

International Civil Aviation Organization

ICAO

WORKING PAPER (WP/10)
**ASIA AND PACIFIC (APAC) TWENTY-FOURTH
MEETING OF THE METEOROLOGICAL
INFORMATION EXCHANGE WORKING
GROUP (MET/IE WG/24)**

Nadi, Fiji, 21 to 24 April 2026

**Agenda Item 3: Quality Control, Monitoring, and Management of Meteorological
Information Exchange**
RESULTS OF SIGMET TESTS 2025 – TC and VA

(Presented by Japan)

SUMMARY

This paper presents the results of the ASIA/PAC SIGMET tests conducted in November 2025 for tropical cyclone and volcanic ash.

1. INTRODUCTION

1.1 The MET Divisional Meeting (2002) formulated Recommendation 1/12 b), Implementation of SIGMET requirements, which called, inter alia, for the relevant Planning and Implementation Regional Groups (PIRGs) to conduct periodic tests of the issuance and reception of SIGMET messages, especially those for volcanic ash.

1.2 The Regional SIGMET tests were conducted on the following dates (month/date) for the last 5 years:

SIGMET for	2021	2022	2023	2024	2025
TC	12/08	11/9	11/8	11/13	11/12
VA	12/15	11/16	11/15	11/20	11/19

2. DISCUSSION
Schedule and procedure of SIGMET tests

2.1 In its State letter dated 24 October 2025 on the schedule for SIGMET tests in the Asia/Pacific Region – November 2025, the ICAO Asia Pacific Regional Office notified the following schedule and the procedure of the regional SIGMET tests:

WC/LY SIGMET Test (Tropical Cyclone)

- 12 November, 0200 UTC, 0500 UTC or 0800 UTC (refer to the SIGMET Test Procedures):
 - TCACs issue a test Tropical Cyclone Advisory
 - MWOs issue corresponding WC/LY SIGMET test messages
 - RODBs/WAFCs record and summarise messages

WV/LV SIGMET Test (Volcanic Ash)

- 19 November, 0200 UTC:
 - VAACs issue a test Volcanic Ash Advisory
 - MWOs issue corresponding WV/LV SIGMET test messages
 - RODBs/WAFCs record and summarise messages.

SIGMET test message in the IWXXM form

2.2 MWOs that have implemented the ICAO meteorological information exchange model (IWXXM) should disseminate the SIGMET test messages in the IWXXM form in addition to disseminating the test messages in abbreviated plain language or alphanumeric form.

Test result and analysis

2.3 Four RODBs (Bangkok, Brisbane, Singapore and Nadi) and WAFC London sent the summary of bulletins received during the tests to Tokyo, the rapporteur. The combined information on the reception of the bulletins during the test for each TC (WC) and VA (WV) is shown in the Appendix 5 and 6, respectively. In this paper, the overall availability is represented by the rate of test bulletins received at least at one RODB(s) over all those expected to be reported.

2.4 Tropical cyclone (FK) and volcanic ash advisories (FV) issued at the test are shown in Appendix 1.

2.5 SIGMET test messages (LY, LV) and advisories (LK, LU) in the IWXXM form issued at the test are shown in Appendix 2.

Summary of WC SIGMET test

2.6 The total number of WC test bulletins expected to be reported during the test was 50 and the number received during the test was 38. The overall availability of WC test bulletins was 73.1%, which was lower than the results of 2024 (73.6%). Appendix 3 shows the availability of WC test bulletins at each RODB and the total since 2009.

Summary of WV SIGMET test

2.7 The total number of WV test bulletins expected to be reported during the test was 55 including 6 Russian WV SIGMETs (UIII, UHHH, UNKL, UHMM, UEEE and UHPP). The total number of WV test bulletins received during the test was 51. The overall availability of WV test bulletins was 92.7%, which was better than that of 2024 (86%). Appendix 4 shows the availability of WV test bulletins at each RODB and the total since 2009.

Follow-up activity

2.8 RODB Tokyo did not receive test SIGMETs from MWO Ulaanbaatar during the test period. Japan's COMM centre requires to set "Encode Information Type" to "ia5-text" on AMHS. The test was conducted on 17 December 2026, and RODB Tokyo received test messages from MWO Ulaanbaatar without any problems.

2.9 MWO Port Moresby sent test SIGMETs to RODB Singapore and Tokyo via email, but not via AFTN/AMHS. Transmission to AFTN/AMHS is expected in the next test.

2.10 IWXXM testing was conducted between ROC Inchon and RODB Tokyo before the test. However, a system issue of RODB Tokyo was identified whereby parameters representing date and time on AMHS cannot be processed when their digit count falls below a specified threshold. As a

temporary measure for the test, the test SIGMET was sent by email. The issue is expected to be resolved in the system update scheduled for next year.

CONCLUSION

2.11 Both in the WC and WV SIGMET test, there were still incorrect use of the priority and wrong WMO headings.

2.12 Some WC and WV test messages have still not been received by all RODBs in the ASIA/PAC region. Participating States should send the test message to all RODBs and WAFCs.

2.13 Some States issued SIGMET and advisory test messages in the IWXXM form, but many States are not ready to issue a test message in the IWXXM form yet.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Note the result of the SIGMET tests presented above; and
- b) Discuss on the future importance of the SIGMET exchange in the region; and
- c) Discuss, if necessary, revision of the test procedure.

Appendix 1: TCA and VAA test bulletins in TAC

TCA test bulletins

TCAC	PI	TTAAii	CCCC	YYGGgg	Received Time(UTC)				
					VTBB	WSSS	YBBB	NFFN	RJTD
NEW DELHI	FF	FKIN20	VIDP	120200	2:01	2:00	2:00	2:00	2:00
	FF	FKIN20	VIDP	120800	8:08	8:07	8:07	8:07	8:07
	FF	FKIN21	VIDP	120200	2:01	2:01	2:01		2:01
	FF	FKIN21	VIDP	120800	8:08	8:07	8:07		8:07
	FF	FKIN20	DEMS	120200		2:00			
	FF	FKIN20	DEMS	120806		8:06			
	FF	FKIN21	DEMS	120200		2:00			
	FF	FKIN21	DEMS	120800		8:07			
NADI	FF	FKPS01	NFFN	120000	2:00	2:00		2:00	2:00
	FF	FKPS20	NFFN	120340		3:40			
TOKYO	FF	FKPQ30	RJTD	120200	2:02	2:02	2:02	2:02	
UNITED STATES	GG	FKPA21	PHFO	120201		2:04			2:01
		FKPZ21	KNHC	120200		2:04			
REUNION	FF	FKIO20	FMEE	120541	5:41	5:41			5:42

VAA test bulletins

VAAC	PI	TTAAii	CCCC	YYGGgg	Received Time(UTC)				
					VTBB	WSSS	YBBB	NFFN	RJTD
TOULOUSE	FF	FVXX04	LFPW	190200		2:05			2:00
DARWIN	FF	FVAU03	ADRM	190200	1:59	1:58	1:58	1:58	1:58
WASHINGTON	GG	FVXX25	KNES	190200		1:58			1:58
WELLINGTON	FF	FVPS01	NZKL	190158	1:59	1:58	1:58	1:58	1:58
TOKYO	FF	FVFE01	RJTD	190200	2:00	2:00	2:00	2:00	2:00
ANCHORAGE	GG	FVAK21	PAWU	190158		1:58			1:58

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Appendix 2: Test bulletins in IWXXM

TCA and TC SIGMET in IWXXM

STATE	TCAC	TTAAii	CCCC	YYGGgg	Version	Received Time(UTC)				
						VTBB	WSSS	YBBB	NFFN	RJTD
JAPAN	TOKYO	LKPQ30	RJTD	120200	3.0		2:00			2:00

STATE	MWO	FIR	TTAAii	CCCC	YYGGgg	Version	Received Time(UTC)					
							VTBB	WSSS	YBBB	NFFN	RJTD	EGRR
AUSTRALIA	YMMC	YBBB	LYAU01	YMMC	120204	2021-2	2:05	2:04			2:04	
		YMMM	LYAU01	YMMC	120214/120529	2021-2	2:15/5:30	2:15/5:30			2:15/5:30	
CAMBODIA	VDPP	VDPF	LYKP31	VDPP	120200	2021-2	2:00	2:00				
CHINA	ZBAA	ZBPE	LYCI33	ZBAA	120207	2023-1	2:09	2:08			2:08	
	ZUUU	ZPKM	LYCI36	ZUUU	120207	2023-1	2:11	2:11			2:11	
	ZGGG	ZGZU	LYCI35	ZGGG	120207	2023-1	2:11	2:10			2:10	
	ZJHK	ZJSA	LYCI35	ZJHK	120207	2023-1	2:11	2:11			2:11	
	VHHH	VHHK	LYSS20	VHHH	120202	2023-1	2:10	2:10			2:10	2:11
	ZSSS	ZSHA	LYCI34	ZSSS	120207	2023-1	2:11	2:10			2:10	
	RCTP	RCAA	LYCI31	RCTP	120200	2021-2	2:08	2:06			2:06	2:08
FIJI	NFFN	NFFF	LYFJ04	NFFN	120203	2021-2	2:03	2:03			2:03	2:04
FRENCH POLYNESIA	NTAA	NTTT	LYPF21	NTAA	120211	2021-2		2:11			2:11	
INDONESIA	WIII	WIIF	LYID20	WIII	120201	2023-1	2:27	2:27			2:27	
JAPAN	RJTD	RJJJ	LYJP31	RJTD	120205	3.0		2:13			2:13	2:14
REPUBLIC OF KOREA	RKSI	RKSI	LYKO31	RKSI	120201	2023-1	2:06	2:05			2:19	
SINGAPORE	WSSS	WSJC	LYSR20	WSSS	120204	2023-1	2:06	2:05			2:05	2:06
SOLOMON ISLAND	AGGH	AGGG	LYSO20	AGGH	120220	2021-2	2:21	2:21			2:21	2:23
THAILAND	VTBS	VTBB	LYTH31	VTBS	120200	2021-2	2:00	2:00			2:00	2:01
RUSSIAN FEDERATION	UHHH	UHHH	LYRA31	RUHB	120204			2:05				2:06
	UHPP	UHMM	LYRA31	RUPK	120203							2:06

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VAA and VA SIGMET in IWXXM

STATE	VAAC	TTAAii	CCCC	YYGGgg	Version	Received Time(UTC)				
						VTBB	WSSS	YBBB	NFFN	RJTD
AUSTRALIA	DARWIN	LUAU03	ADRM	190158	2021-2	1:58	1:58			1:58
JAPAN	TOKYO	LUFEO1	RJTD	190200	3.0		2:02			2:02
NEW ZEALAND	WELLINGTON	LUPS01	NZKL	190158	2021-2	1:58	1:58			1:58
FRANCE	TOULOUSE	LUXX04	LFPW	190200			2:00			

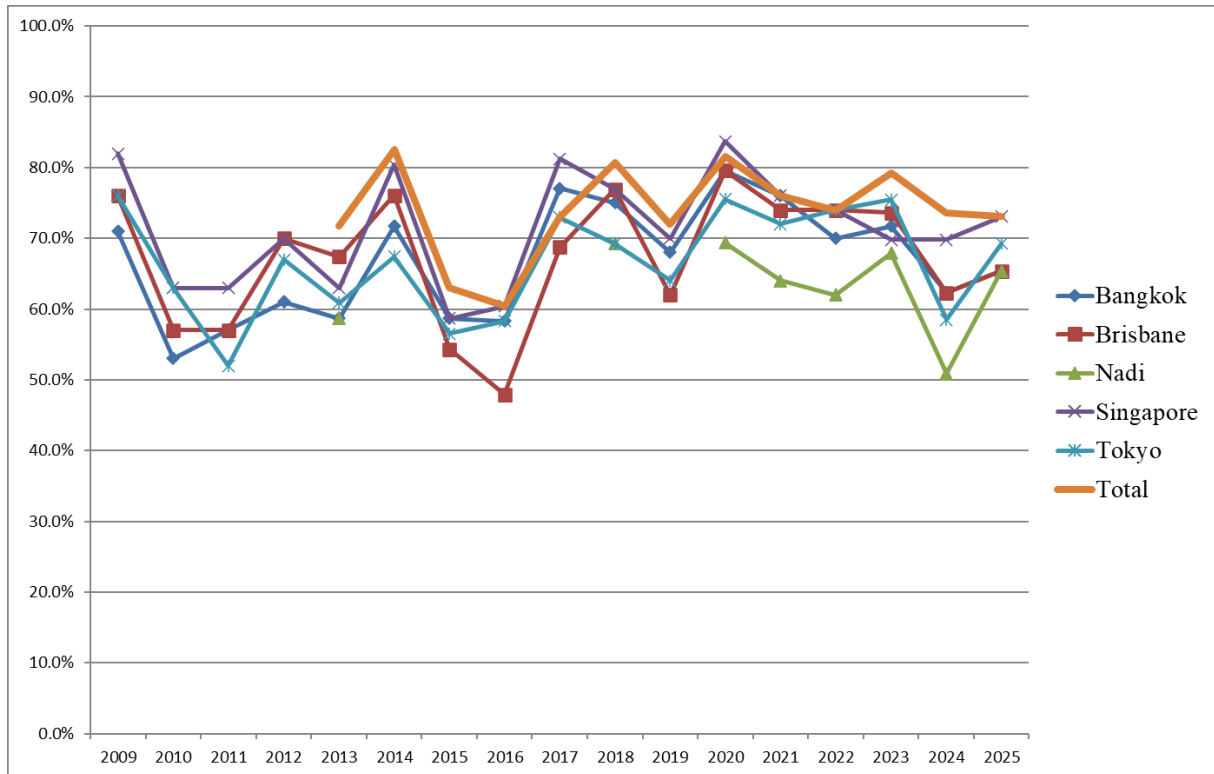
STATE	MWO	FIR	TTAAii	CCCC	YYGGgg	Version	Received Time(UTC)					
							VTBB	WSSS	YBBB	NFFN	RJTD	EGRR
AUSTRALIA	YMMC	YMMM	LVAU01	YMMC	190201	2021-2	2:01	2:01			2:01	
		YBBB	LVAU01	YMMC	190203	2021-2	2:04	2:03			2:03	
CAMBODIA	VDPP	VDPF	LVKP31	VDPP	190200	2021-2	2:00	2:00			2:00	
CHINA	ZBAA	ZBPE	LVCI31	ZBAA	190205	2023-1	2:11	2:10			2:10	
	ZUUU	ZPKM	LVCI36	ZUUU	190205	2023-1	2:12	2:12			2:12	
	ZGGG	ZGZU	LVCI35	ZGGG	190205	2023-1	2:20	2:21			2:21	
	ZJHK	ZJSA	LVCI35	ZJHK	190205	2023-1	2:12	2:11			2:11	
	VHHH	VHHK	LVSS20	VHHH	190207	2023-1	2:10	2:09			2:09	2:11
	ZSSS	ZSHA	LVCI34	ZSSS	190205	2023-1	2:11	2:11			2:11	
	ZYTX	ZYSH	LVCI38	ZYTX	190205	2023-1	2:12	2:12			2:12	
	RCTP	RCAA	LVCI31	RCTP	190200	2021-2	2:03	2:03			2:03	
	ZWWW	ZWUQ	LVCI39	ZWWW	190205	2023-1	2:15	2:14			2:14	
	ZHHH	ZHWH	LVCI45	ZHHH	190205	2023-1	2:11	2:09			2:09	
ZLXY	ZLHW	LVCI37	ZLXY	190205	2023-1	2:21	2:21			2:21		
FIJI	NFFN	NFFF	LVFJ01	NFFN	190202	2021-2	2:02	2:02			2:02	
FRANCE French Polynesia	NTAA	NTTT	LVPF20	NTAA	190215	2021-2		2:16			2:16	
INDONESIA	WIII	WIIF	LVID20	WIII	190201	2023-1	2:05	2:04			2:04	
	WAAA	WAAF	LVID21	WAAA	190206	2023-1	2:08	2:07			2:07	
JAPAN	RJTD	RJJJ	LVJP31	RJTD	190205	3.0		2:08			2:05	
MALAYSIA	WMKK	WMFC	LVMS31	WMKK	190202			2:02				
PHILIPPINES	RPLL	RPHI	LVPH31	RPLL	190205	2023-1	2:10	2:08			2:08	2:09
REPUBLIC OF KOREA	RKSI	RKSI	LVKO31	RKSI	190210	2023-1	2:05	2:04			2:18	
SINGAPORE	WSSS	WSJC	LVSR20	WSSS	190202	2023-1	2:03	2:02			2:03	2:04
SOLOMON ISLAND	AGGH	AGGG	LVSO20	AGGH	190230	2021-2	2:31	2:31			2:31	2:32
THAILAND	VTBS	VTBB	LVTH31	VTBS	190200	2021-2	2:02	2:02			2:02	2:03
RUSSIAN FEDERATION	UIII	UIII	LVRA31	RUIR	190200			2:02				2:03
	UNKL	UNKL	LVRA31	RUKR	190202							2:04
	UHHH	UHHH	LVRA31	RUHB	190201			2:02				2:03
	UHMM	UHMM	LVRA31	RUMG	190202			2:03				2:09
	UHPP	UHMM	LVRA31	RUPK	190205			2:06				2:08
	UEEE	UEEE	LVRA31	RUYK	190200			2:05				2:06

OPERATIONAL

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Appendix 3: Availability of the WC SIGMET test

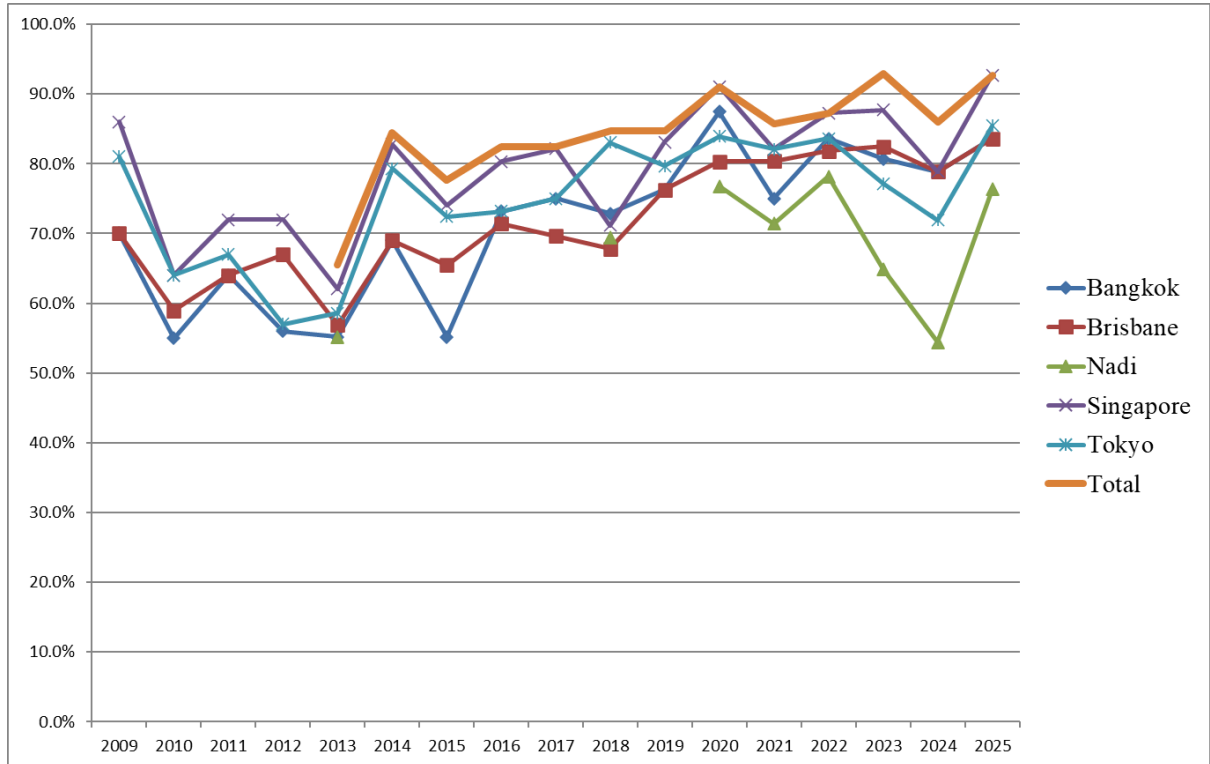
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Bangkok	71.0%	53.0%	57.0%	61.0%	58.7%	71.7%	58.7%	58.3%	77.1%	75.0%	68.0%	79.6%	76.0%	70.0%	71.7%	62.3%	65.4%
Brisbane	76.0%	57.0%	57.0%	70.0%	67.4%	76.1%	54.3%	47.9%	68.8%	76.9%	62.0%	79.6%	74.0%	74.0%	73.6%	62.3%	65.4%
Nadi					58.7%					69.2%		69.4%	64.0%	62.0%	67.9%	50.9%	65.4%
Singapore	82.0%	63.0%	63.0%	70.0%	63.0%	80.4%	58.7%	60.4%	81.3%	76.9%	70.0%	83.7%	76.0%	74.0%	69.8%	69.8%	73.1%
Tokyo	76.0%	63.0%	52.0%	67.0%	60.9%	67.4%	56.5%	58.3%	72.9%	69.2%	64.0%	75.5%	72.0%	74.0%	75.5%	58.5%	69.2%
Total					71.7%	82.6%	63.0%	60.4%	72.9%	80.8%	72.0%	81.6%	76.0%	74.0%	79.2%	73.6%	73.1%



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Appendix 4: Availability of the WV SIGMET test

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Bangkok	70.0%	55.0%	64.0%	56.0%	55.2%	69.0%	55.2%	73.2%	75.0%	72.9%	76.3%	87.5%	75.0%	83.6%	80.7%	78.9%	83.6%
Brisbane	70.0%	59.0%	64.0%	67.0%	56.9%	69.0%	65.5%	71.4%	69.6%	67.8%	76.3%	80.4%	80.4%	81.8%	82.5%	78.9%	83.6%
Nadi					55.2%					69.5%		76.8%	71.4%	78.2%	64.9%	54.4%	76.4%
Singapore	86.0%	64.0%	72.0%	72.0%	62.1%	82.8%	74.1%	80.4%	82.1%	71.2%	83.1%	91.1%	82.1%	87.3%	87.7%	78.9%	92.7%
Tokyo	81.0%	64.0%	67.0%	57.0%	58.6%	79.3%	72.4%	73.2%	75.0%	83.1%	79.7%	83.9%	82.1%	83.6%	77.2%	71.9%	85.5%
Total					65.5%	84.5%	77.6%	82.5%	82.5%	84.7%	84.7%	91.1%	85.7%	87.3%	93.0%	86.0%	92.7%



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Appendix 5: Table of WC SIGMET test

MWO details in APEC Regional SIGMET TEST Procedures 2025/ SIGMET Guide											Test Result								
State	MWO name	MWO	TTAAii	CCCC	FIR	TCAC	PI	TTAAii	CCCC	YYGGgg	MWO	FIR	TCAC	Received Time(UTC)					
														VTBB	WSSS	YBBB	NFFN	RJTD	EGRR
AUSTRALIA	MELBOURNE	YMMC	WCAU01	YMMC	YBBB	Darwin/Nadi/La Réunion	FF	WCAU01	YMMC	120204/120218	YMMC	YBBB	Nadi/Darwin	2:05/2:18	- /2:18	2:04/2:18	2:04/2:18	2:04/2:18	2:05/2:19
				YMMM		Darwin/Nadi/La Réunion	FF	WCAU01	YMMC	120214/120529	YMMC	YMMM	Darwin/La Réunion	2:15/5:30	2:15/ -	2:15/5:30	2:15/5:30	2:15/5:30	2:15/5:30
BANGLADESH	DHAKA	VGHS	WCBW20	VGHS	VGFR	New Delhi	FF	WCBW61	VGHS	120210	VGHS	VGFR	Tokyo	2:17	2:17				
CAMBODIA	PHNOM PENH	VDPP	WCKP31	VDPP	VDPP	Tokyo	GG	WCKP31	VDPP	120210	VDPP	VDPP	Tokyo	2:11	2:11		2:11	2:11	2:13
CHINA	BEIJING	ZBAA	WCCI33	ZBAA	ZBPE	Tokyo	FF	WCCI33	ZBAA	120205	ZBAA	ZBPE	Tokyo	2:04	2:05	2:05	2:03	2:05	2:06
	CHENGDU	ZUUU	WCCI36	ZUUU	ZPKM	Tokyo	FF	WCCI36	ZUUU	120210	ZUUU	ZPKM	Tokyo		2:11	2:11	2:11	2:11	2:13
	GUANGZHOU	ZGGG	WCCI35	ZGGG	ZGZU	Tokyo	FF	WCCI35	ZGGG	120210	ZGGG	ZGZU	Tokyo	2:12	2:12	2:12	2:12	2:12	2:14
	HAIKOU	ZJHK	WCCI35	ZJHK	ZJSA	Tokyo	FF	WCCI35	ZJHK	120205	ZJHK	ZJSA	Tokyo	2:16	2:05	2:05	2:05	2:05	2:07
	HONG KONG	VHHH	WCSS20	VHHH	VHHK	Tokyo	FF	WCSS20	VHHH	120202	VHHH	VHHK	Tokyo	2:09	2:08	2:08	2:08	2:08	2:09
	SHANGHAI	ZSSS	WCCI34	ZSSS	ZSHA	Tokyo	FF	WCCI34	ZSSS	120205	ZSSS	ZSHA	Tokyo	2:09	2:08	2:08	2:05	2:08	2:09
	TAIBEI	RCTP	WCCI31	RCTP	RCAA	Tokyo	FF	WCCI31	RCTP	120216	RCTP	RCAA	Tokyo	2:17	2:17	2:17	2:05	2:17	2:17
DPR KOREA	SUNAN	ZKPY	WCKR31	ZKPY	ZKKP	Tokyo													
FIJI	NADI	NFFN	WCFJ01,02,...	NFFN	NFFF	Nadi/Tokyo	FF	WCFJ01	NFFN	120203	NFFN	NFFF	Nadi	2:03	2:03	2:03		2:03	2:03
FRENCH POLYNESIA	TAHITI	NTAA	WCPF20-23	NTAA	NTTT	Nadi/Honolulu/Miami	FF	WCPF20	NTAA	120211/120216/120219	NTAA	NTTT	NFFN/KNHC/PHFO	2:11/ - / -	2:11/2:16/2:19	2:11/2:16/2:19	2:11/2:16/ -	2:11/2:16/2:19	2:12/2:16/2:19
INDIA	CHENNAI	VOMM	WCIN31	VOMM	VOMF	New Delhi	DD	WCIN31	VOMM	120200	VOMM	VOMF	New Delhi	2:09	2:09	2:09	2:09	2:09	2:09
	MUMBAI	VABB	WCIN31	VABB	VABF	La Réunion/New Delhi	GG	WCIN31	VABB	120221	VABB	VABF	New Delhi	2:22	2:22	2:22	2:21	2:22	2:22
	NEW DELHI	VIDP	WCIN31	VIDP	VIDF	-	FF	WCIN31	VIDP	120200	VIDP	VIDF	New Delhi	2:02	2:02	2:02	2:02	2:02	2:03
	KOLKATA	VECC	WCIN31	VECC	VECF	-													
INDONESIA	JAKARTA	WIH	WCID20	WIH	WIIF	Darwin/New Delhi/Tokyo	FF	WCID20	WIH	120201/120203/120232	WIH	WIIF	New Delhi/Tokyo/Darwin	2:02/2:04/2:32	2:02/2:03/2:32	2:02/2:03/2:32	2:02/2:03/2:32	2:02/2:03/2:32	2:03/2:05/2:33
	MAKASSAR	WAAA	WCID21	WAAA	WAAF	Darwin/Tokyo	GG	WCID21	WAAA	120203/120215	WAAA	WAAF	Darwin/Tokyo	2:04/2:15	2:03/2:15	2:03/2:15	2:03/2:15	2:03/2:15	2:05/2:16
JAPAN	TOKYO	RJTD	WCJP31	RJTD	RJJJ	Tokyo	FF	WCJP31	RJTD	120205	RJTD	RJJJ	Tokyo	2:10	2:10	2:10	2:10	2:10	2:11
LAO PDR	VIENTIANE	VLVT	WCLA31	VLVT	VLVT	Tokyo	FF	WCLA31	VLVT	120205	VLVT	VLVT	Tokyo	2:01	2:00	2:00	2:00	2:00	2:02
MALAYSIA	KUALA LUMPUR	WMKK	WCMS31	WMKK	WMFC	New Delhi/Tokyo	FF	WCMS31	WMKK	120204/120207	WMKK	WMFC	New Delhi/Tokyo	2:05/2:09	2:04/2:07	2:04/2:07	2:04/2:07	2:04/2:07	2:05/2:08
	KOTA KINABALU				WBFC	New Delhi/Tokyo	FF	WCMS31	WMKK	120205	WBKK	WBFC	Tokyo	2:10	2:09	2:09	2:09	2:09	2:09
MALDIVES	MALE	VRMM	WCMV31	VRMM	VRMF	La Réunion/New Delhi													
MYANMAR	YANGON	VYYY	WCBM31	VYYY	VYYF	New Delhi	GG	WCBM31	VYYY	120205	VYYY	VYYF	New Delhi	2:05	2:04	2:04	2:05	2:04	2:06
NAURU	NAURU	ANYN	WCNW20	ANYN	ANAU	Nadi													
NEW ZEALAND	WELLINGTON	NZKL	WCNZ21	NZKL	NZZC	Nadi	FF	WCNZ21	NZKL	120206	NZKL	NZZC	Nadi	2:08	2:05	2:07	2:07	2:07	2:09
		NZKL	WCPS21	NZKL	NZZO	Nadi	FF	WCPS21	NZKL	120201	NZKL	NZZO	Nadi	2:06	2:05	2:05	2:05	2:05	2:07
PAKISTAN	KARACHI	OPKC	WCPK31	OPKC	OPKR	New Delhi	FF	WCPK31	OPKC	120202	OPKC	OPKR	New Delhi	2:14	2:14	2:14	2:14	2:14	2:16
PAPUA NEW GUINEA	PORT MORESBY	AYPY	WCNG20	AYPY	AYPY	Darwin													
PHILIPPINES	MANILA	RPLL	WCPH31	RPLL	RPHI	Tokyo	GG	WCPH31	RPLL	120205	RPLL	RPHI	Tokyo		2:05	2:05	2:05	2:05	2:06
REPUBLIC OF KOREA	INCHEON	RKSI	WCKO31	RKSI	RKRR	Tokyo	FF	WCKO31	RKSI	120201	RKSI	RKRR	Tokyo	2:06	2:05	2:05	2:05	2:05	2:06
SINGAPORE	SINGAPORE	WSSS	WCSR20	WSSS	WSJC	Tokyo	FF	WCSR20	WSSS	120204	WSSS	WSJC	Tokyo	2:05	2:04	2:04	2:04	2:04	2:05
SOLOMON ISLANDS	HONIARA	AGGH	WCSD20	AGGH	AGGG	Darwin/Nadi	FF	WCSD20	AGGH	120220/120232	AGGH	AGGG	Nadi/Darwin	2:20/2:31	2:21/2:32	2:21/2:32	2:21/2:32	2:21/2:32	2:22/2:33
SRI LANKA	COLOMBO	VCBI	WCBS31	VCBI	VCCF	Darwin/New Delhi	FF	WCBS31	VCBI	120232/120236	VCBI	VCCF	New Delhi/Darwin	2:44/2:48	2:43/2:48	2:43/2:48	2:43/2:47	2:43/2:48	2:44/2:48
THAILAND	BANGKOK	VTBS	WCTH31	VTBS	VTBB	Tokyo	FF	WCTH31	VTBS	120200	VTBS	VTBB	Tokyo	2:00	2:00	2:00	2:00	2:00	2:01
VIET NAM	GIA LAM	VVGL	WCVS31	VVGL	VVHM	Tokyo	FF	WCVS31	VVGL	120207	VVGL	VVHM	Tokyo	2:09	2:06	2:07	2:07	2:07	2:08
					VVHN	Tokyo	FF	WCVS31	VVGL	120205	VVGL	VVHN	Tokyo	2:08	2:06	2:06	2:06	2:05	2:07
UNITED STATES	HONOLULU	PHFO	WCPA01-13	PHFO	KZAK	Nadi/Tokyo/Honolulu/Miami	GG	WCPA13	PHFO	120201	PHFO	KZAK		2:01	2:01	2:01	2:01	2:01	2:03
	ANCHORAGE	PAWU	WCAK01-09	PAWU	PAZA	Honolulu/Miami													
	KANSAS CITY	KKCI	WCNT01-13	KKCI	KZAK	Tokyo/Honolulu/Miami													
		KKCI	WCPN01-13	KKCI	KZAK	Tokyo/Honolulu/Miami	GG	WCPN01-02,08	KKCI	120205	KKCI	KZAK	Miami/Honolulu/Tokyo	2:04/2:05/2:06	2:03/2:04/2:05	2:03/2:04/2:05	2:03/2:04/2:05	2:03/2:04/2:05	2:04/2:04/2:07
BAHRAIN	BAHRAIN	OBBI	WCBN31	OBBI	OBBS	New Delhi													
IRAN	TEHRAN	OIII	WCIR31	OIII	OIIX	New Delhi													
KUWAIT	KUWAIT	OKBK	WCKW10	OKBK	OKAC	New Delhi													
OMAN	MUSCAT	OOMS	WCOM31	OOMS	OOMM	New Delhi													
SAUDI ARABIA	JEDDAH	OEJD	WCSD20	OEJD	OEJD	New Delhi													
UNITED ARAB EMIRATES	ABU DHABI	OMAA	WCAE20	OMAA	OMAE	New Delhi													
YEMEN	SANNA	OYSN	WCYE31	OYSN	OYSC	New Delhi													
RUSSIAN FEDERATION	KHABAROVSK/NOVY YELEZOV/PETROPAVLOVSK- KAMCHATSKY	UHHH	WCRA31	RUHB	UHHH	Tokyo	FF	WCRA31	RUHB	120204	UHHH	UHHH	Tokyo		2:04				2:05
		UHPP	WCRA31	RUPK	UHMM	Tokyo	FF	WCRA31	RUPK	120203	UHPP	UHMM	Tokyo		2:04			2:04	2:04

