



**FIFTEENTH MEETING OF THE ASIA/PACIFIC METEOROLOGICAL INFORMATION EXCHANGE WORKING GROUP  
(MET/IE WG/15)**

Bangkok, Thailand, 20 – 22 March 2017

**Agenda Item C2: SIGMET tests**

**REVIEW OF SIGMET MONITORING – WC and WV**

(Presented by Japan)

**SUMMARY**

This paper presents the results of the ASIA/PAC SIGMET monitoring for TC and VA SIGMET conducted in July 2016.

**1. INTRODUCTION**

1.1 The Sixth Meeting of the Asia/Pacific (APAC) Meteorological Services Working Group (MET/S WG/6) of the APAC Air Navigation Planning and Implementation Regional Group (APANPIRG) reviewed deficiencies in meteorological services and agreed to conduct SIGMET performance monitoring to assist with the validation of SIGMET-related deficiency and facilitate corrective action.

1.2 The meeting decided to organize and conduct targeted SIGMET performance monitoring for TC and VA SIGMET, by the ad-hoc group of Australia, Thailand, Singapore and Japan as a rapporteur with assistance from the Secretariat and MET/S WG chair.

**2. DISCUSSION**

2.1 RODB Bangkok, Singapore, Brisbane and Tokyo monitored the receipt of volcanic ash advisories (VAAs), tropical cyclone advisories (TCAs), SIGMET for volcanic ash (WV SIGMET) and tropical cyclone (WC SIGMET) for one-month period of July 2016.

**3. RESULTS AND ANALYSIS**

3.1. RODB Tokyo conducted analysis of the receipt of those bulletins above in each RODB. The combined results of monitoring during the period for TC and VA SIGMET are shown in the Appendix 1 and Appendix 2\*, respectively.

\*Note: Approximately 1,700 VA SIGMETs were received by RODBs during the whole monitoring period. In the Appendix 2, for reference, only the records during 3 days from 1 to 3 July 2016 are shown.

### 3.2 Summary of TCA and WC SIGMET

3.2.1 The total number of TCA and WC bulletins received in RODBs is shown in Table 1.

WMO header	All RODBs	WSSS	VTBB	YBBB	RJTD
<b>FK</b>	65	59	60	64	59
<b>WC</b>	125	106	101	32	105
<b>Total</b>	190	165	161	96	164

Table 1: Total number of TCA and WC bulletins received in RODBs in July 2016

3.2.2 The daily summary of TCA and WC bulletins received in RODBs is shown in Table 2.

Date	FK				WC			
	WSSS	VTBB	YBBB	RJTD	WSSS	VTBB	YBBB	RJTD
01/07/2016	0	0	0	0	1	1	0	1
02/07/2016	2	2	2	2	1	1	0	1
03/07/2016	4	4	4	4	6	1	0	1
04/07/2016	4	4	4	4	5	1	0	1
05/07/2016	4	4	4	4	7	2	0	2
06/07/2016	4	4	4	4	9	6	0	7
07/07/2016	5	6	5	5	13	14	0	18
08/07/2016	4	4	4	4	15	16	0	16
09/07/2016	2	2	2	2	4	6	0	6
10/07/2016	0	0	0	0	1	1	0	1
11/07/2016	0	0	0	0	1	1	0	1
12/07/2016	0	0	0	0	1	1	0	1
13/07/2016	0	0	0	0	1	1	0	1
14/07/2016	0	0	0	0	1	1	0	1
15/07/2016	0	0	0	0	1	1	0	1
16/07/2016	0	0	1	0	1	1	0	1
17/07/2016	0	0	0	0	1	1	0	1
18/07/2016	0	0	0	0	0	0	0	0
19/07/2016	0	0	0	0	1	1	0	1
20/07/2016	0	0	0	0	1	1	0	1
21/07/2016	0	0	0	0	1	1	0	1
22/07/2016	0	0	1	0	1	1	0	1
23/07/2016	4	4	4	4	2	2	1	2
24/07/2016	3	3	3	3	5	7	6	7
25/07/2016	2	2	2	2	2	1	0	2
26/07/2016	4	4	5	4	4	4	3	4
27/07/2016	4	4	5	4	7	9	8	9
28/07/2016	2	2	3	2	1	1	0	1
29/07/2016	3	3	3	3	2	1	0	2
30/07/2016	4	4	4	4	4	6	5	3
31/07/2016	4	4	4	4	6	10	9	10
<b>Total</b>	<b>59</b>	<b>60</b>	<b>64</b>	<b>59</b>	<b>106</b>	<b>101</b>	<b>32</b>	<b>105</b>

Table 2: Daily summary of TCA and WC bulletins received in RODBs in July 2016

## 3.2.3

Table 3 shows WC SIGMETs issued during the monitoring period.

State	MWO	TTAAii	CCCC	FIR	Origin	Total
UNITED STATES	HONOLULU	WCPA04	PHFO	KZAK	PHFOYMYX	16
CHINA	TAIBEI	WCCI31	RCTP	RCAA	RCTPYMYM	15
JAPAN	TOKYO	WCJP31	RJTD	RJJ	RJTDYPYX	10
PHILIPPINES	MANILA	WCPH31	RPLL	RPHI	RPLLYMYX	15
CHINA	HONG KONG	WCSS20	VHHH	VHHK	VHHHYMYX	1
VIET NAM	GIA LAM	WCVS31	VVGL	VVNB	VVGLYMYX	5

Table 3: WC SIGMETs issued in July 2016

3.2.4 WC SIGMETs from India (WCIN31 VIDP) were issued and received by RODB Bangkok, Singapore and Tokyo on 02 UTC almost every day but all bulletins included only ‘NIL’.

3.2.5 WCPH31, WCCI31, WCJP31, WCVS31, WCPH31 and WCSS20 were transmitted by Jeddah, Saudi Arabia (OEJDYMYX) with a priority ‘GG’ converted from the original priority ‘FF’. These bulletins were received in duplicate by RODB Bangkok, Brisbane and Tokyo.

3.2.6 WC SIGMETs from Honolulu (WCPA04 PHFO) were received only by RODB Singapore. RODB Tokyo received them only via the GTS.

### 3.3 Summary of VAA and WV SIGMET

3.3.1 The total number of VAA and WV bulletins received in RODBs is shown in Table 4.

WMO header	All RODBs	WSSS	VTBB	YBBB	RJTD
FV	862	510	486	838	819
WV	838	418	430	623	442
<b>Total</b>	<b>1700</b>	<b>928</b>	<b>916</b>	<b>1461</b>	<b>1261</b>

Table 4: Total number of VAA and WV bulletins received in RODBs in July 2016

3.3.2 The daily summary of VAA and WV bulletins received in RODBs is shown in Table 5.

Date	FV				WV			
	WSSS	VTBB	YBBB	RJTD	WSSS	VTBB	YBBB	RJTD
01/07/2016	18	18	24	24	12	11	19	12
02/07/2016	14	14	18	18	6	6	11	6
03/07/2016	16	16	26	26	11	17	18	20
04/07/2016	19	19	31	31	18	29	31	29
05/07/2016	23	23	31	31	25	45	50	45
06/07/2016	25	22	26	26	18	18	26	19
07/07/2016	39	33	37	37	37	50	58	50
08/07/2016	36	29	51	51	24	17	25	17
09/07/2016	21	20	36	36	12	4	11	4
10/07/2016	15	15	29	29	18	19	24	20
11/07/2016	9	9	19	19	12	6	17	6
12/07/2016	13	13	17	17	13	8	16	8
13/07/2016	16	16	18	18	16	16	24	16
14/07/2016	11	11	17	17	12	6	15	6
15/07/2016	11	11	30	30	8	0	7	0

16/07/2016	9	9	23	23	7	2	8	2
17/07/2016	11	11	27	27	7	4	9	4
18/07/2016	22	22	28	28	16	25	36	26
19/07/2016	18	18	30	30	18	14	27	14
20/07/2016	15	15	15	15	11	8	17	8
21/07/2016	15	15	21	21	8	1	8	2
22/07/2016	12	12	14	14	7	6	11	6
23/07/2016	13	13	35	35	13	15	20	16
24/07/2016	12	14	28	28	10	12	16	12
25/07/2016	14	14	38	38	10	19	24	20
26/07/2016	4	4	13	12	7	13	14	14
27/07/2016	17	15	15	15	14	14	18	16
28/07/2016	26	19	39	39	26	27	32	30
29/07/2016	12	12	46	46	8	8	12	8
30/07/2016	12	12	38	20	6	4	8	0
31/07/2016	12	12	18	18	8	6	11	6
<b>Total</b>	<b>510</b>	<b>486</b>	<b>838</b>	<b>819</b>	<b>418</b>	<b>430</b>	<b>623</b>	<b>442</b>

Table 5: Daily summary of VAA and WV bulletins received in RODBs in July 2016

## 3.3.3

Table 6 shows WV SIGMETs issued during the monitoring period.

State	MWO	TTAAii	CCCC	FIR	Origin	Total
UNITED STATES	ANCHORAGE	WVAK01/02	PAWU	PAZA	KWBCYMYX	13
FIJI	NADI	WVFJ01	NFFN	NFFF	NFFNYMYX	30
INDONESIA	JAKARTA	WVID20	WIII	WIIZ	WIIYMYX	13
INDONESIA	MAKASSAR	WVID21	WAAA	WAAZ	WAAAYMYX	161
JAPAN	TOKYO	WVJP31	RJTD	RJJJ	RJTDYMYX	21
RUSSIAN FEDERATION	PETROPAVLOVSK-KAMCHATSKY	WVRA31	RUPK	UHPP	UHPPYMYX	183

Table 3: WV SIGMETs issued in July 2016

3.3.4 WVJP31 and WVRA31 were transmitted by Jeddah, Saudi Arabia (OEJDYMYX) with a priority ‘GG’ converted from the original priority ‘FF’. These bulletins were received in duplicate by RODB Bangkok, Brisbane and Tokyo.

3.3.5 WV SIGMETs from Anchorage, United States (WVAK01/02 PAWU) were received only by RODB Singapore. RODB Tokyo received them only via the GTS.

3.3.6 A large number of WV SIGMETs from Nadi, Fiji (WVFJ01 NFFN) had invalid Date/Time Group (DTG). DTG did not match its time of issuance and validity period. Some bulletins had the same WMO abbreviated header (WMO AHL) for different daily sequence numbers and/or validity periods.

3.3.7 WV SIGMETs from Indonesia (WVID20/21) were received by RODB Singapore and Brisbane. Some of them included invalid items as detailed below:

- Some WVVs had the starting time of the validity period earlier than its time of issuance;
- There were (i) different daily sequence numbers in the same WMO AHL or (ii) the same daily sequence number in different WMO AHL;
- Some validity periods were not set correctly; and

- Some WVVs were received belatedly compared with the time of WMO AHL or the validity period.

3.3.8 Some WV SIGMETs from Russia (WVRA31 RUPK) had invalid DTG or daily sequence numbers.

3.3.9 RODB Tokyo transmitted WV SIGMET from Russia (WVRA31 RUPK) with the invalid priority ‘GG’ converted from the original priority ‘FF’.

#### **4. SUMMARY**

4.1 In comparison with the annual SIGMET tests, the result of this monitoring potentially shows routine operational status in exchanging SIGMET messages. Through the one-month monitoring, same sort of issues which have been identified in the annual SIGMET test were found in exchanged SIGMET messages, such as irregular duplication of messages and incorrect usage of header information.

4.2 On the other hand, in order to investigate States’ performance in issuing and disseminating SIGMETs in an appropriate and timely manner, it is necessary to carefully examine the contents of individual SIGMET and weather conditions at the time. This would require additional workload which would seem beyond responsibility of RODBs. Detailed investigation of weather conditions to evaluate appropriateness of each SIGMET would require significant workload and careful consideration because there would be certain amount of differences among States in terms of skills and procedures for SIGMET preparation.

#### **5. ACTION REQUIRED BY THE MEETING**

5.1 The meeting is invited to:

- note the result of the SIGMET monitoring presented above; and
  - discuss any relevant issues.
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**Appendix 1: Summary of TCA and WC SIGMET bulletins issuance in July 2016**

1 Rx Date	2 Rx Time				3 Priority	4 Origin	5 TTAAii	6 CCCC	7 YYGGgg	8 FIR/UIR	9 MWO	10 SIG No	11 Validity	12 remarks
	WSSS	VTBB	YBBB	RJTD										
01/07/2016	2:10	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	010200					NIL
02/07/2016	2:34	2:34		2:34	FF	VIDPYMYX	WCIN31	VIDP	020200					NIL
02/07/2016	12:56	12:56	12:58	12:56	GG	RJTDYMYX	FKPQ30	RJTD	021200					
02/07/2016	18:55	18:55	18:57	18:55	GG	RJTDYMYX	FKPQ30	RJTD	021800					
03/07/2016	0:54	0:54	0:56	0:54	GG	RJTDYMYX	FKPQ30	RJTD	030000					
03/07/2016	1:09				GG	PHFOYMYX	WCPA04	PHFO	030106	KZAK	PHFO	QUEBEC 1	030105/030705	
03/07/2016	2:10	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	030200					NIL
03/07/2016	2:42				GG	PHFOYMYX	WCPA04	PHFO	030236	KZAK	PHFO	QUEBEC 2	030235/030835	
03/07/2016	6:44	6:44	6:45	6:44	GG	RJTDYMYX	FKPQ30	RJTD	030600					
03/07/2016	7:33				GG	PHFOYMYX	WCPA04	PHFO	030729	KZAK	PHFO	QUEBEC 3	030730/031330	
03/07/2016	12:47	12:47	12:49	12:47	GG	RJTDYMYX	FKPQ30	RJTD	031200					
03/07/2016	13:33				GG	PHFOYMYX	WCPA04	PHFO	031329	KZAK	PHFO	QUEBEC 4	031330/031930	
03/07/2016	18:43	18:43	18:45	18:43	GG	RJTDYMYX	FKPQ30	RJTD	031800					
03/07/2016	19:33				GG	PHFOYMYX	WCPA04	PHFO	031930	KZAK	PHFO	QUEBEC 5	031930/040130	
04/07/2016	0:42	0:42	0:43	0:42	GG	RJTDYMYX	FKPQ30	RJTD	040000					
04/07/2016	1:36				GG	PHFOYMYX	WCPA04	PHFO	040130	KZAK	PHFO	QUEBEC 6	040130/040730	
04/07/2016	2:12	2:12		2:12	FF	VIDPYMYX	WCIN31	VIDP	040200					NIL
04/07/2016	6:48	6:48	6:49	6:48	GG	RJTDYMYX	FKPQ30	RJTD	040600					
04/07/2016	7:33				GG	PHFOYMYX	WCPA04	PHFO	040729	KZAK	PHFO	QUEBEC 7	040730/041330	
04/07/2016	12:46	12:46	12:48	12:46	GG	RJTDYMYX	FKPQ30	RJTD	041200					
04/07/2016	13:33				GG	PHFOYMYX	WCPA04	PHFO	041329	KZAK	PHFO	QUEBEC 8	041330/041930	
04/07/2016	18:42	18:43	18:44	18:42	GG	RJTDYMYX	FKPQ30	RJTD	041800					
04/07/2016	19:33				GG	PHFOYMYX	WCPA04	PHFO	041929	KZAK	PHFO	QUEBEC 9	041930/050130	
05/07/2016	0:50	0:50	0:51	0:50	GG	RJTDYMYX	FKPQ30	RJTD	050000					
05/07/2016	1:39				GG	PHFOYMYX	WCPA04	PHFO	050134	KZAK	PHFO	QUEBEC 10	050130/050730	
05/07/2016	2:13	2:13		2:13	FF	VIDPYMYX	WCIN31	VIDP	050200					NIL
05/07/2016	3:15				GG	PHFOYMYX	WCPA04	PHFO	050312	KZAK	PHFO	QUEBEC 11	050313/050730	
05/07/2016	6:43	6:43	6:44	6:43	GG	RJTDYMYX	FKPQ30	RJTD	050600					
05/07/2016	7:36				GG	PHFOYMYX	WCPA04	PHFO	050731	KZAK	PHFO	QUEBEC 12	050730/051330	
05/07/2016	12:45	12:45	12:46	12:45	GG	RJTDYMYX	FKPQ30	RJTD	051200					
05/07/2016	13:36				GG	PHFOYMYX	WCPA04	PHFO	051333	KZAK	PHFO	QUEBEC 13	051335/051935	
05/07/2016	18:40	18:40	18:41	18:40	GG	RJTDYMYX	FKPQ30	RJTD	051800					
05/07/2016	19:36				GG	PHFOYMYX	WCPA04	PHFO	051930	KZAK	PHFO	QUEBEC 14	051935/060135	
05/07/2016	21:19	21:21		21:21	FF	RPLLYMYX	WCPH31	RPLL	052100	RPHI	RPLL	1	052100/060300	
06/07/2016	0:49	0:49	0:50	0:49	GG	RJTDYMYX	FKPQ30	RJTD	060000					
06/07/2016	1:30				GG	PHFOYMYX	WCPA04	PHFO	060125	KZAK	PHFO	QUEBEC 15	060130/060730	
06/07/2016	2:10	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	060200					NIL
06/07/2016	2:49	2:49		2:49	FF	RPLLYMYX	WCPH31	RPLL	060300	RPHI	RPLL	1	060300/060900	
06/07/2016	6:40	6:40	6:41	6:39	GG	RJTDYMYX	FKPQ30	RJTD	060600					
06/07/2016	7:03				GG	PHFOYMYX	WCPA04	PHFO	060659	KZAK	PHFO	QUEBEC 16	060700/060730	
06/07/2016	9:00		8:59	GG	OJDYMYX	WCPH31	RPLL	060900	RPHI	RPLL	2	060900/061500		
06/07/2016	8:56	8:56	8:56	FF	RPLLYMYX	WCPH31	RPLL	060900	RPHI	RPLL	2	060900/061500		
06/07/2016	12:47	12:47	12:48	12:47	GG	RJTDYMYX	FKPQ30	RJTD	061200					
06/07/2016	14:54	14:54		14:54	FF	RPLLYMYX	WCPH31	RPLL	061500	RPHI	RPLL	3	061500/062100	
06/07/2016	18:49	18:49	18:50	18:48	GG	RJTDYMYX	FKPQ30	RJTD	061800					
06/07/2016	20:33				FF	RPLLYMYX	WCPH31	RPLL	062100	RPHI	RPLL	4	062100/070300	
06/07/2016	22:06			22:06	FF	RJTDYMYX	WCJP31	RJTD	062210	RJJ	RJTD	N01	062210/070410	
06/07/2016	23:56	23:56		23:56	FF	RPLLYMYX	WCPH31	RPLL	062353	RPHI	RPLL	5	062353/070300	

07/07/2016	0:47	0:47	0:49	0:47	GG	RJTDYMYX	FKPQ30	RJTD	070000							
07/07/2016	1:05			1:05	FF	RJTDYPYX	WCJP31	RJTD	070110	RJJ	RJTD	N01	070110/070710			
07/07/2016	2:11	2:11		2:11	FF	VIDPYMYX	WCIN31	VIDP	070200						NIL	
07/07/2016	3:14	3:14		3:14	FF	ZSSSYZYX	WCCI34	ZSSS	070311	ZSHA	ZSSS	1	070330/070930			
07/07/2016	6:46	6:46	6:48	6:46	GG	RJTDYMYX	FKPQ30	RJTD	070600							
07/07/2016	7:05			7:05	FF	RJTDYPYX	WCJP31	RJTD	070710	RJJ	RJTD	N02	070710/071310			
07/07/2016	9:27	9:27		9:27	FF	ZSSSYZYX	WCCI34	ZSSS	070923	ZSHA	ZSSS	2	070930/071530			
07/07/2016	12:52	12:52	13:25	13:23	GG	RJTDYMYX	FKPQ30	RJTD	071200							
07/07/2016	13:23	13:23	13:25	13:23	GG	RJTDYMYX	FKPQ30	RJTD	071200 CCA							
07/07/2016		13:15		13:15	GG	OEJDYMYX	WCCI31	RCTP	071243	RCAA	RCTP	4	071300/071600			
07/07/2016	12:44	12:44		12:44	FF	RCTPYMYM	WCCI31	RCTP	071243	RCAA	RCTP	4	071300/071600			
07/07/2016		13:15		13:15	GG	OEJDYMYX	WCJP31	RJTD	071310	RJJ	RJTD	N03	071310/071910			
07/07/2016	13:06			13:06	FF	RJTDYPYX	WCJP31	RJTD	071310	RJJ	RJTD	N03	071310/071910			
07/07/2016	15:48	15:48		15:48	FF	ZSSSYZYX	WCCI34	ZSSS	071545	ZSHA	ZSSS	3	071600/072200			
07/07/2016		15:57		15:57	GG	OEJDYMYX	WCCI31	RCTP	071553	RCAA	RCTP	5	071600/071900			
07/07/2016	15:54	15:54		16:02	FF	RCTPYMYM	WCCI31	RCTP	071553	RCAA	RCTP	5	071600/071900			
07/07/2016		16:19		16:19	GG	OEJDYMYX	WCJP31	RJTD	071600	RJJ	RJTD	N04	071600/071910			
07/07/2016	15:59			15:59	FF	RJTDYPYX	WCJP31	RJTD	071600	RJJ	RJTD	N04	071600/071910			
07/07/2016	18:48	18:48	18:50	18:48	GG	RJTDYMYX	FKPQ30	RJTD	071800							
07/07/2016		19:01		19:01	GG	OEJDYMYX	WCCI31	RCTP	071851	RCAA	RCTP	6	071900/072200			
07/07/2016	18:53	18:53		18:53	FF	RCTPYMYM	WCCI31	RCTP	071851	RCAA	RCTP	6	071900/072200			
07/07/2016		21:25			GG	ZKPYMYX	FKR31	ZKWS	072100							
07/07/2016	21:42	21:42		21:42	FF	ZSSSYZYX	WCCI34	ZSSS	072140	ZSHA	ZSSS	4	072200/080400			
07/07/2016	22:22	22:22		22:22	FF	RCTPYMYM	WCCI31	RCTP	072219	RCAA	RCTP	7	072200-080100			
08/07/2016	0:49	0:49	0:50	0:49	GG	RJTDYMYX	FKPQ30	RJTD	080000							
08/07/2016	0:52	0:52		0:52	FF	RCTPYMYM	WCCI31	RCTP	080052	RCAA	RCTP	1	080100/080400			
08/07/2016	1:53	1:53		1:53	FF	RCTPYMYM	WCCI31	RCTP	080152	RCAA	RCTP	3	080155/080400			
08/07/2016	2:12	2:12		2:12	FF	VIDPYMYX	WCIN31	VIDP	080200						NIL	
08/07/2016	3:38	3:38		3:38	FF	ZSSSYZYX	WCCI34	ZSSS	080333	ZSHA	ZSSS	1	080400/081000			
08/07/2016	3:40	3:41		3:40	FF	RCTPYMYM	WCCI31	RCTP	080338	RCAA	RCTP	4	080400/080700			
08/07/2016	3:46	3:46		3:46	FF	RPLLYMYX	WCPH31	RPLL	080346	RPHI	RPLL	B01	080346/080746			
08/07/2016	6:43	6:43	6:45	6:43	GG	RJTDYMYX	FKPQ30	RJTD	080600							
08/07/2016	6:38	6:38		6:38	FF	VIDPYMYX	WCIN31	VIDP	080637	RCAA	RCTP	5	080700/081000			
08/07/2016	9:40	9:40		9:40	FF	ZSSSYZYX	WCCI34	ZSSS	080932	ZSHA	ZSSS	2	081000/081600			
08/07/2016	9:42	9:42		9:42	FF	RCTPYMYM	WCIN31	RCTP	080940	RCAA	RCTP	6	081000/081300			
08/07/2016	12:53	12:53	12:54	12:53	GG	RJTDYMYX	FKPQ30	RJTD	081200							
08/07/2016	12:43	12:44		12:43	FF	RCTPYMYM	WCCI31	RCTP	081240	RCAA	RCTP	8	081300/081600			
08/07/2016	15:38	15:38		15:38	FF	ZSSSYZYX	WCCI34	ZSSS	081533	ZSHA	ZSSS	3	081600/082200			
08/07/2016	15:48	15:48		15:48	FF	RCTPYMYM	WCCI31	RCTP	081545	RCAA	RCTP	9	081600/081900			
08/07/2016	18:43	18:43	18:44	18:43	GG	RJTDYMYX	FKPQ30	RJTD	081800							
08/07/2016	18:38	18:38		18:38	FF	RCTPYMYM	WCCI31	RCTP	081836	RCAA	RCTP	10	081900/082200			
08/07/2016	21:44	21:44		21:44	FF	ZSSSYZYX	WCCI34	ZSSS	082137	ZSHA	ZSSS	4	082200/090400			
08/07/2016		22:13		22:12	GG	OEJDYMYX	WCCI31	RCTP	082139	RCAA	RCTP	11	082200/090100			
08/07/2016	21:41	21:41		21:41	FF	RCTPYMYM	WCCI31	RCTP	082139	RCAA	RCTP	11	082200/090100			
09/07/2016	0:45	0:45	0:46	0:45	GG	RJTDYMYX	FKPQ30	RJTD	090000							
09/07/2016		0:47		0:47	GG	OEJDYMYX	WCCI31	RCTP	090037	RCAA	RCTP	1	090100/090400			
09/07/2016	0:39	0:38		0:38	FF	RCTPYMYM	WCCI31	RCTP	090037	RCAA	RCTP	1	090100/090400			
09/07/2016	2:13	2:13		2:13	FF	VIDPYMYX	WCIN31	VIDP	090200						NIL	
09/07/2016		4:02		4:01	GG	OEJDYMYX	WCCI31	RCTP	090352	RCAA	RCTP	2	090400/090700			
09/07/2016	3:53	3:53		3:53	FF	RCTPYMYM	WCCI31	RCTP	090352	RCAA	RCTP	2	090400/090700			
09/07/2016	6:47	6:47	6:49	6:47	GG	RJTDYMYX	FKPQ30	RJTD	090600							
09/07/2016	9:07	9:07		9:07	FF	ZSSSYZYX	WCCI34	ZSSS	090858	ZSHA	ZSSS	1	090900/091500			

10/07/2016	2:11	2:11		2:11	FF	VIDPYMYX	WCIN31	VIDP	100200						NIL
11/07/2016	6:45	6:45		6:45	FF	VIDPYMYX	WCIN31	VIDP	110200						NIL
12/07/2016	2:10	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	120200						NIL
13/07/2016	2:11	2:11		2:11	FF	VIDPYMYX	WCIN31	VIDP	130200						NIL
14/07/2016	2:10	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	140200						NIL
15/07/2016	2:12	2:14		2:12	FF	VIDPYMYX	WCIN31	VIDP	150200						NIL
16/07/2016	2:12	2:12		2:12	FF	VIDPYMYX	WCIN31	VIDP	160200						NIL
16/07/2016			2:47		GG	NZKLYMYX	FKPA22	PHFO	160241						
17/07/2016	2:13	16:45		16:45	FF	VIDPYMYX	WCIN31	VIDP	170200						NIL
19/07/2016	2:10	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	190200						NIL
20/07/2016	2:10	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	200200						NIL
21/07/2016	2:01	2:10		2:10	FF	VIDPYMYX	WCIN31	VIDP	210200						NIL
22/07/2016	2:11	2:11		2:11	FF	VIDPYMYX	WCIN31	VIDP	220200						NIL
22/07/2016			14:57		GG	NZKLYMYX	FKPZ21	KNHC	221450						
23/07/2016	1:30	1:30	1:32	1:30	GG	RJTDYMYX	FKPQ30	RJTD	230000						
23/07/2016	2:07	2:07		2:06	FF	VIDPYMYX	WCIN31	VIDP	230200						NIL
23/07/2016	7:19	7:19	7:21	7:19	GG	RJTDYMYX	FKPQ30	RJTD	230600						
23/07/2016	13:26	13:26	13:27	13:26	GG	RJTDYMYX	FKPQ30	RJTD	231200						
23/07/2016	19:00	19:00	19:02	19:00	GG	RJTDYMYX	FKPQ30	RJTD	231800						
23/07/2016	19:14	19:14	19:16	19:14	FF	RJTDYPYX	WCJP31	RJTD	231915	RJJJ	RJTD	O01			231915/240115
24/07/2016	0:46	0:46	0:48	0:46	GG	RJTDYMYX	FKPQ30	RJTD	240000						
24/07/2016	1:11	1:11	1:13	1:11	FF	RJTDYPYX	WCJP31	RJTD	240115	RJJJ	RJTD	O01			240115/240715
24/07/2016	2:07	2:07		2:07	FF	VIDPYMYX	WCIN31	VIDP	240200						NIL
24/07/2016	6:48	6:48	6:49	6:47	GG	RJTDYMYX	FKPQ30	RJTD	240600						
24/07/2016	7:10	7:10	7:12	7:10	FF	RJTDYPYX	WCJP31	RJTD	240715	RJJJ	RJTD	O02			240715/241315
24/07/2016	12:41	12:42	12:43	12:41	GG	RJTDYMYX	FKPQ30	RJTD	241200						
24/07/2016		13:07	13:09	13:07	GG	OEJDYMYX	WCJP31	RJTD	241300	RJJJ	RJTD	O03			241310/241910
24/07/2016		13:16	13:18	13:16	GG	OEJDYMYX	WCJP31	RJTD	241310	RJJJ	RJTD	O03			241310/241910
24/07/2016	13:05	13:05	13:07	13:05	FF	RJTDYPYX	WCJP31	RJTD	241310	RJJJ	RJTD	O03			241310/241910
24/07/2016	18:44	18:44	18:45	18:44	FF	RJTDYPYX	WCJP31	RJTD	241845	RJJJ	RJTD	O04			241845/241910
25/07/2016	2:06	2:06		2:06	FF	VIDPYMYX	WCIN31	VIDP	250200						NIL
25/07/2016	10:19			10:19	FF	RPLLYMYX	WCPH	RPLL	251020	RPHI	RPLL	BO6			251020/251420
25/07/2016	13:09	13:09	13:11	13:09	GG	RJTDYMYX	FKPQ30	RJTD	251200						
25/07/2016	19:08	19:08	19:09	19:08	GG	RJTDYMYX	FKPQ30	RJTD	251800						
26/07/2016	0:49	0:49	0:51	0:49	GG	RJTDYMYX	FKPQ30	RJTD	260000						
26/07/2016	2:06	2:06		2:06	FF	VIDPYMYX	WCIN31	VIDP	260200						NIL
26/07/2016			2:45		GG	NZKLYMYX	FKPA23	PHFO	260239						
26/07/2016	6:47	6:47	6:48	6:47	GG	RJTDYMYX	FKPQ30	RJTD	260600						
26/07/2016	6:46	6:46	6:48	6:46	FF	ZJHKYMYX	WCCI35	ZJHK	260638	ZJSA	ZJHK	2			260900/261500
26/07/2016	12:51	12:51	12:53	12:51	GG	RJTDYMYX	FKPQ30	RJTD	261200						
26/07/2016	15:41	15:41	15:43	15:41	FF	ZJHKYMYX	WCCI35	ZJHK	261533	ZJSA	ZJHK	5			261600/262200
26/07/2016	18:43	18:43	18:44	18:42	GG	RJTDYMYX	FKPQ30	RJTD	261800						
26/07/2016	21:58	21:58	22:00	21:58	FF	ZJHKYMYX	WCCI35	ZJHK	262149	ZJSA	ZJHK	8			262200/270400
27/07/2016	0:41	0:41	0:43	0:41	GG	RJTDYMYX	FKPQ30	RJTD	270000						
27/07/2016	2:07	2:07		2:07	FF	VIDPYMYX	WCIN31	VIDP	270200						NIL
27/07/2016	4:01	4:01	4:03	4:01	FF	ZJHKYMYX	WCCI35	ZJHK	270355	ZJSA	ZJHK	2			270600/271200
27/07/2016			4:38	4:40	4:38	GG	OEJDYMYX	WCVS31	VVGL	270405	VVNB	VVGL	3		270410/271010
27/07/2016	4:08	4:08	4:10	4:08	FF	VVGLYMYX	WCVS31	VVGL	270405	VVNB	VVGL	3			270410/271010
27/07/2016			5:36	5:38	5:36	GG	OEJDYMYX	WCVS31	VVGL	270507 CCA	VVNB	VVGL	3		270410/271010
27/07/2016	5:07	5:08	5:09	5:08	FF	VVGLYMYX	WCVS31	VVGL	270507 CCA	VVNB	VVGL	3			CCA (VTBB)
27/07/2016	6:46	6:47	6:48	6:46	GG	RJTDYMYX	FKPQ30	RJTD	270600						270410/271010
27/07/2016	10:13	10:13	10:15	10:13	FF	VVGLYMYX	WCVS31	VVGL	271010	VVNB	VVGL	5			CCA (VTBB)

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27/07/2016	12:48	12:48	12:50	12:48	GG	RJTDYMYX	FKPQ30	RJTD	271200							
27/07/2016			14:52		GG	NZKLYMYX	FKPZ23	KNHC	271445							
27/07/2016	16:04	16:04	16:05	16:04	FF	VVGGLYMYX	WCVS31	VVGL	271610	VVNB	VVGL	6	271610/272210			
27/07/2016	18:50	18:50	18:52	18:50	GG	RJTDYMYX	FKPQ30	RJTD	271800							
27/07/2016	22:02	22:02	22:04	22:02	FF	VVGGLYMYX	WCVS31	VVGL	272205	VVNB	VVGL	7	272210/280410			
28/07/2016	0:44	0:44	0:46	0:44	GG	RJTDYMYX	FKPQ30	RJTD	280000							
28/07/2016	2:07	2:07		2:07	FF	VIDPYMYX	WCIN31	VIDP	280200				NIL			
28/07/2016	6:42	6:42	6:44	6:42	GG	RJTDYMYX	FKPQ30	RJTD	280600							
28/07/2016			20:39		GG	NZKLYMYX	FKPZ22	KNHC	282031							
29/07/2016	2:05	2:07		2:06	FF	VIDPYMYX	WCIN31	VIDP	290200				NIL			
29/07/2016	7:26	7:26	7:28	7:26	GG	RJTDYMYX	FKPQ30	RJTD	290600							
29/07/2016	13:18	13:18	13:19	13:18	GG	RJTDYMYX	FKPQ30	RJTD	291200							
29/07/2016	19:18	19:18	19:20	19:18	GG	RJTDYMYX	FKPQ30	RJTD	291800							
29/07/2016	18:36			18:36	FF	RPLLYMYX	WCPH	RPLL	291835	RPHI	RPLL	A05	291835/292235	Incorrect header(RJTD)		
30/07/2016	0:59	0:59	1:01	0:59	GG	RJTDYMYX	FKPQ30	RJTD	300000							
30/07/2016	2:06	2:06			FF	VIDPYMYX	WCIN31	VIDP	300200				NIL			
30/07/2016	6:56	6:56	6:58	6:56	GG	RJTDYMYX	FKPQ30	RJTD	300600							
30/07/2016		9:03	9:04		GG	OEJDYMYX	WCPH31	RPLL	300900	RPHI	RPLL	1	300900/301500			
30/07/2016	9:00	9:00	9:02		FF	RPLLYMYX	WCPH31	RPLL	300900	RPHI	RPLL	1	300900/301500			
30/07/2016	12:45	12:45	12:46	12:45	GG	RJTDYMYX	FKPQ30	RJTD	301200							
30/07/2016	14:57	14:57	14:59	14:57	FF	RPLLYMYX	WCPH31	RPLL	301500	RPHI	RPLL	2	301500/302100			
30/07/2016	18:47	18:47	18:48	18:46	GG	RJTDYMYX	FKPQ30	RJTD	301800							
30/07/2016		21:02	21:04	21:02	GG	OEJDYMYX	WCPH31	RPLL	302040	RPHI	RPLL	3	302100/310300			
30/07/2016	20:40	20:42	20:43	20:42	FF	RPLLYMYX	WCPH31	RPLL	302040	RPHI	RPLL	3	302100/310300			
31/07/2016	0:47	0:47	0:49	0:47	GG	RJTDYMYX	FKPQ30	RJTD	310000							
31/07/2016	2:06	2:06		2:06	FF	VIDPYMYX	WCIN31	VIDP	310200				NIL			
31/07/2016	2:42	2:42	2:43	2:42	FF	RPLLYMYX	WCPH31	RPLL	310242	RPHI	RPLL	1	310300/310900			
31/07/2016	6:52	6:52	6:53	6:52	GG	RJTDYMYX	FKPQ30	RJTD	310600							
31/07/2016	8:56	8:57	8:58	8:57	FF	RPLLYMYX	WCPH31	RPLL	310900	RPHI	RPLL	2	310900/311500			
31/07/2016	9:48	9:49	9:50	9:49	FF	RPLLYMYX	WCPH31	RPLL	310950	RPHI	RPLL	AO3	310950/311350			
31/07/2016	12:48	12:48	12:50	12:48	GG	RJTDYMYX	FKPQ30	RJTD	311200							
31/07/2016		13:05	13:06	13:04	GG	OEJDYMYX	WCPH31	RPLL	311302	RPHI	RPLL	AO4	311302/311702			
31/07/2016	13:02	13:02	13:04	13:02	FF	RPLLYMYX	WCPH31	RPLL	311302	RPHI	RPLL	AO4	311302/311702			
31/07/2016		15:43	15:45	15:43	GG	OEJDYMYX	WCPH31	RPLL	311500	RPHI	RPLL	3	311500/312100			
31/07/2016	14:56	14:56	14:57	14:56	FF	RPLLYMYX	WCPH31	RPLL	311500	RPHI	RPLL	3	311500/312100			
31/07/2016		18:10	18:12	18:10	GG	OEJDYMYX	WCSS20	VHHH	311750	VHHK	VHHH	5	010550/011150			
31/07/2016		17:47	17:48	17:47	FF	VHHHYMYX	WCSS20	VHHH	311750	VHHK	VHHH	5	010550/011150			
31/07/2016	18:51	18:51	18:53	18:51	GG	RJTDYMYX	FKPQ30	RJTD	311800							

**Appendix 2: Summary of VAA and WV SIGMET bulletins issuance (01/07/2016 – 03/07/2016)**

1 Rx Date	2 Rx Time				3 Priority	4 Origin	5 TTAAii	6 CCCC	7 YYGGgg	8 FIR/UR	9 MWO	10 SIG No	11 Validity	12 remarks
	WSSS	VTBB	YBBB	RJTD										
01/07/2016	0:01		0:03		FF	WAAAAYMYX	WVID21	WAAA	302350	WAAZ	WAAA	04	302330/010530	
01/07/2016			0:08	0:07	FF	CWAOYMYC	FVXX23	KNES	010005					
01/07/2016			0:08	0:07	GG	KWBCYMYX	FVXX23	KNES	010005					
01/07/2016	2:56	2:56	2:58	2:56	GG	YMMCYMYX	FVAU05	ADRM	010256					
01/07/2016	5:31	5:30	5:32	5:30	GG	YMMCYMYX	FVAU03	ADRM	010530					
01/07/2016	5:44		5:46		FF	WAAAAYMYX	WVID21	WAAA	010540	WAAZ	WAAA	01	010530/011130	
01/07/2016	7:16	7:16	7:18	7:16	GG	YMMCYMYX	FVAU04	ADRM	010716					
01/07/2016	8:41		8:42		FF	WIIYMYX	WVID20	WIII	010841	WIIIZ	WIII	01	010830/011131	
01/07/2016	8:58	8:58	8:59	8:57	GG	YMMCYMYX	FVAU05	ADRM	010857					
01/07/2016	11:26	11:26	11:28	11:26	GG	YMMCYMYX	FVAU04	ADRM	011126					
01/07/2016	11:34	11:34	11:36	11:34	GG	YMMCYMYX	FVAU03	ADRM	011134					
01/07/2016	12:33		12:35		FF	WAAAAYMYX	WVID21	WAAA	011225	WAAZ	WAAA	01	011130/011730	beginning time of the validity period was earlier than the issue time(WSSS)
01/07/2016	13:24		13:25		FF	WIIYMYX	WVID20	WIII	011320	WIIIZ	WIII	03	011320/011720	
01/07/2016	14:58	14:58	15:00	14:58	GG	YMMCYMYX	FVAU05	ADRM	011458					
01/07/2016	15:29	15:29	15:31	15:29	GG	YMMCYMYX	FVAU05	ADRM	011529					
01/07/2016			16:19	16:18	GG	KWBCYMYX	FVXX23	KNES	011617					
01/07/2016			16:20	16:18	FF	CWAOYMYC	FVXX23	KNES	011617					
01/07/2016	17:08	17:08	17:09	17:08	GG	YMMCYMYX	FVAU04	ADRM	011707					
01/07/2016	17:27	17:27	17:28	17:27	GG	YMMCYMYX	FVAU03	ADRM	011726					
01/07/2016	18:59	18:59	19:00	18:58	GG	RJTDYMYX	FVFE01	RJTD	011858					
01/07/2016	19:04	19:04	19:06		GG	RJTDYPYX	WVRA31	RUPK	011903	UHPP	UHPP	1	011903/020020	
01/07/2016	19:05	19:07	19:05		GG	OEJDYMYX	WVRA31	RUPK	011903	UHPP	UHPP	1	011903/020020	
01/07/2016			19:04		FF	UHPPYMYX	WVRA31	RUPK	011903	UHPP	UHPP	1	011903/020020	
01/07/2016	19:46	19:46	19:47	19:46	GG	RJTDYMYX	FVFE01	RJTD	011945					
01/07/2016	19:50	19:50	19:52	19:50	FF	RJTDYPYX	WVJP31	RJTD	011955	RJJ	RJTD	U01	011955/020155	
01/07/2016		19:51	19:52	19:51	GG	OEJDYMYX	WVJP31	RJTD	011955	RJJ	RJTD	U01	011955/020155	
01/07/2016			19:52		FF	YMMCYMYX	WVJP31	RJTD	011955	RJJ	RJTD	U01	011955/020155	
01/07/2016	20:19	20:19	20:20	20:19	GG	RJTDYMYX	FVFE01	RJTD	012018					
01/07/2016	20:26	20:26	20:27	20:26	FF	RJTDYPYX	WVJP31	RJTD	012030	RJJ	RJTD	U02	012030/020230	
01/07/2016		20:27	20:29	20:27	GG	OEJDYMYX	WVJP31	RJTD	012030	RJJ	RJTD	U02	012030/020230	
01/07/2016			20:27		FF	YMMCYMYX	WVJP31	RJTD	012030	RJJ	RJTD	U02	012030/020230	
01/07/2016	20:57	20:57	20:58	20:57	GG	YMMCYMYX	FVAU05	ADRM	012057					
01/07/2016	21:04		21:06		FF	WAAAAYMYX	WVID21	WAAA	012100	WAAZ	WAAA	07	011730/012330	beginning time of the validity period was earlier than the issue time(WSSS)
01/07/2016	21:02	21:02	21:03	21:02	GG	RJTDYMYX	FVFE01	RJTD	012101					
01/07/2016	21:07	21:07	21:08		GG	RJTDYPYX	WVRA31	RUPK	012107	UHPP	UHPP	2	012107/020020	
01/07/2016		21:08	21:09	21:08	GG	OEJDYMYX	WVRA31	RUPK	012107	UHPP	UHPP	2	012107/020020	
01/07/2016			21:07		FF	UHPPYMYX	WVRA31	RUPK	012107	UHPP	UHPP	2	012107/020020	
01/07/2016	21:11	21:11	21:13		GG	RJTDYPYX	WVRA31	RUPK	012110	UHPP	UHPP	3	012110/020220	
01/07/2016		21:12	21:14	21:12	GG	OEJDYMYX	WVRA31	RUPK	012110	UHPP	UHPP	3	012110/020220	
01/07/2016			21:12		FF	UHPPYMYX	WVRA31	RUPK	012110	UHPP	UHPP	3	012110/020220	
01/07/2016			22:07	22:06	GG	KWBCYMYX	FVXX23	KNES	012203					
01/07/2016			22:08	22:06	FF	CWAOYMYC	FVXX23	KNES	012203					
01/07/2016	23:27	23:27	23:28	23:27	GG	YMMCYMYX	FVAU03	ADRM	012327					
01/07/2016	23:50	23:50	23:52	23:50	GG	RJTDYMYX	FVFE01	RJTD	012350					
01/07/2016	23:55				GG	RJTDYPYX	WVRA31	RUPK	012355	UHPP	UHPP	4	012355/020220	
01/07/2016		23:55	23:57	23:55	GG	OEJDYMYX	WVRA31	RUPK	012355	UHPP	UHPP	4	012355/020220	

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01/07/2016				23:55	FF	UHPPYMYX	WVRA31	RUPK	012355	UHPP	UHPP	4	012355/020220		
01/07/2016	23:57	23:57	23:59	23:57	GG	RJTDYMYX	FVFE01	RJTD	012357						
02/07/2016	0:29		0:30		FF	WAAAYMYX	WVID21	WAAA	012330	WAAZ	WAAA	08	012330/020430		
02/07/2016	0:03	0:03	0:04	0:03	FF	RJTDYPYX	WVJP31	RJTD	020005	RJJJ	RJTD	U01	020005/020230		
02/07/2016			0:04	0:05	0:04	GG	OEJDYMYX	WVJP31	RJTD	020005	RJJJ	RJTD	U01	020005/020230	
02/07/2016				0:04	FF	YMMCYMYX	WVJP31	RJTD	020005	RJJJ	RJTD	U01	020005/020230		
02/07/2016	2:55	2:55	2:57	2:55	GG	YMMCYMYX	FVAU05	ADRM	020255						
02/07/2016	4:41	4:41	4:42	4:41	GG	RJTDYMYX	FVFE01	RJTD	020440						
02/07/2016	5:26	5:26	5:27	5:26	GG	YMMCYMYX	FVAU03	ADRM	020526						
02/07/2016	5:42		5:43		FF	WAAAYMYX	WVID21	WAAA	020540	WAAZ	WAAA	02	020530/021130		
02/07/2016	7:18	7:19	7:20	7:18	GG	YMMCYMYX	FVAU04	ADRM	020718						
02/07/2016	8:27	8:27	8:28	8:26	GG	RJTDYMYX	FVFE01	RJTD	020826						
02/07/2016	8:32	8:32	8:33	8:32	FF	RJTDYPYX	WVJP31	RJTD	020835	RJJJ	RJTD	V02	020835/021435		
02/07/2016		8:33	8:34	8:33	GG	OEJDYMYX	WVJP31	RJTD	020835	RJJJ	RJTD	V02	020835/021435		
02/07/2016			8:33		FF	YMMCYMYX	WVJP31	RJTD	020835	RJJJ	RJTD	V02	020835/021435		
02/07/2016	8:57	8:57	8:59	8:57	GG	YMMCYMYX	FVAU05	ADRM	020857						
02/07/2016	9:19	9:19	9:20	9:19	GG	YMMCYMYX	FVAU03	ADRM	020919						
02/07/2016	10:20		10:21		FF	WAAAYMYX	WVID21	WAAA	021015	WAAZ	WAAA	05	020920/021520	beginning time of the validity period was earlier than the issue time(WSSS)	
02/07/2016	13:13	13:13	13:14	13:13	GG	YMMCYMYX	FVAU04	ADRM	021313						
02/07/2016	13:21	13:21	13:22	13:21	GG	YMMCYMYX	FVAU04	ADRM	021321						VAA content same as at 021313 but sent with different DTG(WSSS)
02/07/2016	13:23	13:23	13:25	13:23	GG	YMMCYMYX	FVAU04	ADRM	021323						VAA content same as at 021313 but sent with different DTG(WSSS)
02/07/2016	14:51	14:52	14:53	14:51	GG	YMMCYMYX	FVAU05	ADRM	021451						
02/07/2016	15:53	14:53	14:55	14:53	GG	YMMCYMYX	FVAU05	ADRM	021453						VAA content same as at 021313 but sent with different DTG(WSSS)
02/07/2016			15:37	15:36	GG	KWBCYMYX	FVXX20	KNES	021534						
02/07/2016			15:38	15:36	FF	CWAOYMYC	FVXX20	KNES	021534						
02/07/2016	20:57	20:57	20:59	20:57	GG	YMMCYMYX	FVAU05	ADRM	022057						
02/07/2016			21:27	21:26	FF	CWAOYMYC	FVXX20	KNES	022123						
02/07/2016			21:27	21:26	GG	KWBCYMYX	FVXX20	KNES	022123						
02/07/2016	22:41	22:41	22:42	22:41	GG	RJTDYMYX	FVFE01	RJTD	022240						
02/07/2016	22:51	22:51	22:53		GG	RJTDYPYX	WVRA31	RUPK	022250	UHPP	UHPP	5	022250/030410		
02/07/2016		22:53	22:55	22:53	GG	OEJDYMYX	WVRA31	RUPK	022250	UHPP	UHPP	5	022250/030410		
02/07/2016				22:52	FF	UHPPYMYX	WVRA31	RUPK	022250	UHPP	UHPP	5	022250/030410		
03/07/2016	0:01	0:03	0:02	0:01	GG	RJTDYMYX	FVFE01	RJTD	030000						
03/07/2016	0:08				GG	RJTDYPYX	WVRA31	RUPK	030010	UHPP	UHPP	1	030010/030410		
03/07/2016		0:09	0:10	0:09	GG	OEJDYMYX	WVRA31	RUPK	030010	UHPP	UHPP	1	030010/030410		
03/07/2016				0:08	FF	UHPPYMYX	WVRA31	RUPK	030010	UHPP	UHPP	1	030010/030410		
03/07/2016	0:11				GG	RJTDYPYX	WVRA31	RUPK	030011	UHPP	UHPP	2	030011/030520		
03/07/2016		0:12	0:14	0:12	GG	OEJDYMYX	WVRA31	RUPK	030011	UHPP	UHPP	2	030011/030520		
03/07/2016				0:11	FF	UHPPYMYX	WVRA31	RUPK	030011	UHPP	UHPP	2	030011/030520		
03/07/2016	0:16	0:16	0:18	0:16	GG	RJTDYMYX	FVFE01	RJTD	030016						
03/07/2016	0:25				GG	RJTDYPYX	WVRA31	RUPK	030025	UHPP	UHPP	3	030025/030550		
03/07/2016		0:26	0:27	0:26	GG	OEJDYMYX	WVRA31	RUPK	030025	UHPP	UHPP	3	030025/030550		
03/07/2016				0:25	FF	UHPPYMYX	WVRA31	RUPK	030025	UHPP	UHPP	3	030025/030550		
03/07/2016	2:57	2:57	2:58	2:57	GG	YMMCYMYX	FVAU05	ADRM	030257						
03/07/2016	3:17	3:17	3:18	3:17	GG	RJTDYMYX	FVFE01	RJTD	030316						
03/07/2016	3:17	3:17	3:19	3:17	GG	YMMCYMYX	FVAU04	ADRM	030317						
03/07/2016	3:33	3:34	3:35		GG	RJTDYPYX	WVRA31	RUPK	030330	UHPP	UHPP	4	030330/030840		
03/07/2016		3:35	3:37	3:35	GG	OEJDYMYX	WVRA31	RUPK	030330	UHPP	UHPP	4	030330/030840		
03/07/2016				3:34	FF	UHPPYMYX	WVRA31	RUPK	030330	UHPP	UHPP	4	030330/030840		
03/07/2016	5:51	5:51	5:53	5:51	GG	RJTDYMYX	FVFE01	RJTD	030551						
03/07/2016	5:55	5:55	5:57	5:55	GG	RJTDYMYX	FVFE01	RJTD	030555						
03/07/2016	6:00	6:00	6:02	6:00	GG	RJTDYMYX	FVFE01	RJTD	030600						

03/07/2016	6:00	6:00	6:01		GG	RJTDYPYX	WVRA31	RUPK	030600	UHPP	UHPP	5	030600/030840	
03/07/2016		6:01	6:02	6:01	GG	OEJDYMYX	WVRA31	RUPK	030600	UHPP	UHPP	5	030600/030840	
03/07/2016				6:00	FF	UHPPYMYX	WVRA31	RUPK	030600	UHPP	UHPP	5	030600/030840	
03/07/2016	6:08	6:08	6:09		GG	RJTDYPYX	WVRA31	RUPK	030610	UHPP	UHPP	6	030610/031120	
03/07/2016		6:09	6:10	6:09	GG	OEJDYMYX	WVRA31	RUPK	030610	UHPP	UHPP	6	030610/031120	
03/07/2016				6:08	FF	UHPPYMYX	WVRA31	RUPK	030610	UHPP	UHPP	6	030610/031120	
03/07/2016	7:00	7:00	7:02	7:00	GG	RJTDYMYX	FVFE01	RJTD	030700					
03/07/2016	7:07	7:07	7:08		GG	RJTDYPYX	WVRA31	RUPK	030706	UHPP	UHPP	7	030706/031120	
03/07/2016		7:08	7:09	7:08	GG	OEJDYMYX	WVRA31	RUPK	030706	UHPP	UHPP	7	030706/031120	
03/07/2016				7:07	FF	UHPPYMYX	WVRA31	RUPK	030706	UHPP	UHPP	7	030706/031120	
03/07/2016	7:12	7:12	7:13		GG	RJTDYPYX	WVRA31	RUPK	030710	UHPP	UHPP	8	030710/031230	
03/07/2016		7:14	7:15	7:14	GG	OEJDYMYX	WVRA31	RUPK	030710	UHPP	UHPP	8	030710/031230	
03/07/2016				7:12	FF	UHPPYMYX	WVRA31	RUPK	030710	UHPP	UHPP	8	030710/031230	
03/07/2016	8:57	8:57	8:59	8:57	GG	YMMCYMYX	FVAU05	ADRM	030857					
03/07/2016	12:00	12:00	12:02	12:00	GG	RJTDYMYX	FVFE01	RJTD	031200					
03/07/2016	12:04	12:04	12:05		GG	RJTDYPYX	WVRA31	RUPK	031205	UHPP	UHPP	9	031205/031230	
03/07/2016		12:05	12:06	12:05	GG	OEJDYMYX	WVRA31	RUPK	031205	UHPP	UHPP	9	031205/031230	
03/07/2016				12:04	FF	UHPPYMYX	WVRA31	RUPK	031205	UHPP	UHPP	9	031205/031230	
03/07/2016	12:08	12:08	12:09		GG	RJTDYPYX	WVRA31	RUPK	031208	UHPP	UHPP	10	031208/031720	
03/07/2016		12:09	12:10	12:09	GG	OEJDYMYX	WVRA31	RUPK	031208	UHPP	UHPP	10	031208/031720	
03/07/2016				12:08	FF	UHPPYMYX	WVRA31	RUPK	031208	UHPP	UHPP	10	031208/031720	
03/07/2016				12:13	FF	CWAOYMYC	FVXX21	KNES	031210					
03/07/2016				12:19	12:11	GG	KWBCYMYX	FVXX21	KNES	031210				
03/07/2016	12:51	12:51	12:53	12:51	GG	YMMCYMYX	FVAU04	ADRM	031251					
03/07/2016	13:53		13:54		FF	WIIYMYX	WVID20	WIII	031354	WIIZ	WIII	01	031350/031850	
03/07/2016	14:58	14:58	14:59	14:58	GG	YMMCYMYX	FVAU05	ADRM	031458					
03/07/2016			17:37	17:35	FF	CWAOYMYC	FVXX20	KNES	031734					
03/07/2016			17:37	17:35	GG	KWBCYMYX	FVXX20	KNES	031734					
03/07/2016	17:50	17:50	17:52	17:50	GG	RJTDYMYX	FVFE01	RJTD	031750					
03/07/2016	18:47	18:47	18:48	18:47	GG	YMMCYMYX	FVAU04	ADRM	031847					
03/07/2016			20:54	20:53	FF	CWAOYMYC	FVXX22	KNES	032051					
03/07/2016			20:54	20:53	GG	KWBCYMYX	FVXX22	KNES	032051					
03/07/2016	21:01	21:00	21:02	21:00	GG	YMMCYMYX	FVAU05	ADRM	032100					
03/07/2016			23:14	23:12	FF	CWAOYMYC	FVXX20	KNES	032310					
03/07/2016			23:17	23:12	GG	KWBCYMYX	FVXX20	KNES	032310					
03/07/2016			23:46	23:44	FF	CWAOYMYC	FVXX22	KNES	032342					
03/07/2016			23:50	23:44	GG	KWBCYMYX	FVXX22	KNES	032342					