

International Civil Aviation Organization



**THIRTEENTH MEETING OF THE ASIA/PACIFIC REGIONAL OPMET
BULLETIN EXCHANGE WORKING GROUP (ROBEX WG/13) and
FIFTH MEETING OF METEOROLOGICAL HAZARDS TASK FORCE
(MET/H TF/5)**

Seoul, Republic of Korea, 18 March 2015

Agenda Item (conjoint session) 2: SIGMET and advisory information

MWO/ACC LOCATIONS/AFTN ADDRESSES FOR VAA INFORMATION

(Presented by the Secretariat)

SUMMARY

This paper presents lists of the meteorological watch office and area control centre locations and AFTN addresses required for the addressing of volcanic ash advisory information from VAAC Tokyo and VAAC Darwin.

1. INTRODUCTION

1.1 In accordance with the provisions in Annex 3, a VAAC is required to issue volcanic advisory information to meteorological watch offices, area control centres and flight information centres serving flight information regions in its area of responsibility which may be affected [by volcanic ash cloud].

1.2 In order to assist VAACs in the dissemination of volcanic ash advisory information to the required recipients, this paper presents lists of the MWO and ACC locations and AFTN addresses identified during VAAC back-up exercises as the required recipients for advisory information from VAAC Tokyo and VAAC Darwin.

2. DISCUSSION

2.1 The meeting will recall that Japan had previously discussed the issue of maintaining a distribution list and the associated 8-letter AFTN addresses for MWO and ACC to which VAA information is required to be distributed by VAAC Tokyo (CNS/MET SG/16 – IP/52 refers). After developing the list in coordination with the ICAO Regional Office in Bangkok, further discussion on the topic in the MET/H TF/4 meeting in March 2014 led to the agreed action (4/13) which requested ICAO to assist further with lists of MWO and ACC locations for distribution of VAA information from VAACs Darwin and Wellington and updates to the MWO and ACC location information for distribution of VAA information in the Asia/Pacific, including the AFTN addresses.

2.2 The meeting is advised that the action referred above was partially accomplished through the necessary coordination done between the Regional Office and States concerned during the preparation for the 2014 VAAC back-up tests for Tokyo and Darwin.

2.3 Based on a list of all MWOs/ACCs located within the relevant VAAC area of responsibility, a list of AFTN addresses for exchange of VAAC back-up test VAA messages was produced for the VAAC Darwin area of responsibility and the VAAC Tokyo area of responsibility.

2.4 The lists of MWOs/ACCs and AFTN addresses were adopted as part of the guidance material disseminated to participating States in the State letter Ref: AP147/14 (MET), which also requested that States provide updates as necessary to the Regional Office for current valid eight-letter AFTN addresses for all participating operational units.

2.5 For ease of reference, the updated information pertaining to the State letter is provided in the **Attachment** to this paper. The meeting will note that not all the location and AFTN information was updated by States during this exercise, which may be an important factor for consideration with respect to the ongoing maintenance and future development of lists of AFTN information.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Note the information in this paper;
- b) Discuss issues concerning the maintenance of such lists and usefulness to VAAC operations; and
- c) Recommend what further progress is required on this issue.

ATTACHMENT 1

TOKYO – DARWIN VAAC BACK-UP TEST PROCEDURES

1. Introduction

- 1.1 The *Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List* (Doc 9766) recommends that Volcanic Ash Advisory Centres (VAACs) should conduct back-up tests at least annually.
- 1.2 The Tokyo and Darwin VAACs have developed a mutual back-up arrangement that includes procedures for undertaking a back-up test as described in Doc 9766.

2. Purpose and Scope of VAAC Back-up tests

- 2.1 The purpose of the VAAC back-up test is to ensure that internal procedures for the handover of responsibility and the issue of products for the other VAAC's area of responsibility are robust and functional.
- 2.2 The scope of the test also includes checking the dissemination pathways of the volcanic ash advisory (VAA) messages. However it is not designed to check the issuance of volcanic ash SIGMET and so there is **no requirement** to issue test SIGMETs.

3. Back-up test of VAAC Darwin by VAAC Tokyo

- 3.1 At 0100UTC on 22 October 2014 VAAC Darwin will request back-up services from VAAC Tokyo according to internal procedures and using the operational VAAC contact details contained within the IAVW Handbook (Doc 9766) Table 4-2. VAAC Tokyo will issue a VAA for commencement of back-up test to participating operational units as per the VAA example in Attachment 1A (i) and the AFTN addresses in Attachment 2A.
- 3.2 VAAC Tokyo will issue a VAA for VAAC back-up test to participating operational units as per the VAA example in Attachment 1A (ii) and the AFTN addresses in Attachment 2A. All recipients (ACCs/FICs, MWOs, WAFCs and RODBs) of this VAA are requested to **respond to VAAC Darwin** using the email address vaac.darwin@bom.gov.au and the subject 'VAA TEST' with an affirmative or negative response regarding the receipt of the test VAA.
- 3.3 At 0130UTC on 22 October 2014 VAAC Darwin will notify of intent to resume normal operations to VAAC Tokyo, and at 0145UTC VAAC Darwin will issue a VAA for cessation of back-up test to participating operational units as per the VAA example in Attachment 1A (iii) and the AFTN addresses in Attachment 2A.
- 3.4 MWOs should NOT issue a test SIGMET at any stage of the test.

4. Back-up test of VAAC Tokyo by VAAC Darwin

- 4.1 At 0200UTC on 22 October 2014 the VAAC Tokyo will request back-up services from VAAC Darwin according to internal procedures and using the operational VAAC contact details contained within the IAVW Handbook (Doc 9766) Table 4-2. VAAC Darwin will issue a VAA for commencement of back-up test to participating operational units as per the VAA example in Attachment 1B (i) and the AFTN addresses in Attachment 2B.

- 4.2 VAAC Darwin will issue a VAA for VAAC back-up test to participating operational units as per the VAA example in Attachment 1B (ii) and the AFTN addresses in Attachment 2B. All recipients (ACCs/FICs, MWOs, WAFCs and RODBs) of this VAA are requested to **respond to VAAC Tokyo** using the email address vaac@eqvol2.kishou.go.jp and the subject 'VAA TEST' with an affirmative or negative response regarding the receipt of the test VAA.
- 4.3 At 0230UTC on 22 October 2014 VAAC Tokyo will notify of intent to resume normal operations to VAAC Darwin, and at 0245UTC VAAC Tokyo will issue a VAA for cessation of back-up test to participating operational units as per the VAA example in Attachment 1B (iii) and the AFTN addresses in Attachment 2B.
- 4.5 MWOs should NOT issue a test SIGMET at any stage of the test.

5. Back-up test termination and reporting

- 5.1 At 0300UTC on 22 October 2014 the test will be terminated.
- 5.2 In case of significant eruption, the test should be ceased.
- 5.3 During the test each VAAC will maintain a logbook of events and will provide the other VAAC with a copy.
- 5.4 Email responses to the VAA for VAAC back-up test will be analyzed by the VAACs. Both VAACs will analyze the responses to the test VAAs and will present the results to the conjoint meeting of the ROBEX Working Group and Meteorological Hazards Task Force to be held in March 2015.

ATTACHMENT 1A – SAMPLE VAA MESSAGES

(i) VAA for commencement of back-up test; AFTN message from VAAC Tokyo to operational units in VAAC Darwin area of responsibility:

GG *****
DDHHMM RJTDYMYX
FVAU01 ADRM DDHHMM
VA ADVISORY
DTG: YYYYMMDD/HHMMZ
VAAC: DARWIN
VOLCANO: NOTICE 999999
PSN: S8959 E9959
AREA: UNKNOWN
SUMMIT ELEV: 9999M
ADVISORY NR: YYYY/N
INFO SOURCE: NIL
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: NIL
OBS VA DTG: NIL
OBS VA CLD: NIL
FCST VA CLD +6HR: NO VA EXP
FCST VA CLD +12HR: NO VA EXP
FCST VA CLD +18HR: NO VA EXP
RMK: VAAC DARWIN AND VAAC TOKYO ARE CONDUCTING A BACK UP TEST NOW.
THIS IS A TEST NOTICE ISSUED BY VAAC TOKYO FOR THE VAAC DARWIN AREA
OF RESPONSIBILITY ANNOUNCING THE START OF BACK UP TEST FOR VAAC
DARWIN BY VAAC TOKYO.
NXT ADVISORY: NO FURTHER ADVISORIES.

(ii) VAA for VAAC back-up test; AFTN message from VAAC Tokyo to operational units in VAAC Darwin area of responsibility:

GG *****
DDHHMM RJTDYMYX
FVAU01 ADRM DDHHMM
VA ADVISORY
DTG: YYYYMMDD/HHMMZ
VAAC: DARWIN
VOLCANO: TEST 999999
PSN: S8959 E9959
AREA: UNKNOWN
SUMMIT ELEV: 9999M
ADVISORY NR: YYYY/N
INFO SOURCE: NIL
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: NIL
OBS VA DTG: NIL
OBS VA CLD: NIL
FCST VA CLD +6HR: NO VA EXP
FCST VA CLD +12HR: NO VA EXP
FCST VA CLD +18HR: NO VA EXP
RMK: THIS IS A TEST ADVISORY ISSUED BY TOKYO
VAAC FOR THE VAAC DARWIN AREA OF RESPONSIBILITY. PLEASE
ACKNOWLEDGE RECEIPT OF THIS ADVISORY BY SENDING AN EMAIL TO
DARWIN.VAAC AT BOM.GOV.AU
NXT ADVISORY: NO FURTHER ADVISORIES.

(iii) VAA for cessation of back-up test; AFTN message from VAAC Darwin to operational units in VAAC Darwin area of responsibility:

GG *****
DDHHMM YMMCXYX
FVAU01 ADRM DDHHMM
VA ADVISORY
DTG: YYYYMMDD/HHMMZ
VAAC: DARWIN
VOLCANO: NOTICE 999999
PSN: S8959 E9959
AREA: UNKNOWN
SUMMIT ELEV: 9999M
ADVISORY NR: YYYY/N
INFO SOURCE: NIL
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: NIL
OBS VA DTG: NIL
OBS VA CLD: NIL
FCST VA CLD +6HR: NO VA EXP
FCST VA CLD +12HR: NO VA EXP
FCST VA CLD +18HR: NO VA EXP
RMK: VAAC DARWIN AND VAAC TOKYO ARE CONDUCTING A BACK UP TEST NOW.
THIS IS A TEST NOTICE ISSUED BY VAAC DARWIN FOR THE VAAC DARWIN AREA
OF RESPONSIBILITY ANNOUNCING THE END OF BACK UP TEST FOR VAAC DARWIN
BY VAAC TOKYO.
NXT ADVISORY: NO FURTHER ADVISORIES.

(***** Indicates appropriate AFTN addresses as per Attachment 2A)

ATTACHMENT 1B – SAMPLE VAA MESSAGES

(i) VAA for commencement of back-up test; AFTN message from VAAC Darwin to operational units in VAAC Tokyo area of responsibility:

GG *****
DDHHMM YMMCYMYX
FVFE01 RJTD DDHHMM
VA ADVISORY
DTG: YYYYMMDD/HHMMZ
VAAC: TOKYO
VOLCANO: NOTICE 999999
PSN: S8959 E9959
AREA: UNKNOWN
SUMMIT ELEV: 9999M
ADVISORY NR: YYYY/N
INFO SOURCE: NIL
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: NIL
OBS VA DTG: NIL
OBS VA CLD: NIL
FCST VA CLD +6HR: NO VA EXP
FCST VA CLD +12HR: NO VA EXP
FCST VA CLD +18HR: NO VA EXP
RMK: VAAC DARWIN AND VAAC TOKYO ARE CONDUCTING A BACK UP TEST NOW.
THIS IS A TEST NOTICE ISSUED BY VAAC DARWIN FOR THE VAAC TOKYO AREA
OF RESPONSIBILITY ANNOUNCING THE START OF BACK UP TEST FOR VAAC
TOKYO BY VAAC DARWIN.
NXT ADVISORY: NO FURTHER ADVISORIES.

(ii) VAA for VAAC back-up test; AFTN message from VAAC Darwin to operational units in VAAC Tokyo area of responsibility:

GG *****
DDHHMM YMMCYMYX
FVFE01 RJTD DDHHMM
VA ADVISORY
DTG: YYYYMMDD/HHMMZ
VAAC: TOKYO
VOLCANO: TEST 999999
PSN: S89.59 E99.59
AREA: UNKNOWN
SUMMIT ELEV: 9999M
ADVISORY NR: YYYY/N
INFO SOURCE: NIL
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: NIL
OBS VA DTG: NIL
OBS VA CLD: NIL
FCST VA CLD +6HR: NO VA EXP
FCST VA CLD +12HR: NO VA EXP
FCST VA CLD +18HR: NO VA EXP
RMK: THIS IS A TEST ADVISORY ISSUED BY DARWIN
VAAC FOR THE VAAC TOKYO AREA OF RESPONSIBILITY. PLEASE
ACKNOWLEDGE RECEIPT OF THIS ADVISORY BY SENDING AN EMAIL TO
VAAC AT EQVOL2.KISHOU.GO.JP
NXT ADVISORY: NO FURTHER ADVISORIES.

(iii) VAA for cessation of back-up test; AFTN message from VAAC Tokyo to operational units in VAAC Tokyo area of responsibility:

GG *****
DDHHMM RJTDYMYX
FVFE01 RJTD DDHHMM
VA ADVISORY
DTG: YYYYMMDD/HHMMZ
VAAC: TOKYO
VOLCANO: NOTICE 999999
PSN: S89.59 E99.59
AREA: UNKNOWN
SUMMIT ELEV: 9999M
ADVISORY NR: YYYY/N
INFO SOURCE: NIL
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: NIL
OBS VA DTG: NIL
OBS VA CLD: NIL
FCST VA CLD +6HR: NO VA EXP
FCST VA CLD +12HR: NO VA EXP
FCST VA CLD +18HR: NO VA EXP
RMK: VAAC DARWIN AND VAAC TOKYO ARE CONDUCTING A BACK UP TEST NOW.
THIS IS A TEST NOTICE ISSUED BY VAAC TOKYO FOR THE VAAC TOKYO AREA
OF RESPONSIBILITY ANNOUNCING THE END OF TEST FOR VAAC TOKYO BY VAAC
DARWIN.
NXT ADVISORY: NO FURTHER ADVISORIES.

(***** Indicates appropriate AFTN addresses as per Attachment 2B)

ATTACHMENT 2A

AFTN addresses for exchange of VAAC back-up test VAA messages in the VAAC Darwin area of responsibility

YPDMMYX (VAAC Darwin)						
AGGHYMYX	ANYNYOYX	AYPMYMYX	AYPMYSYX	AYPMZGZX	AYPYANGM	AYPYANGO
EGKKVIRW	EGLLSITV	EGZZMASI	EGZZMPAC	EGZZVANW	EHAMKLM D	EHAMKLMK
EHAMKLMW	ELLXCLXB	KDENXLDW	KJFKGTIW	KWBCYMYX	LOZZMMSS	LSZHSWRW
NFFNYPYX	NZAAANZO	NZKLYMYX	RJAAANAO	RJAAJALO	RJAANCAO	RJAAYMYX
RKSIYPYX	RPHIZRZX	RPLLYMYX	VCBIYMYX	VCBIZQZX	VHHHCPAO	VHHHYMYX
VOMFZQZX	VOMMYMYX	VTBBYPYX	VTBDYMYX	VTBSYMYX	VVGLYMYX	VVNBZRZX
VVTSYMYX	VVTSZRZX	VYYYYMYX	VYYYZQZX	WAAAYMYX	WAAAZQZX	WABBYMYX
WADDYMYF	WADDYMYX	WADDYOYX	WBFCZQZX	WBKKYMYX	WBSBYMYX	WIHHYMYX
WIIIIYMYX	WIIIZQZX	WMFCZQZX	WMKBYMYX	WMKBYWYX	WMKKMASD	WMKKYMYX
WPD LZTZX	WRRRYNYX	WSATYMYX	WSJCZRZX	WSSSSIAO	WSSSYMYW	WSSSYMYX
WSSSYZYX	WSZZMYR	YAMBZAZX	YAMBZGZA	YAMBZTZX	YBBBNCYM	YBBBVOZM
YBBBZRZA	YBBBZRZB	YBBBZRZG	YBBBZRZX	YMMLJSTX	YMMMZRZA	YMMMZRZB
YMMMZRZG	YMMMZRZX	YPDNZAZX	YPDNZGZA	YPDNZTZX	YPTNZAZX	YPTNZGZA
YPTNZTZX	YSSYQFAM					

Note: the above list of AFTN addresses is subject to validation and updates by States/units concerned (yellow highlighted information has been validated by States as of 15 October 2014)

ATTACHMENT 2B

AFTN addresses for exchange of VAAC back-up test VAA messages in the VAAC Tokyo area of responsibility

RJTDYMYX (VAAC Tokyo)					
EGZZMASI,	KWBCYMYX,	NFFNYPYX,	RCTPYMYX,	RCTPZQZX,	RJAAYMYX,
RJCGZQZX,	RJDGZQZX,	RJTDYMYX,	RJTGZQZX,	RKRRZQZX,	RKSIYMYX,
RORGZQZX,	RPHIZRZX,	RPLLYMYX,	UELLYMYX,	UELLZRZX,	UHHHYMYX,
UHHHZRZX,	UHMMYMYX,	UHMMYMYX,	UHMMZRZX,	UHPPZRZX,	UIIIYMYX,
UIIIZRZX,	VDPPYMYX,	VDPPZRZX,	VHHHYMYX,	VHKKZQZX,	VLVTYMYX,
VLVTZQZX,	VTBBYPYX,	VTBBYZYX,	VTBSYMYX,	VVGLYMYX,	VVNBZRZX,
VVTSZRZX,	WSSSYZYX,	YBBBYPYX,	ZBAAYMYX,	ZBHHZQZX,	ZBLAZQZX,
ZBPEZQZX,	ZBYNZQZX,	ZGCSZQZX,	ZGGGYMYX,	ZGKLZQZX,	ZGNNZQZX,
ZGZUZQZX,	ZHHHYMYX,	ZHWHZQZX,	ZJHKYMYX,	ZJSAZQZX,	ZKPYMYX,
ZKPYMYX,	ZLANZQZX,	ZLHWZQZX,	ZLSNZQZX,	ZLXYMYX,	ZMUBYMYX,
ZMUBZQZX,	ZPKMZQZX,	ZSAMZQZX,	ZSCNZQZX,	ZSHAZQZX,	ZSNJZQZX,
ZSOFZQZX,	ZSQDZQZX,	ZSSSYMYX,	ZSTNZQZX,	ZUCKZQZX,	ZUDSZQZX,
ZUUUYMYX,	ZWUQZQZX,	ZWWWYMYX,	ZWWWZQZX,	ZYHBZQZX,	ZYSHZQZX,
ZYTLZQZX,	ZYTXYMYX,				

Note: the above list of AFTN addresses is subject to validation and updates by States/units concerned (yellow highlighted information has been validated by States as of 15 October 2014)

ATTACHMENT 3

List of States, participating units and tasks required* for VAAC back-up test

STATE	UNIT TYPE	LOCATION NAME	LOC. ID.	TASK/S REQUIRED*	AFTN ADDRESS
AUSTRALIA	ACC/FIC	BRISBANE/BRISBANE INTL	YBBN	D	YBBBZRZA YBBBZRZB YBBBZRZG YBBBZRZX
AUSTRALIA¹	ACC/FIC	CAIRNS/CAIRNS INTL	YBCS	⊘	YBCSZQZX
AUSTRALIA¹	ACC/FIC	TOWNSVILLE/TOWNSVILLE INTL	YBTL	⊘	YBTLZQZX
AUSTRALIA¹	ACC/FIC	HOBART	YMHB	⊘	YMHZQZX
AUSTRALIA	ACC/FIC	MELBOURNE ACC/FIC	YMMM	D	YMMMZRZA YMMMZRZB YMMMZRZG YMMMZRZX
AUSTRALIA¹	ACC/FIC	ADELAIDE/ADELAIDE INTL	YPAD	⊘	YPADZQZX
AUSTRALIA¹	ACC/FIC	DARWIN/DARWIN INTL	YPDN	⊘	YPDNZQZX
AUSTRALIA¹	ACC/FIC	PERTH/PERTH INTL	YPPH	⊘	YPPHZQZX
AUSTRALIA¹	ACC/FIC	SYDNEY/SYDNEY (KINGSFORD SMITH) INTL	YSSY	⊘	YSSYZQZX
AUSTRALIA²	MWO	BRISBANE (REGIONAL FORECAST CENTRE)	YBRF	⊘	YBRFYMYX
AUSTRALIA²	MWO	HOBART (REGIONAL FORECASTING CENTRE)	YMHF	⊘	YMHFYMYX
AUSTRALIA²	MWO	MELBOURNE (WORLD MET CENTRE, BUREAU OF METEOROLOGY)	YMMC	⊘	YMMCYMYX
AUSTRALIA²	MWO	MELBOURNE (REGIONAL FORECAST CENTRE)	YMRF	⊘	YMRFYMYX
AUSTRALIA²	MWO	DARWIN (REGIONAL FORECASTING CENTRE)	YPRF	⊘	YPRFYMYX
AUSTRALIA²	MWO	PERTH (REGIONAL FORECASTING CENTRE)	YPRM	⊘	YPRFYMYX
AUSTRALIA²	MWO	SYDNEY (REGIONAL FORECASTING CENTRE)	YSRF	⊘	YSRFYMYX
AUSTRALIA	RODB	BRISBANE (FIR/FIC/ACC/COM/MET/NOF)	YBBB	D J	YBBBYPYX
AUSTRALIA	VAAC	DARWIN (REGIONAL FORECASTING CENTRE)	YPDM	A E F H I M	YPDYMYX
CAMBODIA	ACC/FIC	PHNOM PENH	VDPP	J	VDPPZRZX
CAMBODIA	MWO	PHNOM PENH	VDPP	J	VDPPYMYX
CHINA	ACC/FIC	TAIBEI CITY/TAIBEI INTL AP	RCTP	J	RCTPZQZX

STATE	UNIT TYPE	LOCATION NAME	LOC. ID.	TASK/S REQUIRED*	AFTN ADDRESS
CHINA	ACC/FIC	HONG KONG FIR	VHHK	J	VHHKZQZX
CHINA	ACC/FIC	HUHHOT/BAITA	ZBHH	J	ZBHHZQZX
CHINA	ACC/FIC	HULUNBEIER/HAILAR	ZBLA	J	ZBLAZQZX
CHINA	ACC/FIC	BEIJING FIR	ZBPE	J	ZBPEZQZX
CHINA	ACC/FIC	TAIYUAN/WUSU	ZBYN	J	ZBYNZQZX
CHINA	ACC/FIC	CHANGSHA CITY	ZGCS	J	ZGCSZQZX
CHINA	ACC/FIC	GUILIN/LIANGJIANG	ZGKL	J	ZGKLZQZX
CHINA	ACC/FIC	NANNING/WUXU	ZGNN	J	ZGNNZQZX
CHINA	ACC/FIC	GUANGZHOU FIR	ZGZU	J	ZGZUZQZX
CHINA	ACC/FIC	WUHAN FIR	ZHWH	J	ZHWHZQZX
CHINA	ACC/FIC	SANYA FIR/ACC	ZJSA	J	ZJSAZQZX
CHINA	ACC/FIC	LANZHOU CITY	ZLAN	J	ZLANZQZX
CHINA	ACC/FIC	LANZHOU FIR	ZLHW	J	ZLHWZQZX
CHINA	ACC/FIC	XI'AN CITY	ZLSN	J	ZLSNZQZX
CHINA	ACC/FIC	KUNMING FIR	ZPKM	J	ZPKMZQZX
CHINA	ACC/FIC	XIAMEN/GAOQI	ZSAM	J	ZSAMZQZX
CHINA	ACC/FIC	NANCHANG/CHANGBEI	ZSCN	J	ZSCNZQZX
CHINA	ACC/FIC	SHANGHAI FIR	ZSHA	J	ZSHAZQZX
CHINA	ACC/FIC	NANJING/LUKOU	ZSNJ	J	ZSNJZQZX
CHINA	ACC/FIC	HEFEI/XINQIAO	ZSOF	J	ZSOFZQZX
CHINA	ACC/FIC	QINGDAO/LIUTING	ZSQD	J	ZSQDZQZX
CHINA	ACC/FIC	JINAN CITY	ZSTN	J	ZSTNZQZX
CHINA	ACC/FIC	CHONGQING/JIANGBEI	ZUCK	J	ZUCKZQZX
CHINA	ACC/FIC	CHENGDU CITY	ZUDS	J	ZUDSZQZX
CHINA	ACC/FIC	URUMQI FIR	ZWUQ	J	ZWUQZQZX
CHINA	ACC/FIC	URUMQI/DIWOPU	ZWWW	J	ZWWWZQZX
CHINA	ACC/FIC	HARBIN/TAIPING	ZYHB	J	ZYHBZQZX
CHINA	ACC/FIC	SHENYANG FIR	ZYSH	J	ZYSHZQZX
CHINA	ACC/FIC	DALIAN/ZHOUSHUIZI	ZYTL	J	ZYTLZQZX
CHINA	MWO	TAIBEI CITY/TAIBEI INTL AP	RCTP	J	RCTPYMYX
CHINA	MWO	HONG KONG/INTERNATIONAL	VHHH	J	VHHHYMYX
CHINA	MWO	BEIJING/CAPITAL	ZBAA	J	ZBAAZQZX
CHINA	MWO	GUANGZHOU/BAIYUN	ZGGG	J	ZGGGYMYX
CHINA	MWO	WUHAN/TIANHE	ZHHH	J	ZHHHYMYX

STATE	UNIT TYPE	LOCATION NAME	LOC. ID.	TASK/S REQUIRED*	AFTN ADDRESS
CHINA	MWO	HAIKOU/MEILAN	ZJHK	J	ZJHKYMYX
CHINA	MWO	XI'AN/XIANYANG	ZLXY	J	ZLXYMYX
CHINA	MWO	SHANGHAI/HONGQIAO	ZSSS	J	ZSSSYMYX
CHINA	MWO	CHENGDU/SHUANGLIU	ZUUU	J	ZUUUYMYX
CHINA	MWO	URUMQI/DIWOPU	ZWWW	J	ZWWWYMYX
CHINA	MWO	SHENYANG/TAOXIAN	ZYTX	J	ZYTXMYX
DPR KOREA	ACC/FIC	PYONGYANG (FIR)	ZKKP	J	ZKPYYMYX
DPR KOREA	MWO	SUNAN	ZKPY	J	ZKPYYMYX
FIJI	RODB	NADI/INTL	NFFN	D J	NFFNYPYX
INDIA	ACC/FIC	CHENNAI (FIC)	VOMF	D	VOMFZQZX
INDIA	MWO	CHENNAI	VOMM	D	VOMMYMYX
INDONESIA	ACC/FIC	UJUNG PANDANG (FIC)	WAAF	D	WAAFZQZX
INDONESIA	ACC/FIC	MAKASSAR/SULTAN HASANUDDIN	WAAA	D	WAAAZQZX
INDONESIA	ACC/FIC	JAKARTA FIC	WIIF	D	WIIFZQZX
INDONESIA	ACC/FIC	JAKARTA INTL/SOEKARNO-HATTA	WIII	D	WIIIZQZX
INDONESIA	MWO	MAKASSAR/SULTAN HASANUDDIN	WAAA	D	WAAAYMYX
INDONESIA	MWO	JAKARTA INTL/SOEKARNO-HATTA	WIII	D	WIIIIYMYX
JAPAN	ACC/FIC	SAPPORO ACC	RJCG	J	RJCGZQZX
JAPAN	ACC/FIC	FUKUOKA ACC	RJDG	J	RJDGZQZX
JAPAN	ACC/FIC	TOKYO ACC	RJTG	J	RJTGZQZX
JAPAN	ACC/FIC	NAHA ACC	RORG	J	RORGZQZX
JAPAN	MWO	TOKYO (CITY)	RJTD	J	RJTDYMYX
JAPAN	RODB	TOKYO (CITY)	RJTD	D J	RJAAYMYX
JAPAN	VAAC	TOKYO (CITY)	RJTD	B C G K L M	RJTDYMYX
LAO PDR	ACC/FIC	VIENTIANE (WATTAY)	VLVT	J	VLVTZQZX
LAO PDR	MWO	VIENTIANE (WATTAY)	VLVT	J	VLVTYMYX
MALAYSIA	ACC/FIC	KOTA KINABALU ACC/FIC	WBFC	D	WBFCZQZX
MALAYSIA	ACC/FIC	KUALA LUMPUR ACC/FIC	WMFC	D	WMFCZQZX
MALAYSIA	MWO	SEPANG/KL INTERNATIONAL AIRPORT	WMKK	D	WMKKYMYX
MONGOLIA	ACC/FIC	ULAANBAATAR/CHINGGIS KHAAN	ZMUB	J	ZMUBZQZX
MONGOLIA	MWO	ULAANBAATAR/CHINGGIS KHAAN	ZMUB	J	ZMUBYMYX
MYANMAR	ACC/FIC	YANGON INTERNATIONAL	VYYY	D	VYYYZQZX
MYANMAR	MWO	YANGON INTERNATIONAL	VYYY	D	VYYYMYX
PAPUA NEW GUINEA	ACC/FIC	PORT MORESBY ACC/FIC/COM	AYPM	D	AYPMZGZX

STATE	UNIT TYPE	LOCATION NAME	LOC. ID.	TASK/S REQUIRED*	AFTN ADDRESS
PAPUA NEW GUINEA	MWO	PORT MORESBY INTL	AYPY	D	AYPYMYX
PAPUA NEW GUINEA	MWO	PORT MORESBY ACC/FIC/COM	AYPM	D	AYPMYMX
PHILIPPINES	ACC/FIC	MANILA (ACC/FIC/COM)	RPHI	D J	RPHIZRZX
PHILIPPINES	MWO	NINYO AQUINO INTERNATIONAL AIRPORT, MANILA	RPLL	D J	RPLLYMYX
REPUBLIC OF KOREA	ACC/FIC	INCHEON ACC	RKRR	J	RKRRZQZX
REPUBLIC OF KOREA	MWO	INCHEON INTL	RKSI	J	RKSIYMYX
RUSSIAN FEDERATION	ACC/FIC	CHULMAN	UELL	J	UELLZRZX
RUSSIAN FEDERATION³	ACC/FIC	BLAGOVESHCHENSK/IGNATYEVO	UHBB	J	UHBBZRZX
RUSSIAN FEDERATION	ACC/FIC	KHABAROVSK/NOVY	UHHH	J	UHHZRZX
RUSSIAN FEDERATION	ACC/FIC	MAGADAN/SOKOL	UHMM	J	UHMMZRZX
RUSSIAN FEDERATION	ACC/FIC	PETROPAVLOVSK-KAMCHATSKY/YELIZOVO	UHPP	J	UHPPZRZX
RUSSIAN FEDERATION³	ACC/FIC	YUZHNO-SAKHALINSK/KHOMUTOVO	UHSS	J	UHSSZRZX
RUSSIAN FEDERATION³	ACC/FIC	VLADIVOSTOK/KNEVICH	UHHW	J	UHHWZRZX
RUSSIAN FEDERATION³	ACC/FIC	CHITA/KADALA	UIAA	J	UIAAZRZX
RUSSIAN FEDERATION	ACC/FIC	IRKUTSK	UIII	J	UIIIZRZX
RUSSIAN FEDERATION	MWO	CHULMAN	UELL	J	UELLYMYX
RUSSIAN FEDERATION³	MWO	BLAGOVESHCHENSK/IGNATYEVO	UHBB	J	UHBBYMYX
RUSSIAN FEDERATION	MWO	KHABAROVSK/NOVY	UHHH	J	UHHHYMYX
RUSSIAN FEDERATION	MWO	MAGADAN/SOKOL	UHMM	J	UHMMYMYX
RUSSIAN FEDERATION	MWO	PETROPAVLOVSK-KAMCHATSKY/YELIZOVO	UHPP	J	UHPPYMYX
RUSSIAN FEDERATION³	MWO	YUZHNO-SAKHALINSK/KHOMUTOVO	UHSS	J	UHSSYMYX
RUSSIAN FEDERATION³	MWO	VLADIVOSTOK/KNEVICH	UHHW	J	UHHWYMYX
RUSSIAN FEDERATION³	MWO	CHITA/KADALA	UIAA	J	UIAAYMYX
RUSSIAN FEDERATION	MWO	IRKUTSK	UIII	J	UIIIYMYX
SINGAPORE	ACC/FIC	SINGAPORE ACC/FIC	WSJC	D	WSJCZRZX
SINGAPORE	MWO	SINGAPORE/CHANGI	WSSS	D	WSSSYMYX
SINGAPORE	RODB	SINGAPORE/CHANGI	WSSS	D J	WSSSYZYX
SOLOMON ISLANDS	ACC/FIC	HONIARA (HENDERSON)	AGGH	D	AGGHYMYX
SOLOMON ISLANDS	MWO	HONIARA (HENDERSON)	AGGH	D	AGGHYMYX
SRI LANKA	ACC/FIC	KATUNAYAKE/BANDARANAIKE INTERNATIONAL AIRPORT COLOMBO	VCBI	D	VCBIZQZX
SRI LANKA	MWO	KATUNAYAKE/BANDARANAIKE INTERNATIONAL	VCBI	D	VCBIYMYX

STATE	UNIT TYPE	LOCATION NAME	LOC. ID.	TASK/S REQUIRED*	AFTN ADDRESS
		AIRPORT COLOMBO			
THAILAND	ACC/FIC	BANGKOK (ACC/FIC/COM CENTRE)	VTBB	D J	VTBBYPYX
THAILAND	MWO	BANGKOK/SUVARNABHUMI INTL AIRPORT	VTBS	D J	VTBSYMYX
THAILAND	RODB	BANGKOK (ACC/FIC/COM CENTRE)	VTBB	D J	VTBBYPYX
UNITED KINGDOM	W AFC	UK PDAI (GEN)	EGZZ	D J	EGZZMASI
UNITED STATES	W AFC	WASHINGTON (NWS NATIONAL MET CENTER), DC.	KWBC	D J	KWBCYMYX
VIET NAM	ACC/FIC	HA NOI/NOI BAI INTERNATIONAL	VVNB	D J	VVNBZRZX
VIET NAM	ACC/FIC	HO CHI MINH/TAN SON NHAT INTERNATIONAL	VVTS	D J	VVTSZRZX
VIET NAM	MWO	GIA LAM	VVGL	D J	VVGLYMYX

Note: AFTN addresses in the table above are subject to validation and updates by States/units concerned (yellow highlighted information has been validated by States as of 15 October 2014)

- 1 In accordance with arrangements in Australia, the participating ACC/FICs are: BRISBANE and MELBOURNE
- 2 In accordance with the APAC regional air navigation plan, no Australian MWOs are required to participate because VAAC/MWO Darwin is designated to issue both the VAA and the SIGMET for volcanic ash for all Australian FIRs
- 3 In accordance with the EUR regional air navigation plan, the participating Russian Federation MWOs and ACC/FICs are: CHULMAN, IRKUTSK, KHABAROVSK/NOVY, MAGADAN/SOKOL and PETROPAVLOVSK-KAMCHATSKY/YELIZOVO