

International Civil Aviation Organization



ICAO

WORKING PAPER (WP/14)

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 BACK-UP EXERCISE BETWEEN IROG BANGKOK AND IROG SINGAPORE
(Presented by Thailand)

SUMMARY

This working paper provides the results of the nineteenth real time back-up exercise conducted by IROG Singapore and IROG Bangkok in the event that IROG Singapore experiences technical problems.

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.

1.2 The IROG back-up exercise will be carried out annually the exercise between IROG Singapore and IROG Bangkok was conducted on 18 September 2024. And the communication test through fax and E-mail is on 17 September 2024.

1.3 the IROG Back-up procedures is in ROBEX HB Appendix – C IROG Back-up Procedures

1.4 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. DISCUSSION

2.1 the results of 5 previous exercises are listed as follows;

Year	2020	2021	2022	2023	2024
RODB Bangkok Successfully transmitted	100%	99.70%	99.83%	100%	100%

2.2 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
SA Bulletin	556	556	556	100%	0
FT Bulletin	104	104	104	100%	0
Total	660	660	660	100%	0

2.3 The back-up test results, IROG Singapore received METAR 556, while IROG Bangkok received 556 and transmitted 556 (100%) to IROG London during the test.

2.4 The back-up test results, IROG Singapore received TAF 104, while IROG Bangkok received 104 and transmitted 104 (100%) to IROG London during the test.

2.5 The total result of IROG Singapore received METAR and TAF 660, IROG Bangkok received METAR and TAF 660 and transmitted to IROG London 660.

Update on IROG Backup exercise for IWXXM Data

2.6 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].

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

3 ACTION BY THE MEETING

The meeting is invited to:

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

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Appendix A : Summary Table of Switching of ASIA/PAC and MID OPMET Bulletins
on 15 September 2024

METAR Bulletins							
					Recorded by	Recorded by	Recorded by
					WSSS RODB RX Time UTC	VTBB RODB RX Time UTC	VTBB RODB TX Time UTC
No.	TTAAii	CCCC	YYGGgg	BBB	(hh:mm)	(hh:mm)	(hh:mm)
1	SAAE31	VTBB	180200		02:05:02	02:05:00	02:05:02
2	SAAE31	VTBB	180230		02:35:04	02:35:00	02:35:02
3	SAAE31	VTBB	180300		03:05:04	03:05:00	03:05:02
4	SAAE31	VTBB	180330		03:35:03	03:35:00	03:35:02
5	SAAE31	VTBB	180400		04:05:05	04:05:00	04:05:02
6	SAAE31	VTBB	180430		04:35:03	04:35:00	04:35:02
7	SAAE31	VTBB	180500		05:05:03	05:05:00	05:05:02
8	SAAE31	VTBB	180530		05:35:03	05:35:00	05:35:03
9	SAAE31	VTBB	180600		06:05:03	06:05:00	06:05:03
10	SAAE31	VTBB	180630		06:35:03	06:35:00	06:35:02
11	SAAE31	VTBB	180700		07:05:03	07:05:00	07:05:02
12	SAAE31	VTBB	180730		07:35:03	07:35:00	07:35:03
13	SAAE31	VTBB	180800		08:05:04	08:05:00	08:05:03
14	SAAE32	VTBB	180200		02:05:07	02:05:05	02:05:07
15	SAAE32	VTBB	180230		02:35:07	02:35:05	02:35:07
16	SAAE32	VTBB	180300		03:05:08	03:05:05	03:05:07
17	SAAE32	VTBB	180330		03:35:07	03:35:05	03:35:06
18	SAAE32	VTBB	180400		04:05:07	04:05:05	04:05:06
19	SAAE32	VTBB	180430	CCA	04:36:14	04:36:12	04:36:13
20	SAAE32	VTBB	180430		04:35:07	04:35:06	04:35:07
21	SAAE32	VTBB	180500		05:05:07	05:05:05	05:05:06
22	SAAE32	VTBB	180530		05:35:11	05:35:09	05:35:10
23	SAAE32	VTBB	180600		06:05:09	06:05:08	06:05:09
24	SAAE32	VTBB	180630		06:35:07	06:35:05	06:35:06
25	SAAE32	VTBB	180700		07:05:07	07:05:05	07:05:06
26	SAAE32	VTBB	180730		07:35:07	07:35:06	07:35:07
27	SAAE32	VTBB	180800		08:05:08	08:05:06	08:05:07
28	SAAE33	VTBB	180200		02:05:11	02:05:10	02:05:11
29	SAAE33	VTBB	180300		03:05:12	03:05:10	03:05:11
30	SAAE33	VTBB	180400		04:05:10	04:05:09	04:05:10
31	SAAE33	VTBB	180500		05:05:11	05:05:09	05:05:10
32	SAAE33	VTBB	180600		06:05:14	06:05:10	06:05:14
33	SAAE33	VTBB	180700	RRA	07:15:47	07:15:40	07:15:47
34	SAAE33	VTBB	180700		07:05:10	07:05:10	07:05:10
35	SAAE33	VTBB	180800		08:05:12	08:05:10	08:05:11
36	SAAE34	VTBB	180200		02:05:15	02:05:10	02:05:15
37	SAAE34	VTBB	180230	RRA	02:35:50	02:35:40	02:35:49

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38	SAAE34	VTBB	180230		02:35:12	02:35:10	02:35:11
39	SAAE34	VTBB	180300		03:05:15	03:05:10	03:05:15
40	SAAE34	VTBB	180330	RRA	03:40:23	03:40:20	03:40:22
41	SAAE34	VTBB	180330		03:35:10	03:35:10	03:35:10
42	SAAE34	VTBB	180400		04:05:14	04:05:10	04:05:13
43	SAAE34	VTBB	180430	RRA	04:36:18	04:36:10	04:36:17
44	SAAE34	VTBB	180430		04:35:11	04:35:10	04:35:11
45	SAAE34	VTBB	180500		05:05:14	05:05:10	05:05:14
46	SAAE34	VTBB	180530	RRA	05:41:34	05:41:30	05:41:34
47	SAAE34	VTBB	180530		05:35:14	05:35:10	05:35:14
48	SAAE34	VTBB	180600		06:05:20	06:05:10	06:05:19
49	SAAE34	VTBB	180630		06:35:11	06:35:10	06:35:10
50	SAAE34	VTBB	180700		07:05:14	07:05:10	07:05:13
51	SAAE34	VTBB	180730		07:35:11	07:35:10	07:35:11
52	SAAE34	VTBB	180800		08:05:15	08:05:10	08:05:15
53	SAAR20	OEJD	180200		02:15:05	02:15:26	02:15:30
54	SAAR20	OEJD	180300		03:15:05	03:15:32	03:15:36
55	SAAR20	OEJD	180400		04:15:05	04:15:36	04:15:40
56	SAAR20	OEJD	180500		05:15:06	05:15:24	05:15:28
57	SAAR20	OEJD	180600		06:15:07	06:15:36	06:15:40
58	SAAR20	OEJD	180600	RRA	06:25:08	06:25:20	06:25:21
59	SAAR20	OEJD	180700		07:15:07	07:15:29	07:15:34
60	SAAR20	OEJD	180700	CCA	07:25:08	07:25:22	07:25:23
61	SAAU31	YBBN	180200		02:06:02	02:07:47	02:07:50
62	SAAU31	YBBN	180230		02:36:02	02:36:06	02:36:08
63	SAAU31	YBBN	180300		03:06:04	03:06:23	03:06:26
64	SAAU31	YBBN	180330		03:36:03	03:36:11	03:36:13
65	SAAU31	YBBN	180400		04:06:03	04:06:18	04:06:21
66	SAAU31	YBBN	180430		04:36:04	04:36:22	04:36:25
67	SAAU31	YBBN	180500		05:06:05	05:06:29	05:06:32
68	SAAU31	YBBN	180530		05:36:05	05:36:35	05:36:39
69	SAAU31	YBBN	180600		06:06:06	06:06:32	06:06:34
70	SAAU31	YBBN	180630		06:36:03	06:36:12	06:36:14
71	SAAU31	YBBN	180700		07:06:04	07:06:20	07:06:23
72	SAAU31	YBBN	180730		07:36:03	07:36:24	07:36:27
73	SAAU31	YBBN	180730	RRA	07:46:03	07:46:22	07:46:23
74	SAAU32	YBBN	180200		02:05:05	02:05:29	02:05:32
75	SAAU32	YBBN	180230		02:35:00	02:35:03	02:35:06
76	SAAU32	YBBN	180300		03:05:02	03:05:30	03:05:33
77	SAAU32	YBBN	180330		03:35:06	03:35:24	03:35:27
78	SAAU32	YBBN	180400		04:05:01	04:05:18	04:05:21
79	SAAU32	YBBN	180430		04:35:06	04:35:22	04:35:25

80	SAAU32	YBBN	180430	RRA	04:45:05	04:45:19	04:45:21
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81	SAAU32	YBBN	180500		05:05:03	05:05:33	05:05:36
82	SAAU32	YBBN	180530		05:35:07	05:35:52	05:35:56
83	SAAU32	YBBN	180600		06:05:07	06:05:47	06:05:50
84	SAAU32	YBBN	180630		06:35:06	06:35:30	06:35:33
85	SAAU32	YBBN	180700		07:05:02	07:05:23	07:05:26
86	SAAU32	YBBN	180730		07:35:01	07:35:07	07:35:10
87	SAAU32	YBBN	180800		08:05:04	08:05:30	08:05:33
88	SAAU33	YBBN	180200		02:05:05	02:05:34	02:05:36
89	SAAU33	YBBN	180230		02:35:00	02:35:10	02:35:13
90	SAAU33	YBBN	180300		03:05:03	03:05:27	03:05:29
91	SAAU33	YBBN	180330		03:35:06	03:35:28	03:35:30
92	SAAU33	YBBN	180400		04:05:01	04:05:22	04:05:25
93	SAAU33	YBBN	180430		04:35:06	04:35:26	04:35:28
94	SAAU33	YBBN	180500		05:05:03	05:05:37	05:05:39
95	SAAU33	YBBN	180530		05:35:05	05:35:25	05:35:28
96	SAAU33	YBBN	180600		06:05:05	06:05:30	06:05:33
97	SAAU33	YBBN	180630		06:35:05	06:35:25	06:35:27
98	SAAU33	YBBN	180700		07:05:03	07:05:32	07:05:35
99	SAAU33	YBBN	180730		07:35:02	07:35:13	07:35:16
100	SAAU33	YBBN	180800		08:05:05	08:05:47	08:05:49
101	SAAU34	YBBN	180200		02:05:06	02:05:37	02:05:39
102	SAAU34	YBBN	180230		02:35:01	02:35:08	02:35:10
103	SAAU34	YBBN	180300		03:05:03	03:05:35	03:05:37
104	SAAU34	YBBN	180330		03:35:06	03:35:31	03:35:33
105	SAAU34	YBBN	180400		04:05:02	04:05:29	04:05:31
106	SAAU34	YBBN	180430		04:35:06	04:35:32	04:35:34
107	SAAU34	YBBN	180500		05:05:03	05:05:40	05:05:43
108	SAAU34	YBBN	180530		05:35:05	05:35:30	05:35:32
109	SAAU34	YBBN	180600		06:05:06	06:05:37	06:05:40
110	SAAU34	YBBN	180630		06:35:06	06:35:28	06:35:30
111	SAAU34	YBBN	180700		07:05:03	07:05:41	07:05:43
112	SAAU34	YBBN	180730		07:35:02	07:35:17	07:35:19
113	SAAU34	YBBN	180800		08:05:05	08:05:50	08:05:52
114	SAAU35	YBBN	180200		02:05:05	02:05:27	02:05:29
115	SAAU35	YBBN	180230		02:35:01	02:35:16	02:35:18
116	SAAU35	YBBN	180300		03:05:03	03:05:40	03:05:43
117	SAAU35	YBBN	180330		03:35:06	03:35:33	03:35:35
118	SAAU35	YBBN	180400		04:05:02	04:05:31	04:05:33
119	SAAU35	YBBN	180430		04:35:00	04:35:16	04:35:18
120	SAAU35	YBBN	180430		04:35:07	04:35:29	04:35:31
121	SAAU35	YBBN	180500		05:05:03	05:05:23	05:05:25
122	SAAU35	YBBN	180530		05:35:05	05:35:22	05:35:24
123	SAAU35	YBBN	180600		06:05:05	06:05:34	06:05:37

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124	SAAU35	YBBN	180630		06:35:05	06:35:22	06:35:24
125	SAAU35	YBBN	180700		07:05:03	07:05:30	07:05:32
126	SAAU35	YBBN	180730		07:35:01	07:35:11	07:35:13
127	SAAU35	YBBN	180800		08:05:05	08:05:35	08:05:37
128	SAAU36	YBBN	180200		02:06:02	02:07:51	02:07:53
129	SAAU36	YBBN	180230		02:36:02	02:36:03	02:36:05
130	SAAU36	YBBN	180300		03:06:04	03:06:27	03:06:30
131	SAAU36	YBBN	180330		03:36:03	03:36:07	03:36:10
132	SAAU36	YBBN	180330	RRA	03:46:01	03:46:16	03:46:18
133	SAAU36	YBBN	180400		04:06:04	04:06:15	04:06:17
134	SAAU36	YBBN	180430		04:36:04	04:36:19	04:36:21
135	SAAU36	YBBN	180500		05:06:05	05:06:26	05:06:28
136	SAAU36	YBBN	180530		05:36:04	05:36:40	05:36:44
137	SAAU36	YBBN	180600		06:06:05	06:06:28	06:06:31
138	SAAU36	YBBN	180630		06:36:02	06:36:15	06:36:17
139	SAAU36	YBBN	180700		07:06:04	07:06:24	07:06:26
140	SAAU36	YBBN	180730		07:36:03	07:36:21	07:36:24
141	SABN31	OBBI	180200		02:00:53	02:00:51	02:00:53
142	SABN31	OBBI	180200		02:09:07	02:09:16	02:09:18
143	SABN31	OBBI	180200		02:10:09	02:10:12	02:10:15
144	SABN31	OBBI	180200		02:10:15	02:10:20	02:10:23
145	SABN31	OBBI	180200		02:10:25	02:10:34	02:10:36
146	SABN31	OBBI	180200		02:18:11	02:18:14	02:18:17
147	SABN31	OBBI	180230		02:31:06	02:31:04	02:31:06
148	SABN31	OBBI	180230		02:39:10	02:39:13	02:39:15
149	SABN31	OBBI	180300		03:01:42	03:01:39	03:01:41
150	SABN31	OBBI	180300		03:08:08	03:08:47	03:08:49
151	SABN31	OBBI	180300		03:10:08	03:10:14	03:10:16
152	SABN31	OBBI	180300		03:10:16	03:10:20	03:10:23
153	SABN31	OBBI	180300		03:10:24	03:10:24	03:10:27
154	SABN31	OBBI	180300		03:19:15	03:19:34	03:19:36
155	SABN31	OBBI	180400		04:10:14	04:10:15	04:10:17
156	SABN31	OBBI	180400		04:10:18	04:10:22	04:10:24
157	SABN31	OBBI	180400		04:10:24	04:10:27	04:10:29
158	SABN31	OBBI	180400		04:19:36	04:19:47	04:19:49
159	SABN31	OBBI	180430		04:50:26	04:50:25	04:50:26
160	SABN31	OBBI	180430		04:58:05	04:58:17	04:58:18
161	SABN31	OBBI	180500		05:10:09	05:10:14	05:10:16
162	SABN31	OBBI	180500		05:10:17	05:10:16	05:10:19
163	SABN31	OBBI	180500		05:10:19	05:10:20	05:10:22
164	SABN31	OBBI	180500		05:18:11	05:18:27	05:18:30
165	SABN31	OBBI	180530		05:31:23	05:31:21	05:31:23
166	SABN31	OBBI	180530		05:39:13	05:39:28	05:39:29

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167	SABN31	OBBI	180600		06:03:01	06:02:59	06:03:01
168	SABN31	OBBI	180600		06:08:19	06:08:37	06:08:38
169	SABN31	OBBI	180600		06:10:21	06:10:19	06:10:21
170	SABN31	OBBI	180600		06:10:25	06:10:22	06:10:24
171	SABN31	OBBI	180600		06:11:05	06:11:11	06:11:14
172	SABN31	OBBI	180600		06:18:14	06:18:19	06:18:21
173	SABN31	OBBI	180630		06:32:39	06:32:36	06:32:38
174	SABN31	OBBI	180630		06:38:12	06:38:25	06:38:27
175	SABN31	OBBI	180700		07:01:18	07:01:16	07:01:18
176	SABN31	OBBI	180700		07:09:14	07:09:22	07:09:24
177	SABN31	OBBI	180700		07:10:10	07:10:26	07:10:28
178	SABN31	OBBI	180700		07:10:28	07:10:29	07:10:31
179	SABN31	OBBI	180700		07:10:31	07:10:32	07:10:34
180	SABN31	OBBI	180700		07:18:12	07:18:31	07:18:33
181	SABN31	OBBI	180730		07:31:01	07:30:59	07:31:01
182	SABN31	OBBI	180730		07:39:12	07:39:21	07:39:23
183	SABN31	OBBI	180800		08:00:25	08:00:23	08:00:24
184	SACI31	ZBBB	180200		02:06:11	02:06:17	02:06:19
185	SACI31	ZBBB	180230		02:35:39	02:35:42	02:35:45
186	SACI31	ZBBB	180300		03:05:06	03:08:01	03:08:04
187	SACI31	ZBBB	180330		03:35:06	03:36:29	03:36:32
188	SACI31	ZBBB	180400		04:06:12	04:06:26	04:06:29
189	SACI31	ZBBB	180430		04:36:12	04:36:29	04:36:31
190	SACI31	ZBBB	180500		05:05:07	05:06:49	05:06:51
191	SACI31	ZBBB	180530		05:35:06	05:37:40	05:37:43
192	SACI31	ZBBB	180600		06:06:13	06:06:41	06:06:44
193	SACI31	ZBBB	180630		06:35:38	06:35:35	06:35:37
194	SACI31	ZBBB	180700		07:06:12	07:06:40	07:06:43
195	SACI31	ZBBB	180730		07:35:06	07:36:02	07:36:04
196	SACI32	ZBBB	180200		02:06:12	02:06:24	02:06:27
197	SACI32	ZBBB	180300		03:05:07	03:08:19	03:08:22
198	SACI32	ZBBB	180400		04:06:14	04:06:30	04:06:33
199	SACI32	ZBBB	180500		05:05:08	05:06:56	05:06:59
200	SACI32	ZBBB	180600		06:06:13	06:06:50	06:06:53
201	SACI32	ZBBB	180700		07:06:13	07:06:44	07:06:47
202	SACI41	ZBBB	180200		02:06:13	02:06:28	02:06:32
203	SACI41	ZBBB	180300		03:05:09	03:08:15	03:08:18
204	SACI41	ZBBB	180400		04:06:14	04:06:40	04:06:42
205	SACI41	ZBBB	180500		05:06:15	05:07:00	05:07:03
206	SACI41	ZBBB	180600		06:06:14	06:06:54	06:06:57
207	SACI41	ZBBB	180700		07:06:13	07:06:52	07:06:55
208	SAHK31	VHHH	180200		02:06:09	02:07:53	02:07:56
209	SAHK31	VHHH	180200	CCA	02:09:49	02:09:52	02:09:54

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210	SAHK31	VHHH	180230		02:36:14	02:36:23	02:36:25
211	SAHK31	VHHH	180300		03:06:16	03:06:30	03:06:34
212	SAHK31	VHHH	180300	CCA	03:07:15	03:07:33	03:07:36
213	SAHK31	VHHH	180330		03:36:12	03:36:24	03:36:26
214	SAHK31	VHHH	180400		04:06:12	04:06:22	04:06:25
215	SAHK31	VHHH	180430		04:36:12	04:36:26	04:36:28
216	SAHK31	VHHH	180500		05:06:14	05:06:41	05:06:44
217	SAHK31	VHHH	180530		05:36:14	05:36:53	05:36:56
218	SAHK31	VHHH	180530	CCA	05:36:24	05:37:03	05:37:08
219	SAHK31	VHHH	180600		06:06:36	06:07:14	06:07:17
220	SAHK31	VHHH	180630		06:36:12	06:36:34	06:36:36
221	SAHK31	VHHH	180700		07:06:12	07:06:29	07:06:32
222	SAHK31	VHHH	180700	CCA	07:14:04	07:14:21	07:14:22
223	SAHK31	VHHH	180700	CCB	07:50:24	07:50:42	07:50:44
224	SAHK31	VHHH	180700	CCC	07:52:04	07:52:22	07:52:24
225	SAHK31	VHHH	180730		07:36:12	07:36:29	07:36:31
226	SAID31	WIII	180130		01:59:37	01:59:58	02:00:01
227	SAID31	WIII	180130		01:59:44	02:00:02	02:00:04
228	SAID31	WIII	180130		01:59:47	02:00:04	02:00:06
229	SAID31	WIII	180130		01:59:52	02:00:07	02:00:09
230	SAID31	WIII	180130		02:00:02	02:00:51	02:00:53
231	SAID31	WIII	180130		02:00:04	02:02:04	02:02:05
232	SAID31	WIII	180130		02:00:09	02:02:30	02:02:31
233	SAID31	WIII	180200		02:07:38	02:08:19	02:08:22
234	SAID31	WIII	180200		02:29:59	02:30:04	02:30:07
235	SAID31	WIII	180200		02:30:14	02:30:13	02:30:14
236	SAID31	WIII	180200		02:30:18	02:30:15	02:30:17
237	SAID31	WIII	180200		02:30:27	02:30:25	02:30:27
238	SAID31	WIII	180200		02:30:44	02:30:42	02:30:44
239	SAID31	WIII	180200		02:31:02	02:31:00	02:31:02
240	SAID31	WIII	180200		02:31:15	02:31:12	02:31:14
241	SAID31	WIII	180230		02:37:38	02:37:43	02:37:45
242	SAID31	WIII	180230		02:39:34	02:40:01	02:40:03
243	SAID31	WIII	180300		03:07:41	03:07:54	03:07:56
244	SAID31	WIII	180330		03:37:41	03:37:54	03:37:56
245	SAID31	WIII	180400		04:07:37	04:07:55	04:07:57
246	SAID31	WIII	180430		04:37:51	04:38:06	04:38:09
247	SAID31	WIII	180430		04:50:58	04:50:56	04:50:58
248	SAID31	WIII	180500		05:08:01	05:08:08	05:08:10
249	SAID31	WIII	180530		05:38:15	05:38:24	05:38:27
250	SAID31	WIII	180600		06:08:26	06:08:41	06:08:44
251	SAID31	WIII	180630		06:38:36	06:38:49	06:38:52
252	SAID31	WIII	180630		06:40:08	06:40:18	06:40:19

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253	SAID31	WIII	180700		07:08:47	07:09:01	07:09:03
254	SAID31	WIII	180730		07:38:58	07:39:11	07:39:14
255	SAID32	WIII	180130		01:48:33	01:52:48	01:52:50
256	SAID32	WIII	180130		01:59:37	02:00:09	02:00:11
257	SAID32	WIII	180130		01:59:44	02:00:11	02:00:13
258	SAID32	WIII	180130		01:59:52	02:00:14	02:00:16
259	SAID32	WIII	180130		01:59:53	02:00:53	02:00:55
260	SAID32	WIII	180130		01:59:56	02:00:55	02:00:59
261	SAID32	WIII	180130		02:00:00	02:01:03	02:01:04
262	SAID32	WIII	180130		02:00:03	02:01:05	02:01:07
263	SAID32	WIII	180200		02:07:43	02:08:26	02:08:29
264	SAID32	WIII	180200		02:30:33	02:30:31	02:30:33
265	SAID32	WIII	180200		02:30:36	02:30:33	02:30:35
266	SAID32	WIII	180200		02:30:48	02:30:44	02:30:46
267	SAID32	WIII	180200		02:30:54	02:30:54	02:30:57
268	SAID32	WIII	180200		02:31:09	02:31:07	02:31:09
269	SAID32	WIII	180200		02:31:22	02:31:19	02:31:21
270	SAID32	WIII	180230		02:37:47	02:37:56	02:37:59
271	SAID32	WIII	180300		03:07:45	03:08:26	03:08:29
272	SAID32	WIII	180330		03:37:47	03:38:00	03:38:02
273	SAID32	WIII	180400		04:07:44	04:08:01	04:08:03
274	SAID32	WIII	180430		04:37:56	04:38:12	04:38:15
275	SAID32	WIII	180500		05:08:08	05:08:33	05:08:35
276	SAID32	WIII	180530		05:38:19	05:38:32	05:38:35
277	SAID32	WIII	180600		06:08:34	06:08:51	06:08:54
278	SAID32	WIII	180600		06:10:36	06:10:49	06:10:51
279	SAID32	WIII	180600		06:12:18	06:12:32	06:12:34
280	SAID32	WIII	180630		06:38:45	06:38:53	06:38:56
281	SAID32	WIII	180700		07:08:57	07:09:07	07:09:09
282	SAID32	WIII	180730		07:39:05	07:39:17	07:39:20
283	SAID32	WIII	180730		07:55:39	07:55:52	07:55:54
284	SAID33	WIII	180130		01:37:41	02:00:25	02:00:27
285	SAID33	WIII	180200		02:07:41	02:08:23	02:08:25
286	SAID33	WIII	180200		02:30:43	02:30:36	02:30:40
287	SAID33	WIII	180200		02:30:52	02:30:49	02:30:51
288	SAID33	WIII	180200		02:31:12	02:31:09	02:31:11
289	SAID33	WIII	180200		02:31:15	02:31:13	02:31:15
290	SAID33	WIII	180200		02:31:17	02:31:15	02:31:17
291	SAID33	WIII	180200		02:31:28	02:31:26	02:31:27
292	SAID33	WIII	180200		02:31:35	02:31:32	02:31:34
293	SAID33	WIII	180200		02:31:37	02:31:34	02:31:36
294	SAID33	WIII	180230		02:37:43	02:37:53	02:37:55
295	SAID33	WIII	180300		03:07:43	03:08:05	03:08:07

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296	SAID33	WIII	180330		03:37:45	03:37:57	03:37:59
297	SAID33	WIII	180400		04:07:40	04:07:58	04:08:00
298	SAID33	WIII	180430		04:37:53	04:38:09	04:38:12
299	SAID33	WIII	180500		05:08:06	05:08:26	05:08:28
300	SAID33	WIII	180530		05:38:17	05:38:28	05:38:31
301	SAID33	WIII	180600		06:08:30	06:08:45	06:08:48
302	SAID33	WIII	180630		06:38:41	06:40:05	06:40:06
303	SAID33	WIII	180700		07:08:53	07:09:04	07:09:06
304	SAID33	WIII	180730		07:39:00	07:39:14	07:39:17
305	SAIN31	VABB	180400	RRB	05:56:27	05:56:39	05:56:41
306	SAIN31	VABB	180400	RRC	05:56:53	05:57:01	05:57:03
307	SAIN31	VABB	180430	RRC	05:12:33	05:12:49	05:12:51
308	SAIN31	VABB	180430	RRD	05:59:49	06:00:08	06:00:10
309	SAIN31	VABB	180430	CCA	05:59:51	06:00:11	06:00:13
310	SAIN31	VABB	180430	RRE	05:59:53	06:00:13	06:00:15
311	SAIN31	VABB	180500	RRC	05:15:35	05:15:49	05:15:51
312	SAIN31	VABB	180500	RRD	05:15:49	05:15:59	05:16:02
313	SAIN31	VABB	180530		05:39:51	05:40:08	05:40:11
314	SAIN31	VABB	180600		06:05:51	06:06:24	06:06:27
315	SAIN31	VABB	180600	RRA	06:06:22	06:07:07	06:07:09
316	SAIN31	VABB	180630		06:35:48	06:35:50	06:35:53
317	SAIN31	VABB	180700		07:05:51	07:06:04	07:06:07
318	SAIN31	VABB	180730		07:35:52	07:36:09	07:36:12
319	SAIN32	VIDP	180200		02:05:51	02:06:33	02:06:35
320	SAIN32	VIDP	180200	RRA	02:15:46	02:15:52	02:15:54
321	SAIN32	VIDP	180230		02:35:38	02:35:51	02:35:53
322	SAIN32	VIDP	180300		03:05:40	03:06:08	03:06:10
323	SAIN32	VIDP	180300	RRA	03:10:39	03:10:54	03:10:55
324	SAIN32	VIDP	180330		03:35:49	03:36:04	03:36:07
325	SAIN32	VIDP	180400		04:05:45	04:05:55	04:05:57
326	SAIN32	VIDP	180430		04:35:52	04:36:06	04:36:08
327	SAIN32	VIDP	180430	RRA	04:40:37	04:40:56	04:40:58
328	SAIN32	VIDP	180500		05:05:48	05:06:17	05:06:19
329	SAIN32	VIDP	180500	CCA	05:14:43	05:14:52	05:14:54
330	SAIN32	VIDP	180530		05:35:42	05:36:22	05:36:25
331	SAIN32	VIDP	180530	RRA	05:40:51	05:41:08	05:41:10
332	SAIN32	VIDP	180600		06:06:06	06:06:35	06:06:37
333	SAIN32	VIDP	180630		06:35:50	06:36:09	06:36:11
334	SAIN32	VIDP	180630	RRA	06:40:43	06:40:51	06:40:53
335	SAIN32	VIDP	180630	RRB	06:45:49	06:46:00	06:46:01
336	SAIN32	VIDP	180700		07:05:38	07:05:59	07:06:01
337	SAIN32	VIDP	180730		07:35:56	07:36:18	07:36:21
338	SAIR31	OIII	180200		02:03:06	02:03:40	02:03:43

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339	SAIR31	OIII	180200		02:03:43	02:04:06	02:04:09
340	SAIR31	OIII	180200	RRA	02:19:49	02:19:52	02:19:54
341	SAIR31	OIII	180200	RRA	02:19:55	02:20:02	02:20:04
342	SAIR31	OIII	180200	RRB	03:15:55	03:16:14	03:16:15
343	SAIR31	OIII	180200	RRB	03:16:05	03:16:15	03:16:17
344	SAIR31	OIII	180230		02:33:06	02:33:13	02:33:15
345	SAIR31	OIII	180230		02:33:16	02:33:23	02:33:26
346	SAIR31	OIII	180300		03:03:11	03:03:26	03:03:28
347	SAIR31	OIII	180300		03:03:29	03:03:30	03:03:34
348	SAIR31	OIII	180330		03:33:03	03:33:19	03:33:21
349	SAIR31	OIII	180330		03:33:21	03:33:46	03:33:49
350	SAIR31	OIII	180330	RRA	03:40:29	03:40:44	03:40:46
351	SAIR31	OIII	180330	RRA	03:40:37	03:40:48	03:40:49
352	SAIR31	OIII	180400		04:03:03	04:03:34	04:03:36
353	SAIR31	OIII	180400		04:03:36	04:04:00	04:04:03
354	SAIR31	OIII	180430		04:33:04	04:33:24	04:33:26
355	SAIR31	OIII	180430		04:33:26	04:33:39	04:33:42
356	SAIR31	OIII	180500		05:03:07	05:03:24	05:03:27
357	SAIR31	OIII	180500		05:03:27	05:03:49	05:03:52
358	SAIR31	OIII	180530		05:33:07	05:33:20	05:33:22
359	SAIR31	OIII	180530		05:33:33	05:33:51	05:33:54
360	SAIR31	OIII	180600		06:03:05	06:03:36	06:03:38
361	SAIR31	OIII	180600		06:03:38	06:03:59	06:04:02
362	SAIR31	OIII	180600	RRA	06:04:27	06:04:40	06:04:42
363	SAIR31	OIII	180600	RRA	06:04:42	06:04:51	06:04:53
364	SAIR31	OIII	180600	RRB	06:06:17	06:07:02	06:07:04
365	SAIR31	OIII	180600	RRB	06:06:27	06:07:04	06:07:06
366	SAIR31	OIII	180630		06:33:08	06:33:22	06:33:24
367	SAIR31	OIII	180630		06:33:27	06:33:42	06:33:45
368	SAIR31	OIII	180700		07:03:02	07:03:34	07:03:37
369	SAIR31	OIII	180700		07:03:38	07:03:58	07:04:01
370	SAIR31	OIII	180730		07:33:02	07:33:29	07:33:32
371	SAIR31	OIII	180730		07:33:32	07:33:43	07:33:46
372	SAJP31	RJTD	180200		02:06:44	02:08:03	02:08:05
373	SAJP31	RJTD	180300		03:06:43	03:06:57	03:06:59
374	SAJP31	RJTD	180400		04:06:44	04:07:02	04:07:04
375	SAJP31	RJTD	180500		05:06:43	05:07:17	05:07:19
376	SAJP31	RJTD	180600		06:06:44	06:07:19	06:07:22
377	SAJP31	RJTD	180700		07:06:44	07:07:06	07:07:08
378	SAJP32	RJTD	180200		02:06:44	02:08:06	02:08:08
379	SAJP32	RJTD	180200	RRA	02:06:45	02:08:09	02:08:11
380	SAJP32	RJTD	180300		03:06:44	03:07:00	03:07:03
381	SAJP32	RJTD	180300	RRA	03:06:45	03:07:04	03:07:06

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382	SAJP32	RJTD	180400		04:06:45	04:07:05	04:07:08
383	SAJP32	RJTD	180400	RRA	04:06:45	04:07:08	04:07:10
384	SAJP32	RJTD	180500		05:06:45	05:07:20	05:07:23
385	SAJP32	RJTD	180500	RRA	05:06:45	05:07:24	05:07:26
386	SAJP32	RJTD	180600		06:06:45	06:07:22	06:07:25
387	SAJP32	RJTD	180600	RRA	06:06:45	06:07:26	06:07:28
388	SAJP32	RJTD	180700	RRA	07:06:45	07:07:11	07:07:13
389	SAJP32	RJTD	180700		07:06:44	07:07:14	07:07:16
390	SAJP38	RJTD	180200		02:06:45	02:08:12	02:08:14
391	SAJP38	RJTD	180200	RRA	02:06:46	02:08:15	02:08:17
392	SAJP38	RJTD	180300		03:06:45	03:07:06	03:07:09
393	SAJP38	RJTD	180300	RRA	03:06:46	03:07:10	03:07:12
394	SAJP38	RJTD	180400		04:06:45	04:07:11	04:07:13
395	SAJP38	RJTD	180400	RRA	04:06:46	04:07:14	04:07:16
396	SAJP38	RJTD	180500		05:06:46	05:07:26	05:07:29
397	SAJP38	RJTD	180500	RRA	05:06:46	05:07:30	05:07:33
398	SAJP38	RJTD	180600		06:06:46	06:07:29	06:07:31
399	SAJP38	RJTD	180600	RRA	06:06:46	06:07:32	06:07:35
400	SAJP38	RJTD	180700		07:06:45	07:07:17	07:07:20
401	SAJP38	RJTD	180700	RRA	07:06:46	07:07:21	07:07:23
402	SAKO31	RKSI	180200		02:05:30	02:06:00	02:06:02
403	SAKO31	RKSI	180230		02:35:22	02:35:24	02:35:26
404	SAKO31	RKSI	180300		03:05:18	03:05:47	03:05:49
405	SAKO31	RKSI	180330		03:35:11	03:35:36	03:35:37
406	SAKO31	RKSI	180400		04:05:26	04:05:52	04:05:54
407	SAKO31	RKSI	180430		04:35:21	04:35:41	04:35:42
408	SAKO31	RKSI	180500		05:05:26	05:06:09	05:06:12
409	SAKO31	RKSI	180530		05:35:21	05:35:57	05:35:59
410	SAKO31	RKSI	180600		06:05:11	06:05:54	06:05:57
411	SAKO31	RKSI	180630		06:35:23	06:35:48	06:35:49
412	SAKO31	RKSI	180700		07:05:15	07:05:44	07:05:46
413	SAKO31	RKSI	180730		07:35:20	07:35:31	07:35:33
414	SAKO31	RKSI	180800		08:05:11	08:05:53	08:05:55
415	SAMS31	WMKK	180200		02:08:07	02:08:36	02:08:39
416	SAMS31	WMKK	180230		02:38:02	02:38:03	02:38:05
417	SAMS31	WMKK	180300		03:08:03	03:08:34	03:08:37
418	SAMS31	WMKK	180300	CCA	03:40:05	03:40:17	03:40:19
419	SAMS31	WMKK	180330		03:38:05	03:38:14	03:38:17
420	SAMS31	WMKK	180330	CCA	04:02:03	04:02:15	04:02:17
421	SAMS31	WMKK	180400		04:08:06	04:08:07	04:08:09
422	SAMS31	WMKK	180430		04:38:03	04:38:15	04:38:18
423	SAMS31	WMKK	180500		05:08:03	05:08:11	05:08:13
424	SAMS31	WMKK	180500	RRA	05:12:03	05:12:17	05:12:19

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425	SAMS31	WMKK	180500	CCA	05:28:05	05:28:11	05:28:13
426	SAMS31	WMKK	180530		05:38:01	05:38:18	05:38:21
427	SAMS31	WMKK	180600		06:08:08	06:08:19	06:08:21
428	SAMS31	WMKK	180630		06:38:04	06:38:19	06:38:22
429	SAMS31	WMKK	180700		07:08:04	07:08:13	07:08:15
430	SAMS31	WMKK	180730		07:38:03	07:38:21	07:38:24
431	SAMS38	WMKK	180200		02:08:07	02:08:43	02:08:45
432	SAMS38	WMKK	180300		03:08:08	03:08:41	03:08:44
433	SAMS38	WMKK	180400		04:08:06	04:08:13	04:08:16
434	SAMS38	WMKK	180500		05:08:04	05:08:18	05:08:21
435	SAMS38	WMKK	180600		06:08:08	06:08:25	06:08:28
436	SAMS38	WMKK	180700		07:08:05	07:08:19	07:08:21
437	SANG31	YBBN	180200		02:05:05	02:05:23	02:05:26
438	SANG31	YBBN	180200	RRA	02:15:05	02:15:23	02:15:25
439	SANG31	YBBN	180300		03:05:03	03:05:37	03:05:40
440	SANG31	YBBN	180300	RRA	03:15:04	03:15:30	03:15:31
441	SANG31	YBBN	180400		04:05:02	04:05:26	04:05:28
442	SANG31	YBBN	180400	RRA	04:15:04	04:15:29	04:15:32
443	SANG31	YBBN	180500		05:05:03	05:05:18	05:05:21
444	SANG31	YBBN	180500		05:05:22	05:05:43	05:05:47
445	SANG31	YBBN	180500	RRA	05:15:07	05:15:21	05:15:23
446	SANG31	YBBN	180600		06:05:06	06:05:40	06:05:43
447	SANG31	YBBN	180600	RRA	06:15:01	06:15:22	06:15:24
448	SANG31	YBBN	180700		07:05:02	07:05:35	07:05:38
449	SANG31	YBBN	180700	RRA	07:15:05	07:15:35	07:15:37
450	SANG31	YBBN	180800		08:05:05	08:05:37	08:05:40
451	SANZ31	NZKL	180200		02:04:19	02:04:44	02:04:46
452	SANZ31	NZKL	180230		02:34:11	02:34:24	02:34:26
453	SANZ31	NZKL	180300		03:04:13	03:04:26	03:04:28
454	SANZ31	NZKL	180330		03:34:22	03:34:28	03:34:30
455	SANZ31	NZKL	180400		04:04:02	04:04:30	04:04:32
456	SANZ31	NZKL	180430		04:34:11	04:34:29	04:34:31
457	SANZ31	NZKL	180500		05:04:18	05:04:37	05:04:39
458	SANZ31	NZKL	180530		05:34:25	05:34:40	05:34:42
459	SANZ31	NZKL	180600		06:04:29	06:04:46	06:04:49
460	SANZ31	NZKL	180630		06:34:14	06:34:33	06:34:35
461	SANZ31	NZKL	180700		07:04:08	07:04:36	07:04:39
462	SANZ31	NZKL	180730		07:34:16	07:34:33	07:34:35
463	SANZ31	NZKL	180800		08:04:22	08:04:30	08:04:32
464	SANZ32	NZKL	180200		02:04:18	02:04:41	02:04:43
465	SANZ32	NZKL	180230		02:34:11	02:34:28	02:34:30
466	SANZ32	NZKL	180300		03:04:13	03:04:29	03:04:31
467	SANZ32	NZKL	180330		03:34:22	03:34:27	03:34:28

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468	SANZ32	NZKL	180400		04:04:01	04:04:28	04:04:29
469	SANZ32	NZKL	180430		04:34:10	04:34:26	04:34:27
470	SANZ32	NZKL	180500		05:04:17	05:04:35	05:04:37
471	SANZ32	NZKL	180530		05:34:26	05:34:43	05:34:45
472	SANZ32	NZKL	180600		06:04:28	06:04:42	06:04:44
473	SANZ32	NZKL	180630		06:34:14	06:34:31	06:34:32
474	SANZ32	NZKL	180700		07:04:08	07:04:35	07:04:36
475	SANZ32	NZKL	180730		07:34:16	07:34:31	07:34:33
476	SANZ32	NZKL	180800		08:04:22	08:04:32	08:04:34
477	SAPK31	OPKC	180200		02:01:47	02:01:55	02:01:58
478	SAPK31	OPKC	180230		02:30:32	02:30:46	02:30:49
479	SAPK31	OPKC	180230	RRA	02:36:28	02:36:24	02:36:26
480	SAPK31	OPKC	180300		03:12:21	03:12:34	03:12:36
481	SAPK31	OPKC	180330		03:30:21	03:32:55	03:32:58
482	SAPK31	OPKC	180355		03:56:16	04:02:36	04:02:38
483	SAPK31	OPKC	180355	RRA	04:04:40	04:04:49	04:04:51
484	SAPK31	OPKC	180430		04:32:00	04:50:16	04:50:18
485	SAPK31	OPKC	180500		05:01:43	05:03:08	05:03:09
486	SAPK31	OPKC	180530		05:35:56	05:36:26	05:36:30
487	SAPK31	OPKC	180600		06:04:16	06:04:37	06:04:39
488	SAPK31	OPKC	180630		06:32:16	06:32:30	06:32:32
489	SAPK31	OPKC	180700		07:00:14	07:00:10	07:00:12
490	SAPK31	OPKC	180730		07:34:54	07:35:03	07:35:05
491	SAPS31	NFFN	180200		02:15:10	02:15:35	02:15:38
492	SAPS31	NFFN	180300		03:15:10	03:15:38	03:15:41
493	SAPS31	NFFN	180400		04:15:06	04:15:32	04:15:35
494	SAPS31	NFFN	180500		05:15:12	05:15:33	05:15:35
495	SAPS31	NFFN	180600		06:15:08	06:15:41	06:15:44
496	SAPS31	NFFN	180700		07:15:09	07:15:37	07:15:40
497	SAPS32	NFFN	180200		02:03:39	02:04:31	02:04:33
498	SAPS32	NFFN	180300		03:04:15	03:04:35	03:04:38
499	SAPS32	NFFN	180400		04:03:41	04:04:25	04:04:26
500	SAPS32	NFFN	180500		05:03:57	05:04:29	05:04:31
501	SAPS32	NFFN	180600		06:03:48	06:04:32	06:04:34
502	SAPS32	NFFN	180700		07:03:34	07:04:28	07:04:30
503	SAPS32	NFFN	180800		08:03:00	08:03:14	08:03:16
504	SAPS33	NFFN	180200		02:03:29	02:04:27	02:04:29
505	SAPS33	NFFN	180300		03:03:30	03:04:19	03:04:21
506	SAPS33	NFFN	180400		04:03:31	04:04:22	04:04:23
507	SAPS33	NFFN	180500		05:03:22	05:04:17	05:04:19
508	SAPS33	NFFN	180600		06:03:18	06:04:22	06:04:24
509	SAPS33	NFFN	180700		07:03:14	07:04:19	07:04:21
510	SAPS33	NFFN	180800		08:03:20	08:04:28	08:04:29

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511	SASB31	VCCC	180200		02:05:46	02:05:38	02:05:40
512	SASB31	VCCC	180210		02:09:41	02:09:38	02:09:40
513	SASB31	VCCC	180210		02:21:02	02:21:12	02:21:14
514	SASB31	VCCC	180300		03:06:51	03:06:49	03:06:51
515	SASB31	VCCC	180310		03:11:34	03:11:31	03:11:33
516	SASB31	VCCC	180310		03:20:47	03:21:04	03:21:06
517	SASB31	VCCC	180400		04:48:55	04:48:52	04:48:54
518	SASB31	VCCC	180410		04:20:34	04:20:46	04:20:47
519	SASB31	VCCC	180500		05:11:34	05:11:32	05:11:33
520	SASB31	VCCC	180510		05:28:53	05:29:07	05:29:10
521	SASB31	VCCC	180600		06:03:49	06:03:46	06:03:48
522	SASB31	VCCC	180610		06:20:04	06:20:19	06:20:21
523	SASB31	VCCC	180700		07:09:15	07:09:13	07:09:14
524	SASB31	VCCC	180710		07:20:51	07:21:11	07:21:13
525	SASD31	OEJD	180200		02:00:10	02:00:30	02:00:33
526	SASD31	OEJD	180300		03:00:10	03:00:25	03:00:28
527	SASD31	OEJD	180400		04:00:11	04:00:39	04:00:41
528	SASD31	OEJD	180500		05:00:12	05:00:28	05:00:30
529	SASD31	OEJD	180600		06:00:15	06:00:45	06:00:49
530	SASD31	OEJD	180700		07:00:13	07:00:32	07:00:37
531	SASD31	OEJD	180700	CCA	07:20:12	07:20:23	07:20:24
532	SASD31	OEJD	180800		08:00:14	08:00:26	08:00:29
533	SATH31	VTBB	180200	RRA	02:06:06	02:06:02	02:06:06
534	SATH31	VTBB	180200		02:05:18	02:05:14	02:05:18
535	SATH31	VTBB	180300		03:05:19	03:05:15	03:05:19
536	SATH31	VTBB	180400		04:05:17	04:05:13	04:05:17
537	SATH31	VTBB	180500		05:05:18	05:05:14	05:05:18
538	SATH31	VTBB	180600		06:05:25	06:05:20	06:05:25
539	SATH31	VTBB	180700	RRA	07:07:04	07:07:00	07:07:04
540	SATH31	VTBB	180700		07:05:17	07:05:15	07:05:17
541	SATH31	VTBB	180800		08:05:20	08:05:14	08:05:19
542	SATH32	VTBB	180200		02:05:22	02:05:21	02:05:22
543	SATH32	VTBB	180300		03:05:19	03:05:20	03:05:23
544	SATH32	VTBB	180400		04:05:21	04:05:19	04:05:21
545	SATH32	VTBB	180500		05:05:22	05:05:20	05:05:22
546	SATH32	VTBB	180600		06:05:31	06:05:30	06:05:31
547	SATH32	VTBB	180700		07:05:21	07:05:20	07:05:21
548	SATH32	VTBB	180800		08:05:23	08:05:20	08:05:23
549	SATH33	VTBB	180200	RRA	02:07:45	02:07:40	02:07:45
550	SATH33	VTBB	180200		02:05:25	02:05:20	02:05:25
551	SATH33	VTBB	180300		03:05:28	03:05:25	03:05:27
552	SATH33	VTBB	180400		04:05:25	04:05:20	04:05:25
553	SATH33	VTBB	180500		05:05:26	05:05:23	05:05:26

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554	SATH33	VTBB	180600		06:05:36	06:05:30	06:05:36
555	SATH33	VTBB	180700		07:05:25	07:05:20	07:05:25
556	SATH33	VTBB	180800		08:05:28	08:05:22	08:05:27

TAF Bulletins							
					Recorded by	Recorded by	Recorded by
					WSSS RODB RX Time UTC	VTBB RODB RX Time UTC	VTBB RODB TX Time UTC
No.	TTAAii	CCCC	YYGGgg	BBB	(hh:mm)	(hh:mm)	(hh:mm)
1	FTAE31	VTBB	180500		05:35:04	05:35:00	05:35:03
2	FTAE32	VTBB	180500		05:35:11	05:35:00	05:35:09
3	FTAE33	VTBB	180500		05:35:13	05:35:10	05:35:13
4	FTAE34	VTBB	180500	AAC	07:26:07	07:26:00	07:26:06
5	FTAE34	VTBB	180500	AAB	06:53:29	06:53:20	06:53:25
6	FTAE34	VTBB	180500	AAA	06:01:34	06:01:30	06:01:33
7	FTAE34	VTBB	180500		05:35:17	05:35:13	05:35:18
8	FTAE34	VTBB	172300	AAB	04:03:20	04:03:15	04:03:20
9	FTAE34	VTBB	172300	AAA	03:56:37	03:56:33	03:56:36
10	FTAU31	YBBN	180300		03:32:23	03:32:50	03:32:51
11	FTAU31	YBBN	180300		03:36:13	03:36:27	03:36:29
12	FTAU31	YBBN	180300	RRA	03:40:03	03:40:14	03:40:17
13	FTAU31	YBBN	180300		03:48:48	03:49:05	03:49:06
14	FTAU31	YBBN	180500	RRA	05:50:03	05:50:18	05:50:20
15	FTAU31	YBBN	180500		05:50:03	05:50:21	05:50:23
16	FTAU31	YBBN	180800		08:04:44	08:04:53	08:04:54
17	FTAU32	YBBN	180500		05:15:44	05:15:53	05:15:56
18	FTAU32	YBBN	180500		05:24:31	05:24:47	05:24:49
19	FTAU32	YBBN	180500		05:33:43	05:34:10	05:34:12
20	FTAU32	YBBN	180500		05:35:06	05:35:38	05:35:41
21	FTAU32	YBBN	180500	RRA	05:35:06	05:35:42	05:35:44
22	FTAU33	YBBN	180500		05:09:06	05:09:17	05:09:19
23	FTAU33	YBBN	180500		05:29:33	05:29:48	05:29:49
24	FTAU33	YBBN	180500		05:35:04	05:35:18	05:35:21
25	FTAU33	YBBN	180500	RRA	05:45:04	05:45:19	05:45:21
26	FTAU34	YBBN	180500	RRA	05:10:01	05:10:08	05:10:09
27	FTAU34	YBBN	180500	RRA	05:20:02	05:20:18	05:20:19
28	FTAU35	YBBN	180300		03:31:36	03:31:56	03:31:58
29	FTAU35	YBBN	180300		03:39:32	03:39:44	03:39:46
30	FTAU35	YBBN	180700		07:00:02	07:00:16	07:00:18
31	FTAU35	YBBN	180700	RRA	07:10:03	07:10:24	07:10:26
32	FTAU35	YBBN	180700	RRA	07:20:05	07:20:21	07:20:22
33	FTAU36	YBBN	180200		02:35:01	02:35:14	02:35:16

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34	FTAU36	YBBN	180300		03:32:18	03:32:15	03:32:17
35	FTAU36	YBBN	180300		03:32:02	03:33:09	03:33:10
36	FTAU36	YBBN	180400		04:08:33	04:08:37	04:08:39
37	FTAU36	YBBN	180500		05:04:36	05:04:44	05:04:46
38	FTAU36	YBBN	180500		05:35:05	05:35:33	05:35:35
39	FTAU36	YBBN	180500	RRA	05:45:04	05:45:22	05:45:24
40	FTAU36	YBBN	180600		06:09:22	06:09:39	06:09:41
41	FTBN31	OBBI	180500		05:01:39	05:01:37	05:01:39
42	FTBN31	OBBI	180500		05:01:45	05:01:43	05:01:44
43	FTCI31	ZBBB	180400		04:01:13	04:00:26	04:00:29
44	FTCI31	ZBBB	180450	RRA	04:50:56	04:51:06	04:51:08
45	FTCI31	ZBBB	180456	RRB	04:56:07	04:57:27	04:57:28
46	FTCI32	ZBBB	180400		04:01:13	04:01:35	04:01:38
47	FTCI32	ZBBB	180454	RRA	04:56:05	04:55:58	04:56:00
48	FTCI32	ZBBB	180501	RRB	05:01:05	05:01:23	05:01:25
49	FTCI41	ZBBB	180400		04:01:14	04:01:39	04:01:42
50	FTHK31	VHHH	180200		02:01:37	02:01:52	02:01:54
51	FTHK31	VHHH	180500		05:01:31	05:01:47	05:01:49
52	FTHK31	VHHH	180800		08:02:37	08:02:52	08:02:54
53	FTHK32	VHHH	180500		05:25:15	05:25:39	05:25:43
54	FTHK33	VHHH	180500		05:25:14	05:25:36	05:25:38
55	FTHK33	VHHH	180500	AAA	06:08:32	06:08:48	06:08:51
56	FTIN31	VABB	180500		05:39:41	05:40:26	05:40:27
57	FTIN31	VABB	180500		05:39:42	05:40:36	05:40:38
58	FTIN31	VABB	180500	RRA	05:45:59	05:46:18	05:46:20
59	FTIN31	VABB	180500	RRA	05:45:59	05:46:20	05:46:23
60	FTIN32	VABB	180500		05:39:46	05:40:47	05:40:49
61	FTIN32	VABB	180500		05:39:48	05:41:00	05:41:02
62	FTIR31	OIII	180500	RRA	05:41:30	05:41:38	05:41:40
63	FTIR31	OIII	180500	RRA	05:41:40	05:41:58	05:42:01
64	FTIR32	OIII	180500	RRA	05:42:17	05:42:24	05:42:26
65	FTIR32	OIII	180500	RRA	05:42:26	05:42:40	05:42:42
66	FTIR32	OIII	180500	RRA	05:42:42	05:44:18	05:44:21
67	FTIR33	OIII	180500	RRA	05:42:17	05:42:22	05:42:24
68	FTIR33	OIII	180500	RRA	05:42:21	05:42:42	05:42:44
69	FTIR34	OIII	180500	RRA	05:42:49	05:43:08	05:43:10
70	FTJP31	RJTD	180500	RRA	05:27:33	05:27:47	05:27:49
71	FTJP31	RJTD	180500		05:27:31	05:27:53	05:27:55
72	FTJP32	RJTD	180500		05:27:34	05:27:50	05:27:52
73	FTJP32	RJTD	180500	RRA	05:27:35	05:27:56	05:27:58
74	FTJP32	RJTD	180500	AAA	07:44:47	07:45:01	07:45:03

75	FTJP38	RJTD	180500	RRA	05:27:36	05:27:58	05:28:01
76	FTJP38	RJTD	180500		05:27:36	05:28:02	05:28:04

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77	FTJP38	RJTD	180500	RRB	05:27:36	05:28:05	05:28:07
78	FTJP38	RJTD	180500	AAA	06:10:56	06:11:09	06:11:11
79	FTJP38	RJTD	180500	AAB	06:36:34	06:36:41	06:36:43
80	FTJP38	RJTD	180500	AAC	07:24:50	07:25:01	07:25:03
81	FTKO31	RKSI	180500	RRA	05:06:14	05:06:38	05:06:40
82	FTKO31	RKSI	180500		05:06:25	05:07:10	05:07:12
83	FTKO31	RKSI	180626	AAA	06:28:41	06:28:50	06:28:52
84	FTNG31	YBBN	180200	RRA	02:25:02	02:25:02	02:25:05
85	FTNG31	YBBN	180500	RRA	05:35:07	05:35:45	05:35:47
86	FTNZ31	NZKL	180200		02:05:22	02:05:42	02:05:44
87	FTNZ31	NZKL	180200		02:05:22	02:05:53	02:05:55
88	FTNZ31	NZKL	180500		05:45:21	05:45:32	05:45:34
89	FTNZ31	NZKL	180500		05:45:22	05:45:48	05:45:50
90	FTPK31	OPKC	180500		05:33:11	05:33:41	05:33:43
91	FTPS31	NFFN	180500		05:26:33	05:26:47	05:26:51
92	FTPS32	NFFN	180500		05:20:57	05:21:17	05:21:20
93	FTPS33	NFFN	180500		05:16:22	05:16:38	05:16:39
94	FTSD31	OEJD	180500		05:30:05	05:30:27	05:30:30
95	FTSR31	WSSS	180500		05:07:34	05:07:57	05:08:00
96	FTSR31	WSSS	180500	AAA	08:00:30	08:00:37	08:00:39
97	FTSR32	WSSS	172300	AAA	04:06:06	04:06:47	04:06:49
98	FTSR32	WSSS	180500		05:08:32	05:08:57	05:09:00
99	FTSR32	WSSS	180500	AAA	06:08:16	06:08:39	06:08:41
100	FTSR33	WSSS	180500		05:09:29	05:09:38	05:09:42
101	FTTH31	VTBB	180500		05:35:22	05:35:20	05:35:23
102	FTTH32	VTBB	180500		05:35:27	05:35:25	05:35:27
103	FTTH33	VTBB	180500		05:35:31	05:35:30	05:35:31
104	FTTM31	YBBN	180500		05:35:06	05:35:36	05:35:38