

International Civil Aviation Organization

ICAO

WORKING PAPER (WP/09)**ICAO Asia and Pacific (APAC)****Twenty-third Meeting of the Meteorological Information
Exchange Working Group (MET/IE WG/23)**

Bangkok, Thailand, 25 to 28 March 2025

**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 seventh 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 seventh IROG backup exercise between IROG Singapore and IROG Bangkok in the event IROG Bangkok experiences technical difficulties with prolonged downtime was conducted on 27 September 2024.

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	498	498	498	100%	0
FT Bulletin	92	92	92	100%	0
Total	590	590	590	100%	0

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

2.4 Update on IROG Backup exercise for IWXXM Data

2.4.1 Separately, IROG Singapore and IROG Bangkok have been tasked by the meeting to provide an update on the feasibility and possible timeline for conducting an IROG backup exercise for IWXXM data [Ref: ACTION MET/IE WG/22-02].

2.4.2 Both IROGs discussed and based on inputs from other stakeholders, the IROG backup exercise for IWXXM data has been planned for in 2026.

2.5 CONCLUSION

2.5.1 IROG Singapore successfully routed 498 out of 498 (100%) METAR bulletins and 92 out of 92 (100%) TAF bulletins to MID/AFI during the exercise on behalf of IROG Bangkok.

2.5.2 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.

2.5.3 IROG Singapore and IROG Bangkok intend to conduct the IROG Backup exercise for IWXXM data in 2026.

3. ACTION BY THE MEETING

3.1 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 27 September 2024

					METAR Bulletins			
					Recorded by VTBB RODB	Recorded by WSSS RODB	Recorded by WSSS RODB	Recorded by 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	270200		02:05:02	02:05:03	02:05:03	02:05:03
2	SAAE31	VTBB	270230		02:35:01	02:35:03	02:35:03	02:35:03
3	SAAE31	VTBB	270300		03:05:01	03:05:03	03:05:03	03:05:03
4	SAAE31	VTBB	270330		03:35:01	03:35:03	03:35:03	03:35:03
5	SAAE31	VTBB	270400		04:05:01	04:05:03	04:05:03	04:05:03
6	SAAE31	VTBB	270430		04:35:01	04:35:03	04:35:03	04:35:03
7	SAAE31	VTBB	270500		05:05:01	05:05:02	05:05:02	05:05:02
8	SAAE31	VTBB	270530		05:35:02	05:35:05	05:35:05	05:35:05
9	SAAE31	VTBB	270600		06:05:01	06:05:03	06:05:03	06:05:03
10	SAAE31	VTBB	270630		06:35:01	06:35:02	06:35:02	06:35:02
11	SAAE31	VTBB	270700		07:05:01	07:05:03	07:05:03	07:05:03
12	SAAE31	VTBB	270730		07:35:01	07:35:02	07:35:02	07:35:02
13	SAAE32	VTBB	270200		02:05:06	02:05:08	02:05:08	02:05:08
14	SAAE32	VTBB	270230		02:35:05	02:35:06	02:35:06	02:35:06
15	SAAE32	VTBB	270300		03:05:05	03:05:07	03:05:07	03:05:07
16	SAAE32	VTBB	270330		03:35:05	03:35:07	03:35:07	03:35:07
17	SAAE32	VTBB	270400		04:05:04	04:05:06	04:05:06	04:05:06
18	SAAE32	VTBB	270430		04:35:05	04:35:07	04:35:07	04:35:07
19	SAAE32	VTBB	270500		05:05:04	05:05:06	05:05:06	05:05:06
20	SAAE32	VTBB	270530		05:35:06	05:35:08	05:35:08	05:35:08
21	SAAE32	VTBB	270600		06:05:05	06:05:07	06:05:07	06:05:07
22	SAAE32	VTBB	270630		06:35:04	06:35:06	06:35:06	06:35:06
23	SAAE32	VTBB	270700		07:05:04	07:05:05	07:05:05	07:05:05
24	SAAE32	VTBB	270730		07:35:04	07:35:06	07:35:06	07:35:06
25	SAAE33	VTBB	270200		02:05:19	02:05:21	02:05:21	02:05:21
26	SAAE33	VTBB	270300		03:05:18	03:05:19	03:05:19	03:05:19
27	SAAE33	VTBB	270400		04:05:17	04:05:19	04:05:19	04:05:19
28	SAAE33	VTBB	270500		05:05:16	05:05:18	05:05:18	05:05:18
29	SAAE33	VTBB	270600		06:05:08	06:05:10	06:05:10	06:05:10
30	SAAE33	VTBB	270700		07:05:16	07:05:19	07:05:19	07:05:19
31	SAAE34	VTBB	270200		02:05:22	02:05:24	02:05:24	02:05:24
32	SAAE34	VTBB	270200	RRA	02:06:09	02:06:11	02:06:11	02:06:11
33	SAAE34	VTBB	270230		02:35:08	02:35:10	02:35:10	02:35:10
34	SAAE34	VTBB	270300		03:05:21	03:05:23	03:05:23	03:05:23
35	SAAE34	VTBB	270330		03:35:08	03:35:10	03:35:10	03:35:10
36	SAAE34	VTBB	270400		04:05:20	04:05:21	04:05:21	04:05:21
37	SAAE34	VTBB	270430		04:35:08	04:35:09	04:35:09	04:35:09
38	SAAE34	VTBB	270500		05:05:19	05:05:21	05:05:23	05:05:23

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39	SAAE34	VTBB	270530		05:35:10	05:35:12	05:35:20	05:35:20
40	SAAE34	VTBB	270530	RRA	05:44:52	05:44:53	05:45:02	05:45:02
41	SAAE34	VTBB	270600		06:05:11	06:05:12	06:05:12	06:05:12
42	SAAE34	VTBB	270630		06:35:08	06:35:09	06:35:09	06:35:09
43	SAAE34	VTBB	270700		07:05:19	07:05:20	07:05:20	07:05:20
44	SAAE34	VTBB	270730		07:35:07	07:35:09	07:35:09	07:35:09
45	SAAU31	YBBN	270200		02:06:16	02:06:05	02:06:05	---
46	SAAU31	YBBN	270230		02:36:16	02:36:03	02:36:03	---
47	SAAU31	YBBN	270230	RRA	02:46:15	02:46:04	02:46:04	---
48	SAAU31	YBBN	270300		03:06:05	03:06:01	03:06:01	---
49	SAAU31	YBBN	270330		03:36:17	03:36:05	03:36:05	---
50	SAAU31	YBBN	270330	RRA	03:46:17	03:46:05	03:46:05	---
51	SAAU31	YBBN	270400		04:06:09	04:06:03	04:06:03	---
52	SAAU31	YBBN	270400	RRA	04:16:08	04:16:04	04:16:04	---
53	SAAU31	YBBN	270430		04:36:11	04:36:05	04:36:05	---
54	SAAU31	YBBN	270430	RRA	04:46:09	04:46:01	04:46:01	---
55	SAAU31	YBBN	270500		05:06:10	05:06:05	05:06:05	---
56	SAAU31	YBBN	270530		05:36:10	05:36:04	05:36:04	---
57	SAAU31	YBBN	270530	RRA	05:46:10	05:46:02	05:46:02	---
58	SAAU31	YBBN	270600		06:06:11	06:06:06	06:06:06	---
59	SAAU31	YBBN	270630		06:36:14	06:36:01	06:36:01	---
60	SAAU31	YBBN	270630	RRA	06:46:12	06:46:02	06:46:02	---
61	SAAU31	YBBN	270700		07:06:13	07:06:04	07:06:04	---
62	SAAU31	YBBN	270700	RRA	07:16:13	07:16:04	07:16:04	---
63	SAAU31	YBBN	270730		07:36:16	07:36:01	07:36:01	---
64	SAAU32	YBBN	270200		02:05:25	02:05:03	02:05:03	---
65	SAAU32	YBBN	270200	RRA	02:15:24	02:15:03	02:15:03	---
66	SAAU32	YBBN	270230		02:35:26	02:35:05	02:35:05	---
67	SAAU32	YBBN	270300		03:05:23	03:05:04	03:05:04	---
68	SAAU32	YBBN	270300	RRA	03:15:17	03:15:03	03:15:03	---
69	SAAU32	YBBN	270330		03:35:11	03:35:04	03:35:04	---
70	SAAU32	YBBN	270400		04:05:15	04:05:04	04:05:04	---
71	SAAU32	YBBN	270430		04:35:10	04:35:03	04:35:03	---
72	SAAU32	YBBN	270430	RRA	04:45:09	04:45:05	04:45:05	---
73	SAAU32	YBBN	270500		05:05:16	05:05:03	05:05:03	---
74	SAAU32	YBBN	270530		05:35:23	05:35:06	05:35:06	---
75	SAAU32	YBBN	270600		06:05:27	06:05:04	06:05:04	---
76	SAAU32	YBBN	270630		06:35:17	06:35:05	06:35:05	---
77	SAAU32	YBBN	270700		07:05:28	07:05:05	07:05:05	---
78	SAAU32	YBBN	270730		07:35:21	07:35:05	07:35:05	---
79	SAAU33	YBBN	270200		02:05:15	02:05:02	02:05:02	---
80	SAAU33	YBBN	270230		02:35:24	02:35:05	02:35:05	---
81	SAAU33	YBBN	270300		03:05:26	03:05:04	03:05:04	---
82	SAAU33	YBBN	270330		03:35:16	03:35:04	03:35:04	---
83	SAAU33	YBBN	270400		04:05:18	04:05:04	04:05:04	---

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84	SAAU33	YBBN	270430		04:35:13	04:35:03	04:35:03	---
85	SAAU33	YBBN	270500		05:05:19	05:05:03	05:05:03	---
86	SAAU33	YBBN	270530		05:35:25	05:35:06	05:35:06	---
87	SAAU33	YBBN	270600		06:05:18	06:05:03	06:05:03	---
88	SAAU33	YBBN	270630		06:35:12	06:35:04	06:35:04	---
89	SAAU33	YBBN	270700		07:05:24	07:05:05	07:05:05	---
90	SAAU33	YBBN	270730		07:35:17	07:35:05	07:35:05	---
91	SAAU34	YBBN	270200		02:05:28	02:05:03	02:05:03	---
92	SAAU34	YBBN	270230		02:35:20	02:35:05	02:35:05	---
93	SAAU34	YBBN	270300		03:05:16	03:05:03	03:05:03	---
94	SAAU34	YBBN	270330		03:35:08	03:35:03	03:35:03	---
95	SAAU34	YBBN	270400		04:05:24	04:05:06	04:05:06	---
96	SAAU34	YBBN	270430		04:35:17	04:35:04	04:35:04	---
97	SAAU34	YBBN	270500		05:05:25	05:05:03	05:05:03	---
98	SAAU34	YBBN	270530		05:35:28	05:35:07	05:35:07	---
99	SAAU34	YBBN	270600		06:05:23	06:05:04	06:05:04	---
100	SAAU34	YBBN	270630		06:35:20	06:35:05	06:35:05	---
101	SAAU34	YBBN	270700		07:05:30	07:05:05	07:05:05	---
102	SAAU34	YBBN	270730		07:35:23	07:35:05	07:35:05	---
103	SAAU35	YBBN	270200		02:05:23	02:05:02	02:05:02	---
104	SAAU35	YBBN	270230		02:35:22	02:35:05	02:35:05	---
105	SAAU35	YBBN	270300		03:05:28	03:05:05	03:05:05	---
106	SAAU35	YBBN	270330		03:35:06	03:35:03	03:35:03	---
107	SAAU35	YBBN	270400		04:05:20	04:05:06	04:05:06	---
108	SAAU35	YBBN	270430		04:35:15	04:35:03	04:35:03	---
109	SAAU35	YBBN	270500		05:05:21	05:05:03	05:05:03	---
110	SAAU35	YBBN	270530		05:35:30	05:35:06	05:35:06	---
111	SAAU35	YBBN	270600		06:05:21	06:05:04	06:05:04	---
112	SAAU35	YBBN	270630		06:35:15	06:35:04	06:35:04	---
113	SAAU35	YBBN	270700		07:05:26	07:05:05	07:05:05	---
114	SAAU35	YBBN	270730		07:35:19	07:35:05	07:35:05	---
115	SAAU36	YBBN	270200		02:06:14	02:06:05	02:06:05	---
116	SAAU36	YBBN	270230		02:36:14	02:36:02	02:36:02	---
117	SAAU36	YBBN	270300		03:06:10	03:06:01	03:06:01	---
118	SAAU36	YBBN	270300	RRA	03:16:16	03:16:04	03:16:04	---
119	SAAU36	YBBN	270330		03:36:19	03:36:05	03:36:05	---
120	SAAU36	YBBN	270400		04:06:11	04:06:04	04:06:04	---
121	SAAU36	YBBN	270430		04:36:14	04:36:05	04:36:05	---
122	SAAU36	YBBN	270500		05:06:13	05:06:06	05:06:06	---
123	SAAU36	YBBN	270530		05:36:13	05:36:05	05:36:05	---
124	SAAU36	YBBN	270600		06:06:14	06:06:06	06:06:06	---
125	SAAU36	YBBN	270630		06:36:12	06:36:01	06:36:01	---
126	SAAU36	YBBN	270700		07:06:15	07:06:04	07:06:04	---
127	SAAU36	YBBN	270730		07:36:14	07:36:02	07:36:02	---
128	SACI31	ZBBB	270200		02:05:55	02:05:10	02:05:10	02:05:10

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129	SACI31	ZBBB	270230		02:36:23	02:35:06	02:35:06	02:35:06
130	SACI31	ZBBB	270300		03:06:26	03:05:06	03:05:06	03:05:06
131	SACI31	ZBBB	270330		03:35:56	03:35:06	03:35:06	03:35:06
132	SACI31	ZBBB	270400		04:05:41	04:05:52	04:05:52	04:05:52
133	SACI31	ZBBB	270430		04:36:16	04:36:12	04:36:12	04:36:12
134	SACI31	ZBBB	270500		05:06:22	05:05:41	05:05:41	05:05:41
135	SACI31	ZBBB	270500	CCA	05:26:50	05:25:16	05:25:16	05:25:16
136	SACI31	ZBBB	270530		05:35:32	05:35:07	05:35:07	05:35:07
137	SACI31	ZBBB	270600		06:06:30	06:06:12	06:06:12	06:06:12
138	SACI31	ZBBB	270630		06:36:27	06:35:07	06:35:07	06:35:07
139	SACI31	ZBBB	270700		07:06:41	07:05:07	07:05:07	07:05:07
140	SACI31	ZBBB	270730		07:36:21	07:35:07	07:35:07	07:35:07
141	SACI32	ZBBB	270200		02:05:52	02:05:11	02:05:11	02:05:11
142	SACI32	ZBBB	270300		03:06:35	03:05:07	03:05:07	03:05:07
143	SACI32	ZBBB	270400		04:05:49	04:06:13	04:06:13	04:06:13
144	SACI32	ZBBB	270500		05:06:30	05:05:41	05:05:41	05:05:41
145	SACI32	ZBBB	270600		06:06:24	06:06:13	06:06:13	06:06:13
146	SACI32	ZBBB	270700		07:06:43	07:05:09	07:05:09	07:05:09
147	SACI41	ZBBB	270200		02:06:06	02:05:13	02:05:13	02:05:13
148	SACI41	ZBBB	270300		03:06:39	03:05:31	03:05:31	03:05:31
149	SACI41	ZBBB	270400		04:05:52	04:05:53	04:06:00	04:06:00
150	SACI41	ZBBB	270500		05:06:36	05:05:42	05:05:42	05:05:42
151	SACI41	ZBBB	270600		06:06:21	06:06:15	06:06:15	06:06:15
152	SACI41	ZBBB	270700		07:06:51	07:05:09	07:05:09	07:05:09
153	SACI74	ZSQZ	270200		02:02:14	02:00:32	02:00:32	02:00:32
154	SACI74	ZSQZ	270300		03:01:45	03:00:41	03:00:41	03:00:41
155	SACI74	ZSQZ	270400		04:01:37	04:01:20	04:01:20	04:01:20
156	SACI74	ZSQZ	270500		05:01:39	05:00:47	05:00:47	05:00:47
157	SACI74	ZSQZ	270600		06:01:42	06:01:13	06:01:13	06:01:13
158	SACI74	ZSQZ	270700		07:03:54	07:03:17	07:03:17	07:03:17
159	SAHK31	VHHH	270200		02:06:19	02:06:09	02:06:09	02:06:09
160	SAHK31	VHHH	270230		02:36:19	02:36:05	02:36:05	02:36:05
161	SAHK31	VHHH	270300		03:06:21	03:06:11	03:06:11	03:06:11
162	SAHK31	VHHH	270330		03:36:24	03:36:12	03:36:12	03:36:12
163	SAHK31	VHHH	270400		04:06:17	04:06:12	04:06:12	04:06:12
164	SAHK31	VHHH	270430		04:36:18	04:36:14	04:36:14	04:36:14
165	SAHK31	VHHH	270500		05:06:19	05:06:10	05:06:10	05:06:10
166	SAHK31	VHHH	270530		05:36:20	05:36:12	05:36:12	05:36:12
167	SAHK31	VHHH	270600		06:06:38	06:06:14	06:06:14	06:06:14
168	SAHK31	VHHH	270630		06:36:19	06:36:09	06:36:09	06:36:09
169	SAHK31	VHHH	270700		07:08:33	07:08:20	07:08:20	07:08:20
170	SAHK31	VHHH	270730		07:40:06	07:40:00	07:40:10	07:40:10
171	SAID31	WIII	270200		02:10:20	02:10:07	02:10:07	02:10:07
172	SAID31	WIII	270230		02:22:13	02:40:08	02:40:08	02:40:08
173	SAID31	WIII	270300		02:40:14	03:10:04	03:10:04	03:10:04

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174	SAID31	WIII	270330		03:10:12	03:40:11	03:40:11	03:40:11
175	SAID31	WIII	270400		03:40:16	04:10:05	04:10:05	04:10:05
176	SAID31	WIII	270430		04:10:17	04:40:14	04:40:14	04:40:14
177	SAID31	WIII	270430		04:40:10	04:57:54	04:57:56	04:57:56
178	SAID31	WIII	270430		04:57:59	04:57:57	04:58:06	04:58:06
179	SAID31	WIII	270430		04:58:03	04:58:07	04:58:07	04:58:07
180	SAID31	WIII	270430		04:58:39	04:58:07	04:58:07	04:58:07
181	SAID31	WIII	270430		04:58:49	04:58:37	04:58:37	04:58:37
182	SAID31	WIII	270430		04:58:52	04:58:37	04:58:37	04:58:37
183	SAID31	WIII	270430		04:59:02	04:58:37	04:58:37	04:58:37
184	SAID31	WIII	270430		05:03:29	04:58:55	04:58:57	04:58:57
185	SAID31	WIII	270500		05:07:49	05:07:48	05:07:48	05:07:48
186	SAID31	WIII	270500		05:28:24	05:28:11	05:28:11	05:28:11
187	SAID31	WIII	270500		05:28:40	05:28:42	05:28:42	05:28:42
188	SAID31	WIII	270500		05:28:42	05:28:42	05:28:42	05:28:42
189	SAID31	WIII	270500		05:28:44	05:28:43	05:28:43	05:28:43
190	SAID31	WIII	270500		05:29:00	05:28:43	05:28:43	05:28:43
191	SAID31	WIII	270500		05:29:03	05:28:53	05:28:53	05:28:53
192	SAID31	WIII	270500		05:36:17	05:29:02	05:29:02	05:29:02
193	SAID31	WIII	270500		05:36:25	05:29:06	05:29:06	05:29:06
194	SAID31	WIII	270530		05:37:40	05:37:37	05:37:37	05:37:37
195	SAID31	WIII	270600		06:10:19	06:10:08	06:10:08	06:10:08
196	SAID31	WIII	270630		06:40:12	06:40:11	06:40:11	06:40:11
197	SAID31	WIII	270700		07:10:20	07:10:09	07:10:09	07:10:09
198	SAID31	WIII	270730		07:40:14	07:40:10	07:40:10	07:40:10
199	SAID32	WIII	270200		02:10:23	02:10:17	02:10:17	02:10:17
200	SAID32	WIII	270230		02:40:17	02:40:18	02:40:18	02:40:18
201	SAID32	WIII	270230		02:41:04	02:40:57	02:41:02	02:41:02
202	SAID32	WIII	270300		03:10:17	03:10:15	03:10:15	03:10:15
203	SAID32	WIII	270330		03:40:38	03:40:31	03:40:31	03:40:31
204	SAID32	WIII	270400		04:10:21	04:10:16	04:10:16	04:10:16
205	SAID32	WIII	270430		04:40:20	04:40:15	04:40:15	04:40:15
206	SAID32	WIII	270430		04:58:20	04:58:17	04:58:17	04:58:17
207	SAID32	WIII	270430		04:58:41	04:58:38	04:58:38	04:58:38
208	SAID32	WIII	270430		04:58:43	04:58:38	04:58:38	04:58:38
209	SAID32	WIII	270430		04:58:47	04:58:39	04:58:39	04:58:39
210	SAID32	WIII	270430		04:58:56	04:58:47	04:58:47	04:58:47
211	SAID32	WIII	270430		04:59:11	04:59:08	04:59:08	04:59:08
212	SAID32	WIII	270430		04:59:41	04:59:37	04:59:37	04:59:37
213	SAID32	WIII	270500		05:07:51	05:07:46	05:07:46	05:07:46
214	SAID32	WIII	270500		05:11:09	05:11:09	05:11:09	05:11:09
215	SAID32	WIII	270500		05:28:45	05:28:43	05:28:43	05:28:43
216	SAID32	WIII	270500		05:28:48	05:28:44	05:28:44	05:28:44
217	SAID32	WIII	270500		05:29:10	05:29:08	05:29:08	05:29:08
218	SAID32	WIII	270500		05:29:11	05:29:15	05:29:15	05:29:15

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219	SAID32	WIII	270500		05:29:21	05:29:32	05:29:32	05:29:32
220	SAID32	WIII	270530		05:37:50	05:37:48	05:37:48	05:37:48
221	SAID32	WIII	270600		06:10:24	06:10:18	06:10:18	06:10:18
222	SAID32	WIII	270600		06:29:02	06:29:05	06:29:05	06:29:05
223	SAID32	WIII	270630		06:40:47	06:40:41	06:40:41	06:40:41
224	SAID32	WIII	270700		07:10:26	07:10:09	07:10:09	07:10:09
225	SAID32	WIII	270730		07:40:16	07:40:11	07:40:11	07:40:11
226	SAID32	WIII	270730		07:45:54	07:45:49	07:45:53	07:45:53
227	SAID33	WIII	270200		02:10:25	02:10:18	02:10:18	02:10:18
228	SAID33	WIII	270230		02:40:19	02:40:19	02:40:19	02:40:19
229	SAID33	WIII	270300		03:10:21	03:10:16	03:10:16	03:10:16
230	SAID33	WIII	270330		03:40:40	03:40:31	03:40:31	03:40:31
231	SAID33	WIII	270400		04:10:25	04:10:16	04:10:16	04:10:16
232	SAID33	WIII	270430		04:40:22	04:40:15	04:40:15	04:40:15
233	SAID33	WIII	270430		04:43:38	04:43:36	04:43:36	04:43:36
234	SAID33	WIII	270430		04:58:45	04:58:38	04:58:38	04:58:38
235	SAID33	WIII	270430		04:58:50	04:58:38	04:58:38	04:58:38
236	SAID33	WIII	270430		04:58:54	04:58:37	04:58:47	04:58:47
237	SAID33	WIII	270430		04:58:58	04:58:46	04:58:47	04:58:47
238	SAID33	WIII	270430		04:59:00	04:58:52	04:58:57	04:58:57
239	SAID33	WIII	270430		04:59:09	04:59:08	04:59:08	04:59:08
240	SAID33	WIII	270430		04:59:19	04:59:37	04:59:37	04:59:37
241	SAID33	WIII	270500		05:07:54	05:07:46	05:08:00	05:08:00
242	SAID33	WIII	270500		05:28:49	05:28:34	05:28:44	05:28:44
243	SAID33	WIII	270500		05:28:52	05:28:39	05:28:44	05:28:44
244	SAID33	WIII	270500		05:28:53	05:28:43	05:28:55	05:28:55
245	SAID33	WIII	270500		05:29:42	05:29:33	05:29:33	05:29:33
246	SAID33	WIII	270500		05:29:44	05:29:43	05:29:43	05:29:43
247	SAID33	WIII	270500		05:29:46	05:29:43	05:29:43	05:29:43
248	SAID33	WIII	270500		05:29:47	05:29:43	05:29:43	05:29:43
249	SAID33	WIII	270500		05:29:49	05:29:43	05:29:43	05:29:43
250	SAID33	WIII	270530		05:37:53	05:37:48	05:37:48	05:37:48
251	SAID33	WIII	270600		06:10:41	06:10:38	06:10:38	06:10:38
252	SAID33	WIII	270630		06:40:44	06:40:41	06:40:41	06:40:41
253	SAID33	WIII	270700		07:10:29	07:10:19	07:10:19	07:10:19
254	SAID33	WIII	270700		07:16:45	07:16:41	07:16:41	07:16:41
255	SAID33	WIII	270730		07:40:44	07:40:40	07:40:40	07:40:40
256	SAIN31	VABB	270200		02:06:21	02:06:14	02:06:14	02:06:14
257	SAIN31	VABB	270230		02:36:38	02:36:26	02:36:26	02:36:26
258	SAIN31	VABB	270230	RRA	02:51:55	02:51:46	02:51:46	02:51:46
259	SAIN31	VABB	270300		03:06:18	03:06:09	03:06:09	03:06:09
260	SAIN31	VABB	270330		03:36:26	03:36:13	03:36:13	03:36:13
261	SAIN31	VABB	270330	RRA	03:51:57	03:51:44	03:51:44	03:51:44
262	SAIN31	VABB	270400		04:06:20	04:06:14	04:06:14	04:06:14
263	SAIN31	VABB	270430		04:36:28	04:36:17	04:36:17	04:36:17

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264	SAIN31	VABB	270500		05:06:42	05:06:18	05:06:18	05:06:18
265	SAIN31	VABB	270530		05:36:42	05:36:34	05:36:34	05:36:34
266	SAIN31	VABB	270530	RRA	05:38:20	05:38:12	05:38:12	05:38:12
267	SAIN31	VABB	270500	RRA	05:59:21	05:59:11	05:59:11	05:59:11
268	SAIN31	VABB	270530	RRB	06:00:35	06:00:14	06:00:14	06:00:14
269	SAIN31	VABB	270600		06:06:45	06:06:16	06:06:16	06:06:16
270	SAIN31	VABB	270630	RRA	06:40:42	06:40:30	06:40:30	06:40:30
271	SAIN31	VABB	270530	RRC	06:40:52	06:40:45	06:40:45	06:40:45
272	SAIN31	VABB	270600	RRA	06:40:54	06:40:46	06:40:46	06:40:46
273	SAIN31	VABB	270630	RRB	06:40:56	06:40:47	06:40:47	06:40:47
274	SAIN31	VABB	270630	RRC	06:41:22	06:41:18	06:41:18	06:41:18
275	SAIN31	VABB	270700		07:06:23	07:06:17	07:06:17	07:06:17
276	SAIN31	VABB	270730		07:36:18	07:36:08	07:36:08	07:36:08
277	SAIN32	VIDP	270200		02:06:12	02:05:59	02:06:05	02:06:05
278	SAIN32	VIDP	270200	RRA	02:11:14	02:11:02	02:11:07	02:11:07
279	SAIN32	VIDP	270230		02:36:21	02:36:05	02:36:12	02:36:12
280	SAIN32	VIDP	270300		03:06:15	03:06:07	03:06:07	03:06:07
281	SAIN32	VIDP	270300	RRA	03:11:16	03:11:10	03:11:10	03:11:10
282	SAIN32	VIDP	270330		03:36:21	03:36:11	03:36:11	03:36:11
283	SAIN32	VIDP	270400		04:06:37	04:06:29	04:06:29	04:06:29
284	SAIN32	VIDP	270430		04:37:28	04:37:23	04:37:23	04:37:23
285	SAIN32	VIDP	270500		05:06:47	05:06:33	05:06:33	05:06:33
286	SAIN32	VIDP	270530		05:37:30	05:37:24	05:37:24	05:37:24
287	SAIN32	VIDP	270530	RRA	05:42:00	05:41:55	05:42:00	05:42:00
288	SAIN32	VIDP	270600		06:06:48	06:06:30	06:06:30	06:06:30
289	SAIN32	VIDP	270630		06:37:04	06:36:58	06:37:02	06:37:02
290	SAIN32	VIDP	270700		07:06:54	07:06:29	07:06:29	07:06:29
291	SAIN32	VIDP	270730		07:36:44	07:36:35	07:36:35	07:36:35
292	SAIN33	VECC	270200		02:05:31	02:05:11	02:05:11	02:05:11
293	SAIN33	VECC	270230		02:35:31	02:35:10	02:35:10	02:35:10
294	SAIN33	VECC	270300		03:05:30	03:05:11	03:05:11	03:05:11
295	SAIN33	VECC	270300	RRA	03:15:26	03:15:10	03:15:10	03:15:10
296	SAIN33	VECC	270330		03:35:19	03:35:11	03:35:11	03:35:11
297	SAIN33	VECC	270400		04:05:33	04:05:12	04:05:12	04:05:12
298	SAIN33	VECC	270400	RRA	04:15:32	04:15:12	04:15:12	04:15:12
299	SAIN33	VECC	270430		04:35:22	04:35:13	04:35:13	04:35:13
300	SAIN33	VECC	270500		05:05:40	05:05:13	05:05:13	05:05:13
301	SAIN33	VECC	270500	CCA	05:12:19	05:12:08	05:12:08	05:12:08
302	SAIN33	VECC	270530		05:35:34	05:35:14	05:35:14	05:35:14
303	SAIN33	VECC	270530	CCA	05:51:31	05:51:23	05:51:23	05:51:23
304	SAIN33	VECC	270600		06:05:32	06:05:06	06:05:06	06:05:06
305	SAIN33	VECC	270630		06:35:22	06:35:06	06:35:06	06:35:06
306	SAIN33	VECC	270700		07:05:36	07:05:12	07:05:12	07:05:12
307	SAIN33	VECC	270730		07:35:25	07:35:09	07:35:09	07:35:09
308	SAIN33	VECC	270730	RRA	07:45:16	07:45:10	07:45:10	07:45:10

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309	SAJP31	RJTD	270200		02:06:53	02:06:43	02:06:43	02:06:43
310	SAJP31	RJTD	270300		03:06:55	03:06:44	03:06:44	03:06:44
311	SAJP31	RJTD	270400		04:06:48	04:06:43	04:06:43	04:06:43
312	SAJP31	RJTD	270500		05:06:51	05:06:44	05:06:44	05:06:44
313	SAJP31	RJTD	270600		06:06:50	06:06:43	06:06:43	06:06:43
314	SAJP31	RJTD	270700		07:06:56	07:06:44	07:06:44	07:06:44
315	SAJP32	RJTD	270200		02:06:56	02:06:45	02:06:45	02:06:45
316	SAJP32	RJTD	270200	RRA	02:06:58	02:06:45	02:06:45	02:06:45
317	SAJP32	RJTD	270300		03:06:58	03:06:45	03:06:45	03:06:45
318	SAJP32	RJTD	270300	RRA	03:07:00	03:06:45	03:06:45	03:06:45
319	SAJP32	RJTD	270400		04:06:51	04:06:44	04:06:44	04:06:44
320	SAJP32	RJTD	270400	RRA	04:06:57	04:06:45	04:06:45	04:06:45
321	SAJP32	RJTD	270500		05:06:53	05:06:46	05:06:46	05:06:46
322	SAJP32	RJTD	270500	RRA	05:06:55	05:06:46	05:06:46	05:06:46
323	SAJP32	RJTD	270600		06:06:52	06:06:45	06:06:45	06:06:45
324	SAJP32	RJTD	270600	RRA	06:06:54	06:06:46	06:06:46	06:06:46
325	SAJP32	RJTD	270700		07:06:58	07:06:45	07:06:45	07:06:45
326	SAJP32	RJTD	270700	RRA	07:07:00	07:06:45	07:06:45	07:06:45
327	SAJP38	RJTD	270200		02:07:00	02:06:46	02:06:46	02:06:46
328	SAJP38	RJTD	270200	RRA	02:07:03	02:06:47	02:06:47	02:06:47
329	SAJP38	RJTD	270300		03:07:02	03:06:46	03:06:46	03:06:46
330	SAJP38	RJTD	270300	RRA	03:07:04	03:06:47	03:06:47	03:06:47
331	SAJP38	RJTD	270400		04:06:59	04:06:46	04:06:46	04:06:46
332	SAJP38	RJTD	270400	RRA	04:07:01	04:06:47	04:06:47	04:06:47
333	SAJP38	RJTD	270500		05:06:57	05:06:46	05:06:46	05:06:46
334	SAJP38	RJTD	270500	RRA	05:06:59	05:06:47	05:06:47	05:06:47
335	SAJP38	RJTD	270600		06:06:56	06:06:46	06:06:46	06:06:46
336	SAJP38	RJTD	270600	RRA	06:06:58	06:06:47	06:06:47	06:06:47
337	SAJP38	RJTD	270700		07:07:02	07:06:46	07:06:46	07:06:46
338	SAJP38	RJTD	270700	RRA	07:07:04	07:06:46	07:06:46	07:06:46
339	SAKO31	RKSI	270200		02:05:48	02:05:23	02:05:23	02:05:23
340	SAKO31	RKSI	270200	RRA	02:06:43	02:06:33	02:06:33	02:06:33
341	SAKO31	RKSI	270230		02:35:45	02:35:21	02:35:21	02:35:21
342	SAKO31	RKSI	270300		03:05:46	03:05:21	03:05:21	03:05:21
343	SAKO31	RKSI	270330		03:35:33	03:35:20	03:35:20	03:35:20
344	SAKO31	RKSI	270400		04:05:56	04:05:23	04:05:23	04:05:23
345	SAKO31	RKSI	270430		04:35:37	04:35:28	04:35:28	04:35:28
346	SAKO31	RKSI	270500		05:05:50	05:05:35	05:05:35	05:05:35
347	SAKO31	RKSI	270530		05:35:51	05:35:20	05:35:20	05:35:20
348	SAKO31	RKSI	270600		06:05:43	06:05:24	06:05:24	06:05:24
349	SAKO31	RKSI	270600	RRA	06:21:26	06:21:18	06:21:18	06:21:18
350	SAKO31	RKSI	270630		06:35:41	06:35:25	06:35:25	06:35:25
351	SAKO31	RKSI	270700		07:05:51	07:05:22	07:05:22	07:05:22
352	SAKO31	RKSI	270730		07:35:38	07:35:18	07:35:18	07:35:18
353	SAMS31	WMKK	270200		02:08:13	02:08:05	02:08:05	02:08:05

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354	SAMS31	WMKK	270230		02:38:04	02:38:01	02:38:01	02:38:01
355	SAMS31	WMKK	270300		03:08:18	03:08:07	03:08:07	03:08:07
356	SAMS31	WMKK	270330		03:38:16	03:38:05	03:38:05	03:38:05
357	SAMS31	WMKK	270400		04:08:17	04:08:07	04:08:07	04:08:07
358	SAMS31	WMKK	270430		04:38:08	04:38:02	04:38:02	04:38:02
359	SAMS31	WMKK	270500		05:08:12	05:08:03	05:08:08	05:08:08
360	SAMS31	WMKK	270530		05:38:10	05:38:01	05:38:06	05:38:06
361	SAMS31	WMKK	270600		06:08:11	06:08:07	06:08:07	06:08:07
362	SAMS31	WMKK	270630		06:38:12	06:38:05	06:38:05	06:38:05
363	SAMS31	WMKK	270700		07:08:13	07:08:04	07:08:04	07:08:04
364	SAMS31	WMKK	270700	RRA	07:22:13	07:22:03	07:22:03	07:22:03
365	SAMS31	WMKK	270730		07:38:04	07:38:00	07:38:05	07:38:05
366	SAMS32	WMKK	270200		02:08:20	02:08:06	02:08:06	02:08:06
367	SAMS32	WMKK	270300		03:08:23	03:08:08	03:08:08	03:08:08
368	SAMS32	WMKK	270400		04:08:22	04:08:08	04:08:08	04:08:08
369	SAMS32	WMKK	270500		05:08:14	05:08:04	05:08:04	05:08:04
370	SAMS32	WMKK	270600		06:08:14	06:08:08	06:08:08	06:08:08
371	SAMS32	WMKK	270700		07:08:17	07:08:05	07:08:05	07:08:05
372	SAMS33	WMKK	270200		02:08:22	02:08:04	02:08:04	02:08:04
373	SAMS33	WMKK	270300		03:08:15	03:08:06	03:08:06	03:08:06
374	SAMS33	WMKK	270400		04:08:24	04:08:06	04:08:06	04:08:06
375	SAMS33	WMKK	270500		05:08:19	05:08:02	05:08:02	05:08:02
376	SAMS33	WMKK	270600		06:08:18	06:08:06	06:08:06	06:08:06
377	SAMS33	WMKK	270700		07:08:19	07:08:02	07:08:02	07:08:02
378	SAMS38	WMKK	270200		02:08:16	02:08:06	02:08:06	02:08:06
379	SAMS38	WMKK	270300		03:08:20	03:08:08	03:08:08	03:08:08
380	SAMS38	WMKK	270400		04:08:20	04:08:08	04:08:08	04:08:08
381	SAMS38	WMKK	270500		05:08:17	05:08:03	05:08:03	05:08:03
382	SAMS38	WMKK	270600		06:08:16	06:08:07	06:08:07	06:08:07
383	SAMS38	WMKK	270600	CCA	06:10:15	06:10:06	06:10:06	06:10:06
384	SAMS38	WMKK	270700		07:08:15	07:08:04	07:08:04	07:08:04
385	SAMV31	VRMM	270200		02:01:06	02:00:55	02:01:00	02:01:00
386	SAMV31	VRMM	270300		03:02:25	03:02:13	03:02:13	03:02:13
387	SAMV31	VRMM	270400		04:04:18	04:04:06	04:04:06	04:04:06
388	SAMV31	VRMM	270500		05:02:29	05:02:22	05:02:22	05:02:22
389	SAMV31	VRMM	270600		06:04:29	06:04:19	06:04:19	06:04:19
390	SAMV31	VRMM	270700		07:02:43	07:02:38	07:02:38	07:02:38
391	SANG31	YBBN	270200		02:05:18	02:05:02	02:05:02	---
392	SANG31	YBBN	270200	RRA	02:15:23	02:15:03	02:15:03	---
393	SANG31	YBBN	270300		03:05:18	03:05:03	03:05:03	---
394	SANG31	YBBN	270300	RRA	03:15:16	03:15:03	03:15:03	---
395	SANG31	YBBN	270400		04:05:22	04:05:06	04:05:06	---
396	SANG31	YBBN	270400	RRA	04:15:18	04:15:03	04:15:03	---
397	SANG31	YBBN	270500		05:05:14	05:05:03	05:05:03	---
398	SANG31	YBBN	270600		06:05:25	06:05:04	06:05:04	---

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399	SANG31	YBBN	270600	RRA	06:15:23	06:15:03	06:15:03	---
400	SANZ31	NZKL	270200		02:04:27	02:04:15	02:04:15	---
401	SANZ31	NZKL	270230		02:34:36	02:34:27	02:34:27	---
402	SANZ31	NZKL	270300		03:04:17	03:04:05	03:04:05	---
403	SANZ31	NZKL	270330		03:34:16	03:34:06	03:34:06	---
404	SANZ31	NZKL	270400		04:04:27	04:04:13	04:04:13	---
405	SANZ31	NZKL	270430		04:34:40	04:34:29	04:34:29	---
406	SANZ31	NZKL	270500		05:04:09	05:04:04	05:04:04	---
407	SANZ31	NZKL	270530		05:34:22	05:34:16	05:34:16	---
408	SANZ31	NZKL	270600		06:04:21	06:04:10	06:04:10	---
409	SANZ31	NZKL	270630		06:34:24	06:34:14	06:34:14	---
410	SANZ31	NZKL	270700		07:04:17	07:04:07	07:04:07	---
411	SANZ31	NZKL	270730		07:34:24	07:34:12	07:34:12	---
412	SANZ32	NZKL	270200		02:04:25	02:04:14	02:04:14	---
413	SANZ32	NZKL	270230		02:34:34	02:34:27	02:34:27	---
414	SANZ32	NZKL	270300		03:04:15	03:04:05	03:04:05	---
415	SANZ32	NZKL	270330		03:34:18	03:34:06	03:34:06	---
416	SANZ32	NZKL	270400		04:04:23	04:04:13	04:04:13	---
417	SANZ32	NZKL	270430		04:34:38	04:34:28	04:34:28	---
418	SANZ32	NZKL	270500		05:04:11	05:04:04	05:04:04	---
419	SANZ32	NZKL	270530		05:34:20	05:34:16	05:34:16	---
420	SANZ32	NZKL	270600		06:04:23	06:04:10	06:04:10	---
421	SANZ32	NZKL	270630		06:34:22	06:34:13	06:34:13	---
422	SANZ32	NZKL	270700		07:04:16	07:04:06	07:04:06	---
423	SANZ32	NZKL	270730		07:34:26	07:34:11	07:34:11	---
424	SAPK31	OPKC	270200		02:05:50	02:05:28	02:05:28	02:05:28
425	SAPK31	OPKC	270230		02:40:06	02:39:58	02:40:02	02:40:02
426	SAPK31	OPKC	270300		03:00:29	03:00:15	03:00:15	03:00:15
427	SAPK31	OPKC	270255	RRA	03:10:06	03:09:57	03:10:01	03:10:01
428	SAPK31	OPKC	270330		03:46:59	03:46:52	03:46:52	03:46:52
429	SAPK31	OPKC	270400		04:02:58	04:02:47	04:02:47	04:02:47
430	SAPK31	OPKC	270430		04:36:08	04:35:58	04:36:02	04:36:02
431	SAPK31	OPKC	270500		05:12:49	05:12:43	05:12:43	05:12:43
432	SAPK31	OPKC	270530		05:35:57	05:35:21	05:35:21	05:35:21
433	SAPK31	OPKC	270600		06:10:37	06:16:15	06:16:15	06:16:15
434	SAPK31	OPKC	270630		06:32:32	06:32:21	06:32:21	06:32:21
435	SAPK31	OPKC	270700		07:03:56	07:03:41	07:03:41	07:03:41
436	SAPK31	OPKC	270730		07:40:04	07:39:55	07:40:00	07:40:00
437	SAPS31	NFFN	270200		02:15:32	02:15:09	02:15:09	---
438	SAPS31	NFFN	270300		03:15:24	03:15:10	03:15:10	---
439	SAPS31	NFFN	270400		04:15:25	04:15:11	04:15:11	---
440	SAPS31	NFFN	270500		05:15:22	05:15:12	05:15:12	---
441	SAPS31	NFFN	270600		06:15:30	06:15:08	06:15:08	---
442	SAPS31	NFFN	270700		07:15:27	07:15:09	07:15:09	---
443	SAPS32	NFFN	270200		02:03:14	02:03:09	02:03:09	---

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444	SAPS32	NFFN	270300		03:05:49	03:05:25	03:05:25	---
445	SAPS32	NFFN	270400		04:04:21	04:04:11	04:04:11	---
446	SAPS32	NFFN	270500		05:03:19	05:03:07	05:03:07	---
447	SAPS32	NFFN	270600		06:03:56	06:03:28	06:03:28	---
448	SAPS32	NFFN	270700		07:03:58	07:03:44	07:03:44	---
449	SAPS33	NFFN	270200		02:03:41	02:03:19	02:03:19	---
450	SAPS33	NFFN	270300		03:04:00	03:03:20	03:03:20	---
451	SAPS33	NFFN	270400		04:03:46	04:03:26	04:03:26	---
452	SAPS33	NFFN	270500		05:03:50	05:03:22	05:03:22	---
453	SAPS33	NFFN	270600		06:03:54	06:03:27	06:03:27	---
454	SAPS33	NFFN	270700		07:03:38	07:03:14	07:03:14	---
455	SASB31	VCCC	270200		02:20:34	02:23:56	02:24:00	02:24:00
456	SASB31	VCCC	270210		02:23:48	02:20:26	02:20:26	02:20:26
457	SASB31	VCCC	270300		03:05:19	03:05:29	03:05:29	03:05:29
458	SASB31	VCCC	270310		03:20:16	03:20:10	03:20:10	03:20:10
459	SASB31	VCCC	270400		04:13:50	04:13:57	04:14:01	04:14:01
460	SASB31	VCCC	270410		04:20:59	04:20:54	04:20:58	04:20:58
461	SASB31	VCCC	270500		05:04:54	05:05:02	05:05:02	05:05:02
462	SASB31	VCCC	270510		05:20:50	05:20:37	05:20:37	05:20:37
463	SASB31	VCCC	270600		06:10:56	06:11:03	06:11:03	06:11:03
464	SASB31	VCCC	270610		06:20:31	06:20:19	06:20:19	06:20:19
465	SASB31	VCCC	270700		07:18:34	07:18:44	07:18:44	07:18:44
466	SASB31	VCCC	270710		07:21:13	07:20:58	07:21:02	07:21:02
467	SATH31	VTBB	270200		02:05:09	02:05:11	02:05:11	02:05:11
468	SATH31	VTBB	270300		03:05:08	03:05:09	03:05:09	03:05:09
469	SATH31	VTBB	270400		04:05:07	04:05:08	04:05:08	04:05:08
470	SATH31	VTBB	270500		05:05:07	05:05:09	05:05:09	05:05:09
471	SATH31	VTBB	270600		06:05:14	06:05:15	06:05:15	06:05:15
472	SATH31	VTBB	270700		07:05:07	07:05:09	07:05:09	07:05:09
473	SATH32	VTBB	270200		02:05:12	02:05:13	02:05:13	02:05:13
474	SATH32	VTBB	270300		03:05:11	03:05:12	03:05:12	03:05:12
475	SATH32	VTBB	270400		04:05:10	04:05:11	04:05:11	04:05:11
476	SATH32	VTBB	270500		05:05:10	05:05:11	05:05:11	05:05:11
477	SATH32	VTBB	270600		06:05:17	06:05:18	06:05:18	06:05:18
478	SATH32	VTBB	270700		07:05:10	07:05:11	07:05:11	07:05:11
479	SATH33	VTBB	270200		02:05:15	02:05:16	02:05:16	02:05:16
480	SATH33	VTBB	270300		03:05:14	03:05:15	03:05:15	03:05:15
481	SATH33	VTBB	270400		04:05:13	04:05:15	04:05:15	04:05:15
482	SATH33	VTBB	270500		05:05:13	05:05:15	05:05:15	05:05:15
483	SATH33	VTBB	270600		06:05:20	06:05:22	06:05:22	06:05:22
484	SATH33	VTBB	270600	RRA	06:08:43	06:08:45	06:08:45	06:08:45
485	SATH33	VTBB	270700		07:05:13	07:05:14	07:05:14	07:05:14
486	SAXX31	VQPR	270200		02:00:35	02:00:28	02:00:28	02:00:28
487	SAXX31	VQPR	270230		02:30:05	02:29:57	02:30:01	02:30:01
488	SAXX31	VQPR	270300		03:00:47	03:00:41	03:00:41	03:00:41

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489	SAXX31	VQPR	270330		03:31:06	03:30:54	03:30:54	03:30:54
490	SAXX31	VQPR	270400		04:00:27	04:00:10	04:00:10	04:00:10
491	SAXX31	VQPR	270430		04:29:48	04:29:38	04:29:38	04:29:38
492	SAXX31	VQPR	270500		04:58:10	04:58:03	04:58:03	04:58:03
493	SAXX31	VQPR	270530		05:31:40	05:31:35	05:31:35	05:31:35
494	SAXX31	VQPR	270600		05:54:31	05:54:18	05:54:18	05:54:18
495	SAXX31	VQPR	270630		06:25:32	06:25:27	06:25:27	06:25:27
496	SAXX31	VQPR	270700		06:58:44	06:58:31	06:58:31	06:58:31
497	SAXX31	VQPR	270730		07:30:45	07:30:34	07:30:34	07:30:34
498	SAXX31	VQPR	270800		07:58:46	07:58:34	07:58:34	07:58:34

TAF Bulletins

					Recorded by VTBB RODB	Recorded by WSSS RODB	Recorded by WSSS RODB	Recorded by 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	270500		05:35:02	05:35:05	05:35:05	05:35:05
2	FTAE31	VTBB	270500	AAA	06:24:43	06:24:45	06:24:45	06:24:45
3	FTAE31	VTBB	270500	AAB	06:26:00	06:26:03	06:26:03	06:26:03
4	FTAE32	VTBB	270500		05:35:06	05:35:08	05:35:08	05:35:08
5	FTAE33	VTBB	270500		05:35:09	05:35:11	05:35:11	05:35:11
6	FTAE34	VTBB	270500		05:35:12	05:35:14	05:35:14	05:35:14
7	FTAU31	YBBN	270200		02:23:44	02:23:36	02:23:36	---
8	FTAU31	YBBN	270200		02:26:44	02:26:34	02:26:34	---
9	FTAU31	YBBN	270200		02:50:15	02:50:02	02:50:06	---
10	FTAU31	YBBN	270300		03:47:37	03:47:27	03:47:27	---
11	FTAU31	YBBN	270500		05:01:26	05:00:58	05:01:02	---
12	FTAU31	YBBN	270500		05:14:21	05:14:15	05:14:15	---
13	FTAU31	YBBN	270500		05:21:31	05:21:24	05:21:24	---
14	FTAU31	YBBN	270500		05:50:11	05:50:04	05:50:08	---
15	FTAU32	YBBN	270300		03:06:41	03:06:18	03:06:18	---
16	FTAU32	YBBN	270300		03:15:46	03:15:34	03:15:34	---
17	FTAU32	YBBN	270300		03:39:06	03:39:03	03:39:08	---
18	FTAU32	YBBN	270300		03:55:57	03:55:52	03:55:58	---
19	FTAU32	YBBN	270400		04:19:18	04:19:11	04:19:11	---
20	FTAU32	YBBN	270500		05:08:11	05:08:01	05:08:05	---
21	FTAU32	YBBN	270500		05:14:49	05:14:45	05:14:45	---
22	FTAU32	YBBN	270500		05:18:49	05:18:45	05:18:45	---
23	FTAU32	YBBN	270500		05:35:16	05:35:06	05:35:06	---
24	FTAU32	YBBN	270600		06:09:01	06:08:49	06:08:49	---
25	FTAU32	YBBN	270600		06:40:14	06:40:09	06:40:09	---
26	FTAU32	YBBN	270700		07:58:04	07:57:55	07:58:00	---
27	FTAU33	YBBN	270500		05:31:30	05:31:18	05:31:18	---

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28	FTAU33	YBBN	270500		05:35:19	05:35:06	05:35:06	---
29	FTAU34	YBBN	270500		05:00:13	05:00:05	05:00:10	---
30	FTAU34	YBBN	270500	RRA	05:40:11	05:40:04	05:40:08	---
31	FTAU35	YBBN	270600		06:39:22	06:39:13	06:39:13	---
32	FTAU35	YBBN	270700		07:02:14	07:02:07	07:02:07	---
33	FTAU35	YBBN	270700	RRA	07:10:19	07:10:05	07:10:05	---
34	FTAU36	YBBN	270200		02:35:29	02:35:05	02:35:05	---
35	FTAU36	YBBN	270200		02:53:55	02:53:45	02:53:45	---
36	FTAU36	YBBN	270300		03:24:46	03:24:39	03:24:39	---
37	FTAU36	YBBN	270500		05:20:22	05:20:11	05:20:11	---
38	FTAU36	YBBN	270500		05:23:51	05:23:42	05:23:42	---
39	FTAU36	YBBN	270500		05:25:00	05:24:52	05:24:52	---
40	FTAU36	YBBN	270500		05:35:14	05:35:06	05:35:06	---
41	FTCI31	ZBBB	270400		04:00:17	04:00:07	04:00:07	04:00:07
42	FTCI31	ZBBB	270452	RRA	04:53:42	04:52:06	04:52:06	04:52:06
43	FTCI31	ZBBB	270458	RRB	04:59:04	04:58:56	04:59:00	04:59:00
44	FTCI31	ZBBB	270658	AAA	06:58:24	06:58:19	06:58:19	06:58:19
45	FTCI32	ZBBB	270335	AAA	03:37:06	03:36:12	03:36:12	03:36:12
46	FTCI32	ZBBB	270400		04:01:28	04:01:14	04:01:14	04:01:14
47	FTCI32	ZBBB	270452	RRA	04:53:40	04:52:06	04:52:06	04:52:06
48	FTCI32	ZBBB	270510	RRB	05:12:13	05:10:59	05:11:03	05:11:03
49	FTCI41	ZBBB	270400		04:01:32	04:01:16	04:01:16	04:01:16
50	FTHK31	VHHH	270200		02:01:43	02:01:38	02:01:38	02:01:38
51	FTHK31	VHHH	270500		05:01:35	05:01:12	05:01:12	05:01:12
52	FTHK32	VHHH	270500		05:20:20	05:20:08	05:20:08	05:20:08
53	FTHK33	VHHH	270500		05:20:24	05:20:14	05:20:14	05:20:14
54	FTHK33	VHHH	270500	CCA	05:41:00	05:40:53	05:40:53	05:40:53
55	FTIN31	VABB	270500	PAA	05:41:12	05:36:18	05:36:18	05:36:18
56	FTIN31	VABB	270500	PZB	05:36:30	05:36:19	05:36:19	05:36:19
57	FTIN31	VABB	270500	RRA	05:36:31	05:41:04	05:41:04	05:41:04
58	FTIN32	VABB	270500	PAA	05:36:31	05:36:28	05:36:28	05:36:28
59	FTIN32	VABB	270500	PZB	05:36:31	05:36:29	05:36:29	05:36:29
60	FTJP31	RJTD	270500		05:27:40	05:27:32	05:27:32	05:27:32
61	FTJP31	RJTD	270500	RRA	05:27:42	05:27:33	05:27:33	05:27:33
62	FTJP31	RJTD	270500	AAA	07:37:24	07:37:15	07:37:15	07:37:15
63	FTJP32	RJTD	262300	AAA	02:41:55	02:41:47	02:41:47	02:41:47
64	FTJP32	RJTD	270500		05:27:44	05:27:33	05:27:33	05:27:33
65	FTJP32	RJTD	270500	RRA	05:27:50	05:27:34	05:27:34	05:27:34
66	FTJP38	RJTD	262300	AAB	02:41:35	02:41:26	02:41:26	02:41:26
67	FTJP38	RJTD	270500		05:27:48	05:27:35	05:27:35	05:27:35
68	FTJP38	RJTD	270500	RRA	05:27:46	05:27:35	05:27:35	05:27:35
69	FTJP38	RJTD	270500	RRB	05:27:52	05:27:36	05:27:36	05:27:36
70	FTJP38	RJTD	270500	AAA	06:37:02	06:36:53	06:36:53	06:36:53
71	FTKO31	RKSI	270350	AAA	03:50:57	03:50:47	03:50:47	03:50:47
72	FTKO31	RKSI	270350	CCA	04:13:27	04:13:19	04:13:19	04:13:19

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73	FTKO31	RKSI	270413	AAB	04:14:48	04:14:38	04:14:38	04:14:38
74	FTKO31	RKSI	270500		05:06:45	05:06:30	05:06:30	05:06:30
75	FTMS40	WMKK	270500		05:03:20	04:45:03	04:45:03	04:45:03
76	FTNZ31	NZKL	270200		02:22:05	02:22:01	02:22:01	---
77	FTNZ31	NZKL	270500		05:00:09	05:00:00	05:00:05	---
78	FTNZ32	NZKL	270500	AAA	05:53:01	05:52:49	05:52:49	---
79	FTPK31	OPKC	270500		05:28:00	05:27:55	05:28:00	05:28:00
80	FTPS31	NFFN	270500		05:07:59	05:07:48	05:07:48	---
81	FTPS32	NFFN	270500		05:25:40	05:25:27	05:25:27	---
82	FTPS33	NFFN	270500		05:05:59	05:05:47	05:05:47	---
83	FTSR31	WSSS	270500		05:11:59	05:11:44	05:11:44	05:11:44
84	FTSR31	WSSS	270500	RRA	06:35:52	06:35:41	06:35:41	06:35:41
85	FTSR32	WSSS	270500		05:12:23	05:12:07	05:12:07	05:12:07
86	FTSR33	WSSS	270500		05:13:19	05:13:08	05:13:08	05:13:08
87	FTTH31	VTBB	270500		05:35:16	05:35:17	05:35:17	05:35:17
88	FTTH32	VTBB	270500		05:35:20	05:35:21	05:35:21	05:35:21
89	FTTH32	VTBB	270500	AAA	06:24:48	06:24:49	06:24:49	06:24:49
90	FTTH32	VTBB	270500	AAB	06:25:54	06:25:55	06:26:00	06:26:00
91	FTTH33	VTBB	270500		05:35:23	05:35:24	05:35:24	05:35:24
92	FTTM31	YBBN	270500		5:35:04	05:35:06	05:35:06	---

--- Not required by AFI