



International Civil Aviation Organization

**ICAO/WMO ASIA/PACIFIC METEOROLOGY/AIR TRAFFIC
MANAGEMENT (MET/ATM) SEMINAR**

Fukuoka, Japan, 24 – 26 January 2011

**Agenda Item 2: Meteorological impacts on ATM and MET information required for
Air Traffic Flow Management**

1) En-route – Large scale weather deviations, volcanic ash, etc.

SUPPORT TO METWARN/I TF IN DEVELOPING CONTINGENCY PLAN

(Presented by Secretariat MET/ATM TF)

SUMMARY

The purpose of this paper is to:

- (1) Provide States the opportunity to collate contingency contact information in one place (as per the attachments); and
- (2) Provide the Regional Office the information collected to support the development of a regional contingency plan.

This papers relates to:

Strategic Objectives:

- A. Safety – Enhance global civil aviation safety
- D. Efficiency – Enhance the efficiency of aviation operations

Global Plan Initiatives:

- GPI-18 Aeronautical Information
- GPI-19 Meteorological systems

1. INTRODUCTION

1.1 The Fourteenth Meeting of the Communications/Navigation/Surveillance and Meteorology Sub-group to APANPIRG (CNS/MET SG/14) adopted Decision 14/30 that calls on the Meteorological Advisories and Warnings Implementation Task Force (METWARN/I TF) to develop a framework of regional contingency plan for weather phenomenon that includes volcanic ash, tropical cyclone, radioactive cloud and Tsunami. The Terms of Reference of the METWARN/I TF provide a link to the Meteorology/Air Traffic Management Task Force (MET/ATM TF) in that the contact points provided in the contingency plan be attained by the latter.

2. DISCUSSION

State Contingency Plans

2.1 The user has expressed interest in providing a simple list of contacts in one location for ease of reference in case of an emergency. The contact template at **Attachment 1** provides contacts that would be derived from various documents, or easily accessed web links where known. Contact points include relevant Area Control Centre(s) (ACC), Volcanic Ash Advisory Centre(s) (VAAC), Tropical Cyclone Advisory Centre(s) (TCAC), and Meteorological Watch Office(s) (MWO) of those in and adjacent to your Flight Information Region (FIR) for use by the State/ANSP.

2.2 To facilitate filling out the attached contingency points of contact form, areas of responsibilities of VAAC and corresponding FIR (FASID Chart MET 2) and associated VAAC contact numbers are at **Attachment 2** for your reference. Note that the source of numbers is derived from Part 4 of the Handbook on the International Airways Volcano Watch (IAVW) Operational Procedures and Contact List (Doc 9766) and is located at the following link: <http://www2.icao.int/en/anb/met-aim/met/iavwopsg/IAV%20Handbook/Forms/AllItems.aspx>. Also note that only ten APAC States have listed their contact information (volcano observatory or authority if applicable, ACC and MWO for FIR) in Part 5 of the *Handbook on the International Airways Volcano Watch (IAVW) Operational Procedures and Contact List (Doc 9766)*.

2.3 VAAC London contact information is already provided in Attachment 1 since information on radioactive cloud is distributed from VAAC London to ACCs globally (in addition to Regional Specialized Meteorological Centres for further distribution by MWOs).

2.4 Likewise, area of responsibility of the TCACs and TCAC websites are at **Attachment 3** for your reference in filling out the forms.

2.5 **If your State already has such contact points, your State is invited to take this opportunity to review your contacts to be sure they are current.**

Regional Contingency Plans

2.6 In addition to updating and collating relevant contingency contacts, providing the ICAO Regional Office a list of these contact points would help in developing a master list for the Region which will be placed on the ICAO Regional Office website and contribute to a regional contingency plan.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Fill out contingency contact information for your State; and
- b) Submit information in a) to the Regional Office for consideration by the METWARN/I TF/1 meeting and CNS/MET SG/15 meeting in the development of regional contingency plans.

**Contingency Points of Contact form (for various Phenomena including volcanic ash,
tropical cyclone, tsunami and radioactive cloud)**

State: _____

Facility	Contact
ACCs	
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:

VAACs	
<p>VAAC London</p> <p>(disseminates radioactive cloud information to ACCs globally)</p>	<p>Name:</p> <p>Phone: Operational: +44 1392 884167 Administrative: +44 1392 886095</p> <p>Fax: Operational: +44 1392 884549 Administrative: +44 1392 884549</p> <p>AFTN: EGZZVANW</p> <p>Email: Operational: vaac@metoffice.gov.uk Administrative: nigel.gait@metoffice.gov.uk</p> <p>Homepage: http://www.metoffice.gov.uk/aviation/vaac/index.html</p>
	<p>Name:</p> <p>Phone: Operational: + Administrative: +</p> <p>Fax: Operational: + Administrative: +</p> <p>AFTN:</p> <p>Email: Operational: Administrative:</p> <p>Homepage:</p>
	<p>Name:</p> <p>Phone: Operational: + Administrative: +</p> <p>Fax: Operational: + Administrative: +</p> <p>AFTN:</p> <p>Email: Operational: Administrative:</p> <p>Homepage:</p>
TCACs	
	<p>Name:</p> <p>Phone:</p> <p>Fax:</p> <p>AFTN:</p> <p>Email:</p> <p>Homepage:</p>
	<p>Name:</p> <p>Phone:</p> <p>Fax:</p> <p>AFTN:</p> <p>Email:</p> <p>Homepage:</p>

MWOs	
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:
	Name: Phone: Fax: AFTN: Email: Homepage:

Note 1: In addition to distributing volcanic ash cloud information to parts of EUR/NAT Regions, VAAC London will distribute information on radioactive cloud to ACCs globally beginning 18 November 2010 and is thus included in the template

Note 2: If more entries are needed, please make a copy of the appropriate page

Note 3: Some information may not be applicable in the entries (e.g. there may not be a homepage for a specific MWO) and therefore would remain blank

**FASID CHART MET 2 – MAP OF AREAS OF RESPONSIBILITIES OF VAAC
AND CORRESPONDING FIR**

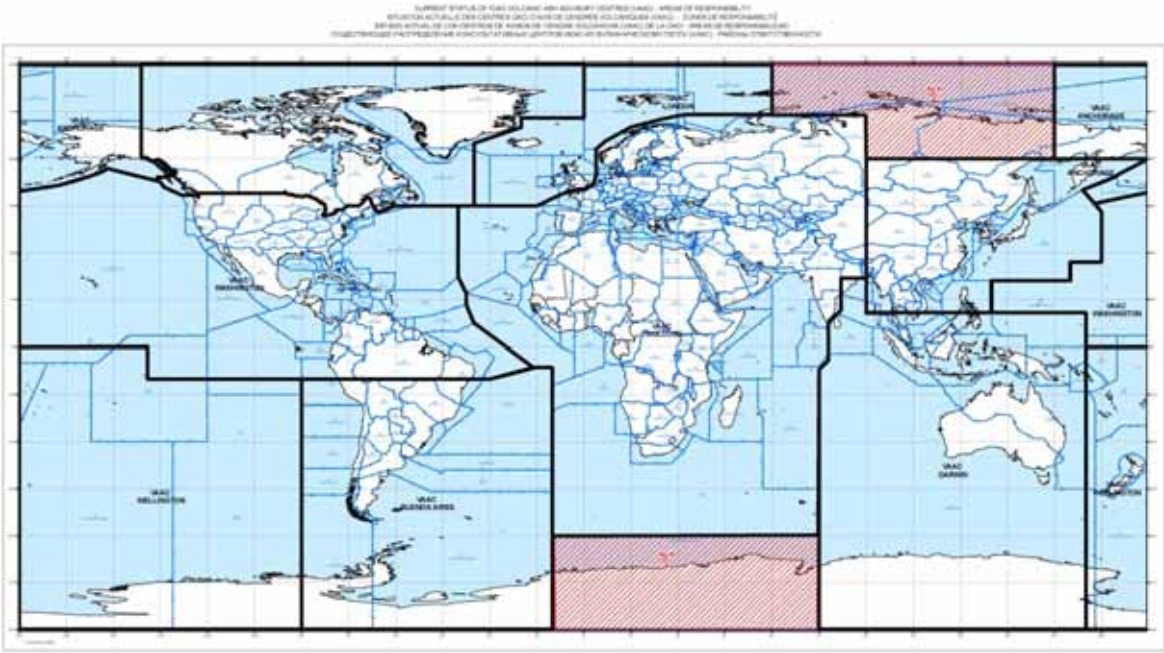


Table 4-2. VAAC contact numbers
(4.4.1 a) refers)

Note.— E-mail addresses are provided as back-up. Telephone/fax numbers should always be used first.

VAAC Anchorage

Tel.:	Operational	+1 (907) 266-5110
	Administrative	+1 (907) 266-5116
Fax:		+1 (907) 266-5169
AFTN:		via KWBCYMYX
E-mail:	Operational	a-vaac@noaa.gov
	Administrative	Tony.Hall@noaa.gov Eugene.M.Petrescu@noaa.gov Jeffrey.Osiensky@noaa.gov
Homepage:		http://vaac.arh.noaa.gov http://aawu.arh.noaa.gov

VAAC Buenos Aires

Tel.:	Operational	+(54 11) 5167 6767, Ext. 18238/18233/18103
	Administrative	+(54 11) 5167 6705 +(54 11) 5167 6767, Ext. 18235 +(54 11) 5167 6707 +(54 11) 5167 6709
Fax:		SAZZMAMX
AFTN:		
E-mail:	Operational	vmsr@smn.gov.ar bue.vaac@smn.gov.ar sovaacbue@smn.gov.ar
	Administrative	metaer@smn.gov.ar cbenitez@smn.gov.ar
Homepage:		http://www.ssd.noaa.gov/ VAAC/OTH/AG/messages.html

VAAC Darwin

Tel.:	Operational	+61 (8) 8920 3830 (PABX)
		+61 (8) 8927 9189 (direct)
	Administrative	+61 (8) 8920 3867
Fax:		+61 (8) 8920 3829
AFTN:		YPDMYMYX
E-mail:	Operational	darwin.vaac@bom.gov.au
	Administrative	darwin.vaac.admin@bom.gov.au
Homepage:		http://www.bom.gov.au/info/vaac/

VAAC London

Tel.:	Operational	+44 1392 884167
	Administrative	+44 1392 886095
Fax:	Operational	+44 1392 884549
	Administrative	+44 1392 884549
AFTN:		EGZZVANW
E-mail:	Operational	vaac@metoffice.gov.uk
	Administrative	nigel.gait@metoffice.gov.uk
Homepage:		http://www.metoffice.gov.uk/aviation/vaac/index.html

VAAC Montreal

Tel.:	Operational	+1 (514) 421 4635
	Administrative	+1 (514) 421 4704
Fax:	Operational	+1 (514) 421 4639
	Administrative	+1 (514) 421 4679
AFTN:		CWAOYMYU
E-mail:	Operational	vaac@ec.gc.ca
	Administrative	rene.servranckx@ec.gc.ca
		dov.bensimon@ec.gc.ca
Homepage:		http://meteo.gc.ca/eer/vaac/index_e.html

VAAC Tokyo

Tel.:	Operational	+81 (3) 3212 6203
	Administrative	+81 (3) 3284 1749
Fax:		+81 (3) 3212 6446
AFTN:		RJTDYMYX
E-mail:	Operational	vaac@eqvol2.kishou.go.jp
	Administrative	vaac-adm@eqvol2.kishou.go.jp
Homepage:		http://ds.data.jma.go.jp/svd/vaac/data/index.html

VAAC Toulouse

Tel.:	Operational	+33 (5) 61 07 82 30 or 07 85 10
	Administrative	+33 (5) 61 07 82 37/82 39
Fax:	Operational	+33 (5) 61 07 82 54
	Administrative	+33 (5) 61 07 82 09
AFTN:		LFPWYMYX or LFPWYMCR
E-mail:	Operational	vaac@meteo.fr
	Administrative	philippe.husson@meteo.fr
Homepage:		http://www.meteo.fr/vaac/

VAAC Washington

Tel.:	Operational	+1 (301) 763-8444/8298
	Administrative	+1 (301) 763 8444
Fax:		+1 (301) 763 8333/8592
AFTN:		KWBCYMYX
E-mail:	Operational	w-vaac@noaa.gov
	Administrative	Grace.Swanson@noaa.gov
	Additional information	davida.streett@noaa.gov
Homepage:		http://www.ssd.noaa.gov/VAAC/

VAAC Wellington

Tel	Operational	+64 (4) 470 0816 (24/7 helpline)
	Administration	+64 (4) 470 0731
Fax		+64 (4) 470 0801
AFTN		NZKLYMYX
Email	Operational	vaac@metSERVICE.com
	Administration	marcel.roux@metSERVICE.com
	Additional information	ray.thorpe@metSERVICE.com
Homepage		http://vaac.metSERVICE.com/

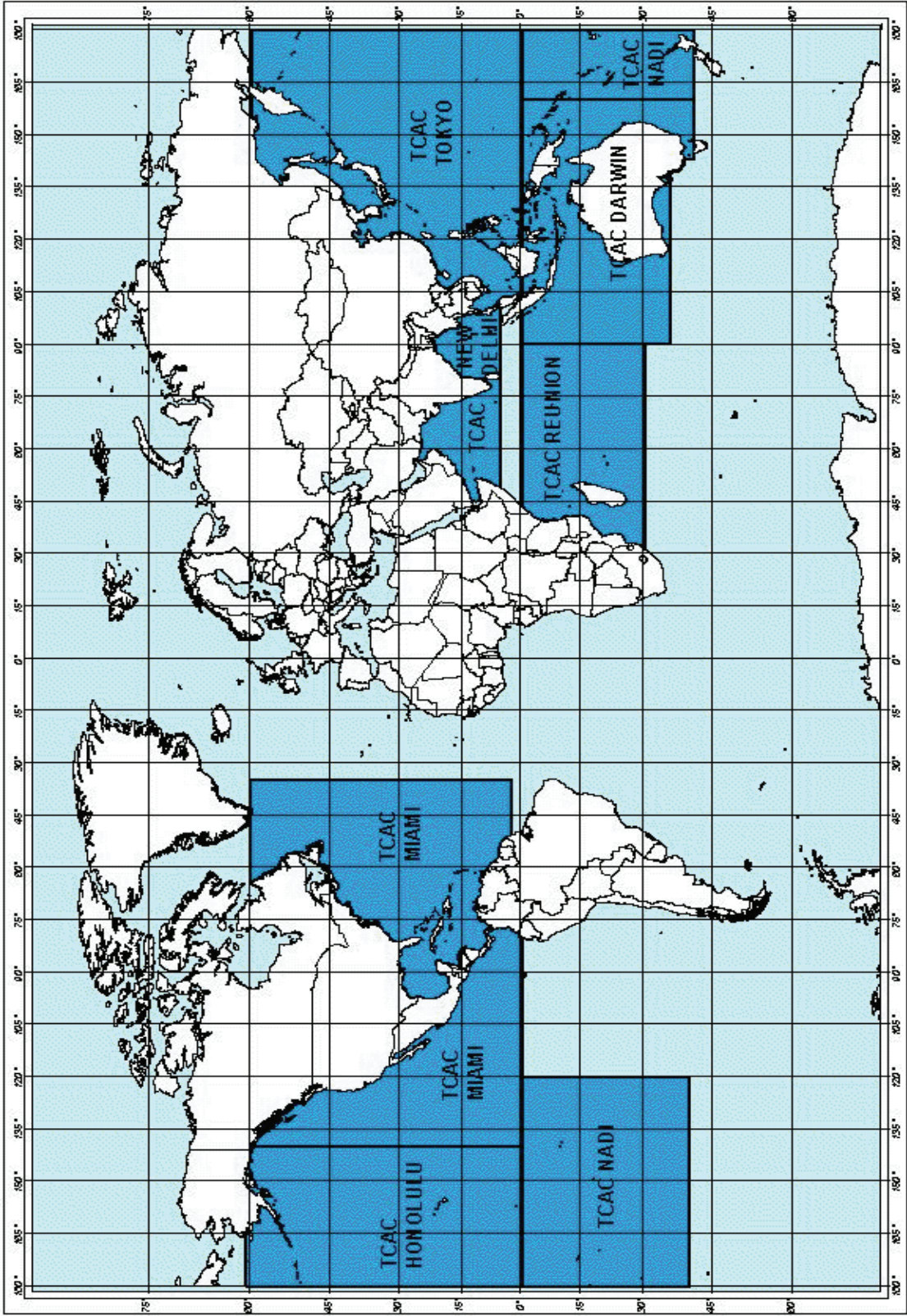
Effective: 14-Jan-2011

To be included in the Handbook on IAVW, Table 4-2

FASID CHART MET 1 - AREAS OF RESPONSIBILITY OF THE TCACs

CURRENT STATUS OF ICAO TROPICAL CYCLONE ADVISORY CENTRES (TCACs) - AREAS OF RESPONSIBILITY
SITUATION ACTUELLE DES CENTRES D'AVIS DE CYCLONES TROPICAUX (TCAC) OACI - ZONES DE RESPONSABILITÉ
SITUACIÓN ACTUAL DE LOS CENTROS DE AVISOS DE CICLONES TROPICALES, OACI (TCAC) - ZONAS DE RESPONSABILIDAD

FASID Chart/Mapa FASID MET 2



Tropical Cyclone Advisory Centre websites

This list was adapted from the World Meteorological Organization website:

<http://www.wmo.int/pages/prog/www/tcp/Advisories-RSMCs.html>

to include a contact page (second web address line), where available, to assist in retrieving the relevant TCAC contact information for your FIR.

List of Tropical Cyclone RSMCs

Caribbean Sea, Gulf of Mexico, North Atlantic and eastern North Pacific Oceans:
RSMC Miami-Hurricane Center/NOAA/NWS National Hurricane Center, USA.

<http://www.nhc.noaa.gov/index.shtml>

<http://www.nhc.noaa.gov/contact.shtml>

Western North Pacific Ocean and South China Sea:

RSMC Tokyo-Typhoon Center/Japan Meteorological Agency.

<http://www.jma.go.jp/en/typh/>

(may need to request generic email address and/or contact information)

Bay of Bengal and the Arabian Sea:

RSMC-tropical cyclones New Delhi/India Meteorological Department.

<http://www.imd.gov.in>

http://www.mausam.gov.in/WEBIMD/cyclone_contact.jsp

South-West Indian Ocean:

RSMC La Réunion-Tropical Cyclone Centre/Météo-France

http://www.meteo.fr/temps/dontom/La_Reunion/

http://www.meteo.fr/temps/dontom/La_Reunion/webcmrs9.0/anglais/index.html

South-West Pacific Ocean:

RSMC Nadi-Tropical Cyclone Centre/Fiji Meteorological Service

<http://www.met.gov.fj/>

http://www.met.gov.fj/fms_contacts0.htm

Central North Pacific Ocean:

RSMC Honolulu-Hurricane Center/NOAA/NWS, USA.

<http://www.prh.noaa.gov/hnl/cphc/>

(contact us is on left side of screen)

List of TCWCs with Regional Responsibility

South-East Indian Ocean:

Coral Sea:

Solomon Sea and Gulf of Papua:

Tasman Sea:

Arafura Sea and the Gulf of Carpentaria:

TCWC-Darwin/Bureau of Meteorology, Australia

<http://www.bom.gov.au/weather/cyclone>

<http://www.bom.gov.au/inside/contacts.shtml>

(not sure if the office should be indicated – northern territory)