
273	SAIN32	VIDP	260300		03:08:04	03:07:50	03:07:50	03:07:50
274	SAIN32	VIDP	260330		03:38:05	03:37:49	03:37:49	03:37:49
275	SAIN32	VIDP	260400		04:08:05	04:07:46	04:07:46	04:07:46
276	SAIN32	VIDP	260430		04:38:19	04:38:05	04:38:05	04:38:05
277	SAIN32	VIDP	260500		05:11:21	05:11:14	05:11:14	05:11:14
278	SAIN32	VIDP	260530		05:38:09	05:38:03	05:38:03	05:38:03
279	SAIN32	VIDP	260600		06:08:08	06:07:50	06:07:50	06:07:50
280	SAIN32	VIDP	260630		06:39:04	06:38:55	06:38:57	06:38:57
281	SAIN32	VIDP	260700		07:11:20	07:11:07	07:11:07	07:11:07
282	SAIN32	VIDP	260730		07:38:51	07:38:34	07:38:34	07:38:34
283	SAIN32	VIDP	260800		08:08:19	08:08:08	08:08:08	08:08:08
284	SAIN33	VECC	260200	RRA	02:29:06	02:28:51	02:28:51	02:28:51
285	SAIN33	VECC	260200	RRA	02:29:04	02:28:50	02:28:50	02:28:50
286	SAIN33	VECC	260200		02:09:02	02:09:00	02:09:00	02:09:00
287	SAIN33	VECC	260200		02:08:52	02:08:50	02:08:50	02:08:50
288	SAIN33	VECC	260230		02:38:55	02:38:52	02:38:52	02:38:52
289	SAIN33	VECC	260230		02:38:53	02:38:41	02:38:41	02:38:41
290	SAIN33	VECC	260300		03:08:57	03:08:44	03:08:44	03:08:44
291	SAIN33	VECC	260300		03:08:55	03:08:41	03:08:41	03:08:41
292	SAIN33	VECC	260330		03:38:57	03:38:46	03:38:46	03:38:46
293	SAIN33	VECC	260330		03:38:55	03:38:43	03:38:43	03:38:43
294	SAIN33	VECC	260400		04:08:58	04:08:47	04:08:47	04:08:47
295	SAIN33	VECC	260400		04:08:55	04:08:42	04:08:42	04:08:42
296	SAIN33	VECC	260430		04:38:58	04:38:50	04:38:50	04:38:50
297	SAIN33	VECC	260430		04:38:56	04:38:44	04:38:44	04:38:44
298	SAIN33	VECC	260500		05:09:00	05:08:51	05:08:51	05:08:51
299	SAIN33	VECC	260500		05:08:57	05:08:44	05:08:44	05:08:44
300	SAIN33	VECC	260530		05:39:00	05:38:53	05:38:53	05:38:53
301	SAIN33	VECC	260530		05:38:58	05:38:45	05:38:45	05:38:45
302	SAIN33	VECC	260600		06:09:01	06:08:55	06:08:55	06:08:55
303	SAIN33	VECC	260600		06:08:59	06:08:47	06:08:47	06:08:47
304	SAIN33	VECC	260630		06:39:02	06:38:47	06:38:47	06:38:47
305	SAIN33	VECC	260630		06:38:59	06:38:46	06:38:46	06:38:46
306	SAIN33	VECC	260700	RRA	07:29:02	07:28:50	07:28:50	07:28:50
307	SAIN33	VECC	260700	RRA	07:29:00	07:28:46	07:28:46	07:28:46

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308	SAIN33	VECC	260700		07:09:02	07:08:48	07:08:48	07:08:48
309	SAIN33	VECC	260700		07:09:00	07:08:45	07:08:45	07:08:45
310	SAIN33	VECC	260730		07:38:56	07:38:50	07:38:50	07:38:50
311	SAIN33	VECC	260730		07:38:54	07:38:48	07:38:48	07:38:48
312	SAIN33	VECC	260800		08:08:53	08:08:52	08:08:52	08:08:52
313	SAIN33	VECC	260800		08:08:51	08:08:47	08:08:47	08:08:47
314	SAJP31	RJTD	260200		02:06:52	02:06:44	02:06:44	02:06:44
315	SAJP31	RJTD	260300		03:06:54	03:06:44	03:06:44	03:06:44
316	SAJP31	RJTD	260400		04:06:58	04:06:43	04:06:43	04:06:43
317	SAJP31	RJTD	260500		05:06:53	05:06:43	05:06:43	05:06:43
318	SAJP31	RJTD	260600		06:06:58	06:06:43	06:06:43	06:06:43
319	SAJP31	RJTD	260700		07:07:00	07:06:43	07:06:43	07:06:43
320	SAJP31	RJTD	260800		08:06:51	08:06:43	08:06:43	08:06:43
321	SAJP32	RJTD	260200	RRA	02:06:56	02:06:46	02:06:46	02:06:46
322	SAJP32	RJTD	260200		02:06:54	02:06:45	02:06:45	02:06:45
323	SAJP32	RJTD	260300	RRA	03:06:58	03:06:45	03:06:45	03:06:45
324	SAJP32	RJTD	260300		03:06:56	03:06:44	03:06:44	03:06:44
325	SAJP32	RJTD	260400	RRA	04:07:00	04:06:45	04:06:45	04:06:45
326	SAJP32	RJTD	260400		04:06:55	04:06:45	04:06:45	04:06:45
327	SAJP32	RJTD	260500	RRA	05:06:58	05:06:45	05:06:45	05:06:45
328	SAJP32	RJTD	260500		05:06:55	05:06:44	05:06:44	05:06:44
329	SAJP32	RJTD	260600	RRA	06:07:03	06:06:44	06:06:44	06:06:44
330	SAJP32	RJTD	260600		06:07:01	06:06:44	06:06:44	06:06:44
331	SAJP32	RJTD	260700	RRA	07:07:05	07:06:45	07:06:45	07:06:45
332	SAJP32	RJTD	260700		07:07:02	07:06:44	07:06:44	07:06:44
333	SAJP32	RJTD	260800	RRA	08:06:55	08:06:44	08:06:44	08:06:44
334	SAJP32	RJTD	260800		08:06:53	08:06:44	08:06:44	08:06:44
335	SAJP38	RJTD	260200	RRA	02:07:00	02:06:47	02:06:47	02:06:47
336	SAJP38	RJTD	260200		02:06:58	02:06:47	02:06:47	02:06:47
337	SAJP38	RJTD	260300	RRA	03:07:03	03:06:46	03:06:46	03:06:46
338	SAJP38	RJTD	260300		03:07:00	03:06:45	03:06:45	03:06:45
339	SAJP38	RJTD	260400	RRA	04:07:05	04:06:46	04:06:46	04:06:46
340	SAJP38	RJTD	260400		04:07:02	04:06:46	04:06:46	04:06:46
341	SAJP38	RJTD	260500	RRA	05:07:04	05:06:46	05:06:46	05:06:46
342	SAJP38	RJTD	260500		05:07:02	05:06:45	05:06:45	05:06:45
343	SAJP38	RJTD	260600	RRA	06:07:07	06:06:46	06:06:46	06:06:46
344	SAJP38	RJTD	260600		06:07:05	06:06:45	06:06:45	06:06:45
345	SAJP38	RJTD	260700	RRA	07:07:09	07:06:46	07:06:46	07:06:46
346	SAJP38	RJTD	260700		07:07:07	07:06:45	07:06:45	07:06:45
347	SAJP38	RJTD	260800	RRA	08:06:59	08:06:45	08:06:45	08:06:45
348	SAJP38	RJTD	260800		08:06:57	08:06:45	08:06:45	08:06:45
349	SAKO31	RKSI	260200		02:04:42	02:04:40	02:04:40	02:04:40
350	SAKO31	RKSI	260230		02:34:53	02:34:36	02:34:36	02:34:36
351	SAKO31	RKSI	260300	RRA	03:05:53	03:05:26	03:05:26	03:05:26
352	SAKO31	RKSI	260300		03:04:45	03:04:40	03:04:40	03:04:40

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353	SAKO31	RKSI	260330		03:34:56	03:34:40	03:34:40	03:34:40
354	SAKO31	RKSI	260400		04:04:55	04:04:36	04:04:36	04:04:36
355	SAKO31	RKSI	260430		04:34:56	04:34:38	04:34:38	04:34:38
356	SAKO31	RKSI	260500	RRA	05:05:44	05:05:09	05:05:09	05:05:09
357	SAKO31	RKSI	260500		05:04:57	05:04:38	05:04:38	05:04:38
358	SAKO31	RKSI	260530		05:34:58	05:34:42	05:34:42	05:34:42
359	SAKO31	RKSI	260600		06:04:58	06:04:38	06:04:38	06:04:38
360	SAKO31	RKSI	260630		06:34:45	06:34:37	06:34:37	06:34:37
361	SAKO31	RKSI	260700		07:04:43	07:04:38	07:04:38	07:04:38
362	SAKO31	RKSI	260730		07:35:01	07:34:42	07:34:42	07:34:42
363	SAKO31	RKSI	260800		08:04:42	08:04:38	08:04:38	08:04:38
364	SAMS31	WMKK	260200		02:08:02	02:08:04	02:08:04	02:08:04
365	SAMS31	WMKK	260230		02:38:05	02:38:01	02:38:01	02:38:01
366	SAMS31	WMKK	260300		03:08:26	03:08:08	03:08:08	03:08:08
367	SAMS31	WMKK	260330		03:38:07	03:38:03	03:38:03	03:38:03
368	SAMS31	WMKK	260400		04:08:12	04:08:03	04:08:03	04:08:03
369	SAMS31	WMKK	260430		04:38:16	04:38:02	04:38:02	04:38:02
370	SAMS31	WMKK	260500		05:08:17	05:08:02	05:08:02	05:08:02
371	SAMS31	WMKK	260530	RRA	05:40:22	05:40:05	05:40:05	05:40:05
372	SAMS31	WMKK	260530		05:38:11	05:38:04	05:38:04	05:38:04
373	SAMS31	WMKK	260600		06:08:10	06:08:05	06:08:05	06:08:05
374	SAMS31	WMKK	260630		06:38:19	06:38:02	06:38:02	06:38:02
375	SAMS31	WMKK	260700		07:08:14	07:08:06	07:08:06	07:08:06
376	SAMS31	WMKK	260730	RRA	07:40:21	07:40:05	07:40:05	07:40:05
377	SAMS31	WMKK	260730		07:38:21	07:38:04	07:38:04	07:38:04
378	SAMS31	WMKK	260800		08:08:15	08:08:06	08:08:06	08:08:06
379	SAMS32	WMKK	260200		02:08:12	02:08:05	02:08:05	02:08:05
380	SAMS32	WMKK	260300		03:08:30	03:08:09	03:08:09	03:08:09
381	SAMS32	WMKK	260400		04:08:14	04:08:04	04:08:04	04:08:04
382	SAMS32	WMKK	260500		05:08:19	05:08:03	05:08:03	05:08:03
383	SAMS32	WMKK	260600	CCA	06:46:10	06:46:02	06:46:02	06:46:02
384	SAMS32	WMKK	260600		06:08:12	06:08:05	06:08:05	06:08:05
385	SAMS32	WMKK	260700		07:08:19	07:08:07	07:08:07	07:08:07
386	SAMS32	WMKK	260800		08:08:13	08:08:07	08:08:07	08:08:07
387	SAMS33	WMKK	260200	CCA	02:12:14	02:12:03	02:12:03	02:12:03
388	SAMS33	WMKK	260200		02:08:20	02:08:03	02:08:03	02:08:03
389	SAMS33	WMKK	260200		02:08:18	02:08:03	02:08:03	02:08:03
390	SAMS33	WMKK	260300		03:08:32	03:08:07	03:08:07	03:08:07
391	SAMS33	WMKK	260300		03:08:24	03:08:07	03:08:07	03:08:07
392	SAMS33	WMKK	260400		04:08:19	04:08:02	04:08:02	04:08:02
393	SAMS33	WMKK	260400		04:08:17	04:08:02	04:08:02	04:08:02
394	SAMS33	WMKK	260500		05:08:27	05:08:01	05:08:01	05:08:01
395	SAMS33	WMKK	260500		05:08:21	05:08:01	05:08:01	05:08:01
396	SAMS33	WMKK	260600		06:08:19	06:08:04	06:08:04	06:08:04
397	SAMS33	WMKK	260600		06:08:17	06:08:04	06:08:04	06:08:04

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398	SAMS33	WMKK	260700		07:08:23	07:08:06	07:08:06	07:08:06
399	SAMS33	WMKK	260700		07:08:21	07:08:06	07:08:06	07:08:06
400	SAMS33	WMKK	260800		08:08:21	08:08:05	08:08:05	08:08:05
401	SAMS33	WMKK	260800		08:08:11	08:08:05	08:08:05	08:08:05
402	SAMS38	WMKK	260200	CCA	02:12:05	02:12:03	02:12:03	02:12:03
403	SAMS38	WMKK	260200		02:08:14	02:08:04	02:08:04	02:08:04
404	SAMS38	WMKK	260300		03:08:28	03:08:08	03:08:08	03:08:08
405	SAMS38	WMKK	260400	RRA	04:12:08	04:12:02	04:12:02	04:12:02
406	SAMS38	WMKK	260400		04:08:10	04:08:03	04:08:03	04:08:03
407	SAMS38	WMKK	260500	CCA	05:12:09	05:12:02	05:12:02	05:12:02
408	SAMS38	WMKK	260500		05:08:23	05:08:03	05:08:03	05:08:03
409	SAMS38	WMKK	260600	CCA	06:12:19	06:12:05	06:12:05	06:12:05
410	SAMS38	WMKK	260600	RRA	06:10:21	06:10:04	06:10:04	06:10:04
411	SAMS38	WMKK	260600		06:08:14	06:08:05	06:08:05	06:08:05
412	SAMS38	WMKK	260700	RRA	07:10:22	07:10:06	07:10:06	07:10:06
413	SAMS38	WMKK	260700		07:08:16	07:08:07	07:08:07	07:08:07
414	SAMS38	WMKK	260800		08:08:17	08:08:06	08:08:06	08:08:06
415	SAMV31	VRMM	260200		02:02:34	02:02:30	02:02:30	02:02:30
416	SAMV31	VRMM	260300		03:02:16	03:02:05	03:02:05	03:02:05
417	SAMV31	VRMM	260400		04:00:29	04:00:25	04:00:25	04:00:25
418	SAMV31	VRMM	260500		05:01:21	05:01:10	05:01:10	05:01:10
419	SAMV31	VRMM	260600		06:03:55	06:03:35	06:03:35	06:03:35
420	SAMV31	VRMM	260700		07:02:03	07:01:57	07:01:58	07:01:58
421	SAMV31	VRMM	260800		08:00:41	08:00:22	08:00:22	08:00:22
422	SANG31	YBBN	260200	RRA	02:15:12	02:15:05	02:15:05	02:15:05
423	SANG31	YBBN	260200		02:05:04	02:05:01	02:05:01	02:05:01
424	SANG31	YBBN	260300		03:05:26	03:05:04	03:05:04	03:05:04
425	SANG31	YBBN	260400	RRA	04:15:21	04:15:04	04:15:04	04:15:04
426	SANG31	YBBN	260400		04:05:33	04:05:06	04:05:06	04:05:06
427	SANG31	YBBN	260500	RRA	05:15:15	05:15:02	05:15:02	05:15:02
428	SANG31	YBBN	260500		05:05:32	05:05:04	05:05:04	05:05:04
429	SANG31	YBBN	260600	RRA	06:15:27	06:15:02	06:15:02	06:15:02
430	SANG31	YBBN	260600		06:05:38	06:05:06	06:05:06	06:05:06
431	SANG31	YBBN	260700	RRA	7:15:05	07:15:03	07:15:03	07:15:03
432	SANG31	YBBN	260700		07:05:39	07:05:02	07:05:02	07:05:02
433	SANG31	YBBN	260800		08:05:15	08:05:01	08:05:01	08:05:01
434	SANZ31	NZKL	260200		02:05:47	02:05:33	02:05:33	02:05:33
435	SANZ31	NZKL	260230		02:35:55	02:35:47	02:35:47	02:35:47
436	SANZ31	NZKL	260300		03:05:59	03:05:53	03:05:53	03:05:53
437	SANZ31	NZKL	260330		03:35:36	03:35:13	03:35:13	03:35:13
438	SANZ31	NZKL	260400		04:06:08	04:05:48	04:05:48	04:05:48
439	SANZ31	NZKL	260430		04:35:56	04:35:37	04:35:37	04:35:37
440	SANZ31	NZKL	260500		05:05:39	05:05:04	05:05:04	05:05:04
441	SANZ31	NZKL	260530		05:36:17	05:35:39	05:35:39	05:35:39
442	SANZ31	NZKL	260600		06:06:11	06:05:33	06:05:33	06:05:33

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443	SANZ31	NZKL	260630		06:35:51	06:35:44	06:35:44	06:35:44
444	SANZ31	NZKL	260700		07:06:14	07:06:00	07:06:00	07:06:00
445	SANZ31	NZKL	260730		07:36:01	07:35:46	07:35:46	07:35:46
446	SANZ31	NZKL	260800		08:06:00	08:05:31	08:05:31	08:05:31
447	SANZ32	NZKL	260200		02:05:45	02:05:32	02:05:32	02:05:32
448	SANZ32	NZKL	260230		02:35:57	02:35:47	02:35:47	02:35:47
449	SANZ32	NZKL	260300		03:06:01	03:05:53	03:05:53	03:05:53
450	SANZ32	NZKL	260330		03:35:38	03:35:13	03:35:13	03:35:13
451	SANZ32	NZKL	260400		04:06:06	04:05:48	04:05:48	04:05:48
452	SANZ32	NZKL	260430		04:35:58	04:35:37	04:35:37	04:35:37
453	SANZ32	NZKL	260500		05:06:05	05:05:32	05:05:32	05:05:32
454	SANZ32	NZKL	260530		05:36:15	05:35:39	05:35:39	05:35:39
455	SANZ32	NZKL	260600		06:06:09	06:05:33	06:05:33	06:05:33
456	SANZ32	NZKL	260630		06:35:53	06:35:44	06:35:44	06:35:44
457	SANZ32	NZKL	260700		07:06:16	07:06:00	07:06:00	07:06:00
458	SANZ32	NZKL	260730		07:36:03	07:35:47	07:35:47	07:35:47
459	SANZ32	NZKL	260800		08:05:17	08:05:01	08:05:01	08:05:01
460	SAPK31	OPKC	260200	RRA	02:02:22	02:02:00	02:02:00	02:02:00
461	SAPK31	OPKC	260200		02:01:23	02:01:15	02:01:15	02:01:15
462	SAPK31	OPKC	260230	RRA	02:32:13	02:32:04	02:32:04	02:32:04
463	SAPK31	OPKC	260230		02:31:34	02:31:20	02:31:20	02:31:20
464	SAPK31	OPKC	260300	RRA	03:02:14	03:02:02	03:02:02	03:02:02
465	SAPK31	OPKC	260300		03:01:36	03:01:30	03:01:30	03:01:30
466	SAPK31	OPKC	260330	RRA	03:31:58	03:31:53	03:31:53	03:31:53
467	SAPK31	OPKC	260330		03:31:34	03:31:22	03:31:22	03:31:22
468	SAPK31	OPKC	260400		04:01:45	04:01:27	04:01:27	04:01:27
469	SAPK31	OPKC	260430	RRA	04:32:10	04:32:06	04:32:06	04:32:06
470	SAPK31	OPKC	260430		04:31:28	04:31:22	04:31:22	04:31:22
471	SAPK31	OPKC	260500	RRC	05:05:51	05:05:22	05:05:22	05:05:22
472	SAPK31	OPKC	260500	RRB	05:03:52	05:03:16	05:03:16	05:03:16
473	SAPK31	OPKC	260500	RRA	05:02:01	05:01:56	05:02:01	05:02:01
474	SAPK31	OPKC	260500		05:01:40	05:01:25	05:01:25	05:01:25
475	SAPK31	OPKC	260530	RRA	05:31:58	05:31:42	05:31:42	05:31:42
476	SAPK31	OPKC	260530		05:31:19	05:31:07	05:31:07	05:31:07
477	SAPK31	OPKC	260600	RRA	06:01:59	06:01:47	06:01:47	06:01:47
478	SAPK31	OPKC	260600		06:01:26	06:01:16	06:01:16	06:01:16
479	SAPK31	OPKC	260630	RRA	06:32:01	06:31:56	06:32:06	06:32:06
480	SAPK31	OPKC	260630		06:31:30	06:31:20	06:31:20	06:31:20
481	SAPK31	OPKC	260700	RRB	07:04:40	07:04:29	07:04:29	07:04:29
482	SAPK31	OPKC	260700	RRA	07:02:00	07:01:45	07:01:45	07:01:45
483	SAPK31	OPKC	260700		07:01:21	07:01:14	07:01:14	07:01:14
484	SAPK31	OPKC	260730	RRB	07:32:51	07:32:45	07:32:45	07:32:45
485	SAPK31	OPKC	260730	RRA	07:32:11	07:31:52	07:31:52	07:31:52
486	SAPK31	OPKC	260730		07:31:31	07:31:22	07:31:22	07:31:22
487	SAPK31	OPKC	260800		08:01:27	08:01:15	08:01:15	08:01:15

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488	SAPS31	NFFN	260200		02:15:18	02:15:09	02:15:09	02:15:09
489	SAPS31	NFFN	260300		03:15:34	03:15:15	03:15:15	03:15:15
490	SAPS31	NFFN	260400		04:06:35	04:06:16	04:06:16	04:06:16
491	SAPS31	NFFN	260500		05:15:27	05:15:17	05:15:17	05:15:17
492	SAPS31	NFFN	260600		06:15:33	06:15:08	06:15:08	06:15:08
493	SAPS31	NFFN	260700		07:15:29	07:15:09	07:15:09	07:15:09
494	SAPS31	NFFN	260800		08:15:16	08:15:05	08:15:05	08:15:05
495	SAPS32	NFFN	260200		02:04:03	02:03:54	02:03:54	02:03:54
496	SAPS32	NFFN	260300		03:04:14	03:03:55	03:03:55	03:03:55
497	SAPS32	NFFN	260400		04:15:27	04:15:11	04:15:11	04:15:11
498	SAPS32	NFFN	260500		05:03:41	05:03:12	05:03:12	05:03:12
499	SAPS32	NFFN	260600		06:03:47	06:03:23	06:03:23	06:03:23
500	SAPS32	NFFN	260700		07:03:38	07:03:24	07:03:24	07:03:24
501	SAPS32	NFFN	260800		08:03:11	08:03:00	08:03:00	08:03:00
502	SAPS33	NFFN	260200		02:02:32	02:02:24	02:02:24	02:02:24
503	SAPS33	NFFN	260300		03:02:35	03:02:25	03:02:25	03:02:25
504	SAPS33	NFFN	260400		04:02:45	04:02:31	04:02:31	04:02:31
505	SAPS33	NFFN	260500		05:02:38	05:02:27	05:02:27	05:02:27
506	SAPS33	NFFN	260600		06:02:38	06:02:23	06:02:23	06:02:23
507	SAPS33	NFFN	260700		07:02:22	07:02:19	07:02:19	07:02:19
508	SAPS33	NFFN	260800		08:02:24	08:02:19	08:02:19	08:02:19
509	SASB31	VCCC	260210	RRA	02:26:44	02:26:37	02:26:37	02:26:37
510	SASB31	VCCC	260210		02:20:43	02:20:32	02:20:32	02:20:32
511	SASB31	VCCC	260210		02:11:51	02:20:29	02:20:29	02:20:29
512	SASB31	VCCC	260310		03:20:37	03:20:45	03:20:45	03:20:45
513	SASB31	VCCC	260310		03:10:57	03:20:34	03:20:34	03:20:34
514	SASB31	VCCC	260410		04:20:47	04:20:38	04:20:38	04:20:38
515	SASB31	VCCC	260410		04:14:33	04:20:34	04:20:34	04:20:34
516	SASB31	VCCC	260510		05:20:48	05:20:41	05:20:41	05:20:41
517	SASB31	VCCC	260610	RRA	06:48:59	06:48:47	06:48:47	06:48:47
518	SASB31	VCCC	260610	RRA	06:26:09	06:25:50	06:25:50	06:25:50
519	SASB31	VCCC	260610		06:20:59	06:20:44	06:20:44	06:20:44
520	SASB31	VCCC	260710		07:21:00	07:20:50	07:20:50	07:20:50
521	SATH31	VTBB	260200	RRA	02:09:00	02:09:21	02:09:21	02:09:21
522	SATH31	VTBB	260200		02:05:07	02:05:15	02:05:15	02:05:15
523	SATH31	VTBB	260300		03:05:02	03:05:08	03:05:08	03:05:08
524	SATH31	VTBB	260400		04:05:02	04:05:09	04:05:09	04:05:09
525	SATH31	VTBB	260500		05:05:02	05:05:08	05:05:08	05:05:08
526	SATH31	VTBB	260600		06:05:06	06:05:14	06:05:14	06:05:14
527	SATH31	VTBB	260700		07:05:02	07:05:08	07:05:08	07:05:08
528	SATH31	VTBB	260800		08:05:03	08:05:13	08:05:13	08:05:13
529	SATH32	VTBB	260200		02:05:08	02:05:18	02:05:18	02:05:18
530	SATH32	VTBB	260300	RRA	03:11:08	03:11:18	03:11:18	03:11:18
531	SATH32	VTBB	260300		03:05:04	03:05:11	03:05:11	03:05:11
532	SATH32	VTBB	260400		04:05:04	04:05:11	04:05:11	04:05:11

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533	SATH32	VTBB	260500		05:05:04	05:05:11	05:05:11	05:05:11
534	SATH32	VTBB	260600		06:05:06	06:05:17	06:05:17	06:05:17
535	SATH32	VTBB	260700		07:05:04	07:05:12	07:05:12	07:05:12
536	SATH32	VTBB	260800		08:05:05	08:05:16	08:05:16	08:05:16
537	SATH33	VTBB	260200		02:05:07	02:05:21	02:05:21	02:05:21
538	SATH33	VTBB	260300		03:05:04	03:05:15	03:05:15	03:05:15
539	SATH33	VTBB	260400		04:05:04	04:05:14	04:05:14	04:05:14
540	SATH33	VTBB	260500	CCA	05:10:00	05:10:36	05:10:36	05:10:36
541	SATH33	VTBB	260500	RRA	05:09:30	05:09:42	05:09:42	05:09:42
542	SATH33	VTBB	260500		05:05:04	05:05:14	05:05:14	05:05:14
543	SATH33	VTBB	260600		06:05:08	06:05:20	06:05:20	06:05:20
544	SATH33	VTBB	260700		07:05:07	07:05:15	07:05:15	07:05:15
545	SATH33	VTBB	260800		08:05:08	08:05:21	08:05:21	08:05:21
546	SAXX31	VQPR	260230		02:26:23	02:26:03	02:26:03	02:26:03
547	SAXX31	VQPR	260300		02:55:54	02:55:41	02:55:41	02:55:41
548	SAXX31	VQPR	260330		03:26:34	03:26:22	03:26:22	03:26:22
549	SAXX31	VQPR	260400		03:55:15	03:55:02	03:55:02	03:55:02
550	SAXX31	VQPR	260430		04:27:46	04:27:33	04:27:33	04:27:33
551	SAXX31	VQPR	260500		04:56:37	04:56:19	04:56:19	04:56:19
552	SAXX31	VQPR	260530		05:25:41	05:25:27	05:25:27	05:25:27
553	SAXX31	VQPR	260600		05:57:32	05:57:11	05:57:11	05:57:11
554	SAXX31	VQPR	260630		06:27:49	06:27:37	06:27:37	06:27:37
555	SAXX31	VQPR	260700		06:59:00	06:58:45	06:58:45	06:58:45
556	SAXX31	VQPR	260730		07:29:04	07:28:51	07:28:51	07:28:51
557	SAXX31	VQPR	260800		07:56:01	07:55:58	07:55:58	07:55:58

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					TAF Bulletins			
					Recorded by	Recorded by	Recorded by	Recorded by
					VTBB RODB	WSSS RODB	WSSS RODB	WSSS RODB
					RX Time UTC	RX Time UTC	TX Time UTC to MID	TX Time UTC to AFI
	TTAAii	CCCC	YYGGgg	BBB	(hh:mm)	(hh:mm)	(hh:mm)	(hh:mm)
1	FTAE31	VTBB	260500		5:35:02	05:35:04	05:35:04	05:35:04
2	FTAE32	VTBB	260500		5:35:02	05:35:09	05:35:09	05:35:09
3	FTAE33	VTBB	260500		5:35:02	05:35:11	05:35:11	05:35:11
4	FTAE34	VTBB	260500	AAA	6:34:06	06:34:18	06:34:18	06:34:18
5	FTAE34	VTBB	260500		5:35:02	05:35:12	05:35:12	05:35:12
6	FTAU31	YBBN	260200	RRA	02:50:26	02:50:06	02:50:06	02:50:06
7	FTAU31	YBBN	260200		02:50:23	02:50:06	02:50:06	02:50:06
8	FTAU31	YBBN	260500		05:50:20	05:50:02	05:50:02	05:50:02
9	FTAU31	YBBN	260500	RRA	05:50:18	05:50:02	05:50:02	05:50:02
10	FTAU31	YBBN	260500		05:24:48	05:24:42	05:24:42	05:24:42
11	FTAU31	YBBN	260500		05:06:50	05:06:31	05:06:31	05:06:31
12	FTAU32	YBBN	260500	RRA	05:35:42	05:35:08	05:35:08	05:35:08
13	FTAU32	YBBN	260500		05:35:40	05:35:08	05:35:08	05:35:08
14	FTAU33	YBBN	260500		05:44:18	05:44:07	05:44:07	05:44:07
15	FTAU33	YBBN	260500		05:40:49	05:40:37	05:40:37	05:40:37
16	FTAU33	YBBN	260500		05:35:35	05:35:07	05:35:07	05:35:07
17	FTAU33	YBBN	260500		05:16:49	05:16:45	05:16:45	05:16:45
18	FTAU34	YBBN	260500	RRA	05:10:19	05:10:05	05:10:05	05:10:05
19	FTAU35	YBBN	260700	RRA	07:20:20	07:20:00	07:20:00	07:20:00
20	FTAU35	YBBN	260700		07:01:12	07:00:59	07:01:00	07:01:00
21	FTAU35	YBBN	260700		07:00:11	07:00:01	07:00:01	07:00:01
22	FTAU36	YBBN	260200		02:35:25	02:35:05	02:35:05	02:35:05
23	FTAU36	YBBN	260300		03:06:36	03:06:21	03:06:21	03:06:21
24	FTAU36	YBBN	260400		04:25:56	04:25:38	04:25:38	04:25:38
25	FTAU36	YBBN	260500		05:35:33	05:33:11	05:33:11	05:33:11
26	FTAU36	YBBN	260500		05:33:33	05:35:07	05:35:07	05:35:07
27	FTAU36	YBBN	260600	RRA	06:35:33	06:35:04	06:35:04	06:35:04
28	FTAU36	YBBN	260700		07:07:30	07:07:11	07:07:11	07:07:11
29	FTCI31	ZBBB	260400		04:00:24	04:00:18	04:00:18	04:00:18
30	FTCI32	ZBBB	260400		04:00:45	04:00:26	04:00:26	04:00:26
31	FTCI32	ZBBB	260405	AAA	04:06:14	04:06:03	04:06:03	04:06:03
32	FTCI32	ZBBB	260451	RRB	04:51:47	04:51:30	04:51:30	04:51:30
33	FTCI32	ZBBB	260451	RRA	04:51:28	04:51:16	04:51:16	04:51:16
34	FTCI41	ZBBB	260400		04:00:49	04:00:34	04:00:34	04:00:34
35	FTHK31	VHHH	260200		02:01:58	02:01:39	02:01:39	02:01:39
36	FTHK31	VHHH	260500		05:01:25	05:01:17	05:01:17	05:01:17
37	FTHK31	VHHH	260800		08:05:59	08:05:30	08:05:30	08:05:30
38	FTHK32	VHHH	260500		05:20:19	05:20:09	05:20:09	05:20:09

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39	FTHK33	VHHH	260500		05:20:32	05:20:14	05:20:14	05:20:14
40	FTIN31	VABB	260500	PZB	05:50:28	05:47:48	05:47:48	05:47:48
41	FTIN31	VABB	260500	PAA	05:50:19	05:47:46	05:47:46	05:47:46
42	FTIN32	VABB	260500	PZC	05:50:55	05:48:00	05:48:00	05:48:00
43	FTIN32	VABB	260500	PAB	05:50:45	05:47:58	05:47:58	05:47:58
44	FTIN32	VABB	260500	PAA	05:50:37	05:47:57	05:47:57	05:47:57
45	FTJP31	RJTD	252300	AAC	03:55:35	03:55:18	03:55:18	03:55:18
46	FTJP31	RJTD	252300	AAB	03:09:44	03:09:24	03:09:24	03:09:24
47	FTJP31	RJTD	252300	AAA	02:06:22	02:06:18	02:06:18	02:06:18
48	FTJP31	RJTD	260500	AAA	07:37:32	07:37:17	07:37:17	07:37:17
49	FTJP31	RJTD	260500		05:27:47	05:27:32	05:27:32	05:27:32
50	FTJP32	RJTD	260500	AAA	06:38:21	06:38:04	06:38:04	06:38:04
51	FTJP32	RJTD	260500	RRA	05:27:54	05:27:34	05:27:34	05:27:34
52	FTJP32	RJTD	260500		05:27:50	05:27:33	05:27:33	05:27:33
53	FTJP38	RJTD	252300	AAA	03:45:17	03:45:02	03:45:02	03:45:02
54	FTJP38	RJTD	260500	AAB	07:37:31	07:37:18	07:37:18	07:37:18
55	FTJP38	RJTD	260500	AAA	06:46:30	06:46:22	06:46:22	06:46:22
56	FTJP38	RJTD	260500	RRA	05:27:58	05:27:35	05:27:35	05:27:35
57	FTJP38	RJTD	260500	RRB	05:27:56	05:27:35	05:27:35	05:27:35
58	FTJP38	RJTD	260500		05:27:52	05:27:35	05:27:35	05:27:35
59	FTKO31	RKSI	260500		05:06:12	05:05:49	05:05:49	05:05:49
60	FTKO31	RKSI	260500	RRA	05:06:10	05:05:47	05:05:47	05:05:47
61	FTKO31	RKSI	260525	AAA	05:24:17	05:23:59	05:24:02	05:24:02
62	FTKO31	RKSI	260620	AAA	06:24:09	06:23:57	06:24:05	06:24:05
63	FTKO31	RKSI	260745	AAA	07:45:41	07:45:21	07:45:21	07:45:21
64	FTMS40	WMKK	260500		4:45:19	04:45:03	04:45:03	04:45:03
65	FTNG31	YBBN	260500	RRA	05:25:08	05:25:04	05:25:04	05:25:04
66	FTNG31	YBBN	260500	RRA	05:15:17	05:15:02	05:15:02	05:15:02
67	FTNZ31	NZKL	260200		02:12:04	02:11:50	02:11:50	02:11:50
68	FTNZ31	NZKL	260200		02:11:52	02:11:50	02:11:50	02:11:50
69	FTNZ31	NZKL	260500		05:10:39	05:10:14	05:10:14	05:10:14
70	FTNZ31	NZKL	260500		05:10:26	05:10:14	05:10:14	05:10:14
71	FTNZ31	NZKL	260800		08:13:41	08:13:22	08:13:22	08:13:22
72	FTNZ31	NZKL	260800		08:13:33	08:13:22	08:13:22	08:13:22
73	FTNZ32	NZKL	260200	AAA	02:38:39	02:38:17	02:38:17	02:38:17
74	FTNZ32	NZKL	260200	AAA	02:38:38	02:38:17	02:38:17	02:38:17
75	FTPK31	OPKC	260500		05:36:05	05:35:28	05:35:28	05:35:28
76	FTPS31	NFFN	260500		05:20:38	05:20:22	05:20:22	05:20:22
77	FTPS32	NFFN	260500	RRA	05:46:01	05:45:52	05:45:53	05:45:53
78	FTPS32	NFFN	260500	RRB	05:46:00	05:45:53	05:46:03	05:46:03
79	FTPS32	NFFN	260500		05:45:21	05:45:13	05:45:13	05:45:13
80	FTPS33	NFFN	260500		05:30:34	05:30:17	05:30:17	05:30:17
81	FTSR31	WSSS	260500	AAA	08:01:01	08:00:32	08:00:32	08:00:32
82	FTSR31	WSSS	260500	RRA	05:19:27	05:19:03	05:19:03	05:19:03
83	FTSR31	WSSS	260500		05:07:59	05:07:41	05:07:41	05:07:41

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84	FTSR32	WSSS	260500		05:09:59	05:09:32	05:09:32	05:09:32
85	FTSR33	WSSS	260500		05:12:07	05:11:42	05:11:42	05:11:42
86	FTTH31	VTBB	260500		5:35:02	05:35:15	05:35:15	05:35:15
87	FTTH32	VTBB	260500		5:35:02	05:35:19	05:35:19	05:35:19
88	FTTH33	VTBB	260500		5:35:02	05:35:22	05:35:22	05:35:22
89	FTTM31	YBBN	260500		05:35:37	05:35:08	05:35:08	05:35:08