VOLPHIN 16/02

PHILIPPINES

PREPARATIONS FOR VOLCANIC ASH EXERCISE

EXERCISE DIRECTIVE

▶ Exercise Volcano : **TAAL VOLCANO (273070)**

   N1400 E12100

▶ Exercise Leader: **MR. KOICHIRO KAKIHARA,**

   Senior Coordinator for International Aeronautical

   Meteorology, Japan Meteorological Agency (JMA)

▶ Exercise (in-State)

   Co-Leader: **MR. MICHAEL E. MAPANAO**

   Assistant Director General I,

   Air Traffic Service, Civil Aviation Authority of

   the Philippines

▶ Exercise Date & Time : **xx August 2016, 0000-0500UTC**

▶ Exercise Duration: **Five (5) Hours**

OVERALL OBJECTIVE

The overall objective of the exercise is to maintain enhanced safety, regularity and efficiency of aviation in the event of a volcanic eruption by demonstrating the provision and exchange of volcanic ash information in support of flexible airspace management, improved situational awareness and collaborative decision making, and dynamically-optimized flight trajectory planning.

SPECIFIC OBJECTIVES

In particular, the exercise aims to demonstrate the practice of applicable global and regional procedures related to volcanic activity and volcanic ash, including:

a) Distribution of alerts (e.g., VONA)
b) Distribution of AIS and MET messages (e.g., VAA/VAG, SIGMET, NOTAM, AIREP)
c) Responses by air traffic control and air traffic flow and capacity management units and aircraft operators (e.g., safety risk assessments, tactical re-routes)
d) Enhanced situational awareness and CDM (e.g., via a teleconference, website, or other media)

PARTICIPATING AGENCIES

The agencies below agreed to participate in the exercise:

Area of responsibility	Agency	Unit/Division
Volcanic activity alerting	PHIVOLCS	VO Taal
Volcanic ash advisory information	JMA	VAAC Tokyo
SIGMET Information	PAGASA	MWO Manila
	HKO	MWO Hong Kong
	JMA	MWO Tokyo
Air Traffic Control	CAAP	ACC Manila
	CAD	ACC Hong Kong
	JCAB	ATMC Fukuoka
Air Traffic Flow and Capacity Management	CAAP	ACC Manila
	CAD	ACC Hong Kong
	JCAB	ATMC Fukuoka
Aeronautical Information Service	CAAP	AIS - Operations
Aircraft Operator Response	IFALPA	Asia East
	Thai Airways	
	Philippine Airlines	
	Cebu Pacific	
Regulation	CAAP	Aerodrome and Air Navigation Safety Oversight Office
Exercise coordination	ICAO	Asia and Pacific Office

The agencies below will be observing during the exercise:

| Area of responsibility	Agency	Unit/Division
Volcanic Activity Alerting	CVGHM	Western Office
Volcanic Ash Advisory Information	BoM	VAAC Darwin
	Met Service	VAAC Wellington
SIGMET Information	TMD	MWO Bangkok
	BMKG	MWO Jakarta
	BMKG	MWO Ujung Bandung
Air Traffic Control	DCA	ACC Malaysia
	DGCA	ACC Indonesia
	BMKG	VO Indonesia
	CAAS	ACC Singapore
	Airnav	ACC Jakarta
	Airnav	ACC Ujung Bandung
Air Traffic Flow and Capacity Management	DCA	ACC Malaysia
	DGCA	ACC Indonesia
	CAAS	ACC Singapore
	Airnav	ACC Jakarta
	Airnav	ACC Ujung Bandung
Aeronautical Information Service	JCAB	AIS - Operations
	Airnav	NOF - Jakarta
	MSS	Singapore RODB
Aircraft Operator Response	IFALPA	
	IATA	

EXERCISE SCENARIO

Eruption with volcanic ash cloud up to FL330 moving mainly to the northwest and northeast at 215 knots but also to impact ATS routes and airspace within Manila, Hong Kong and Fukuoka Flight Information Regions (FIRs).
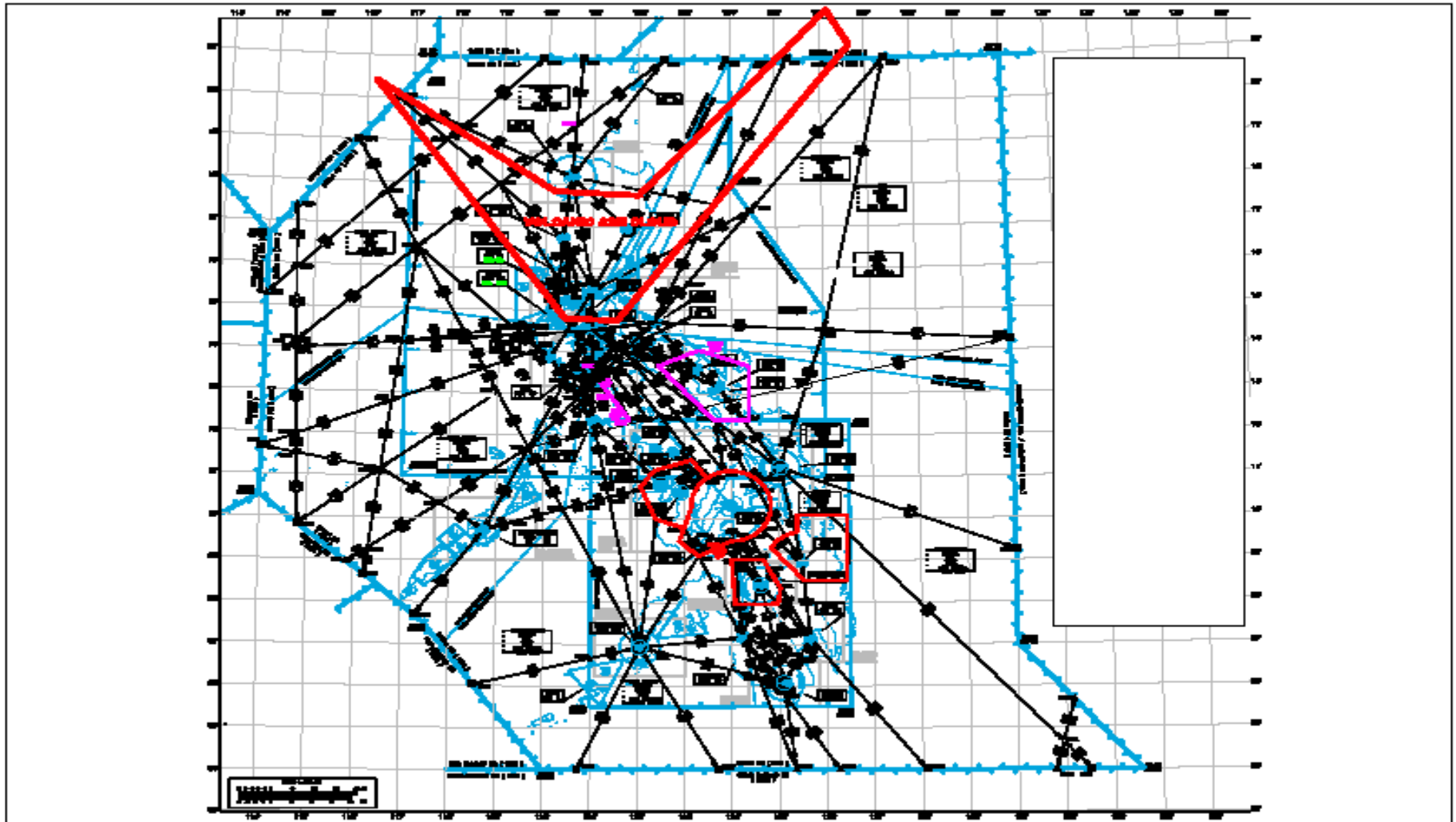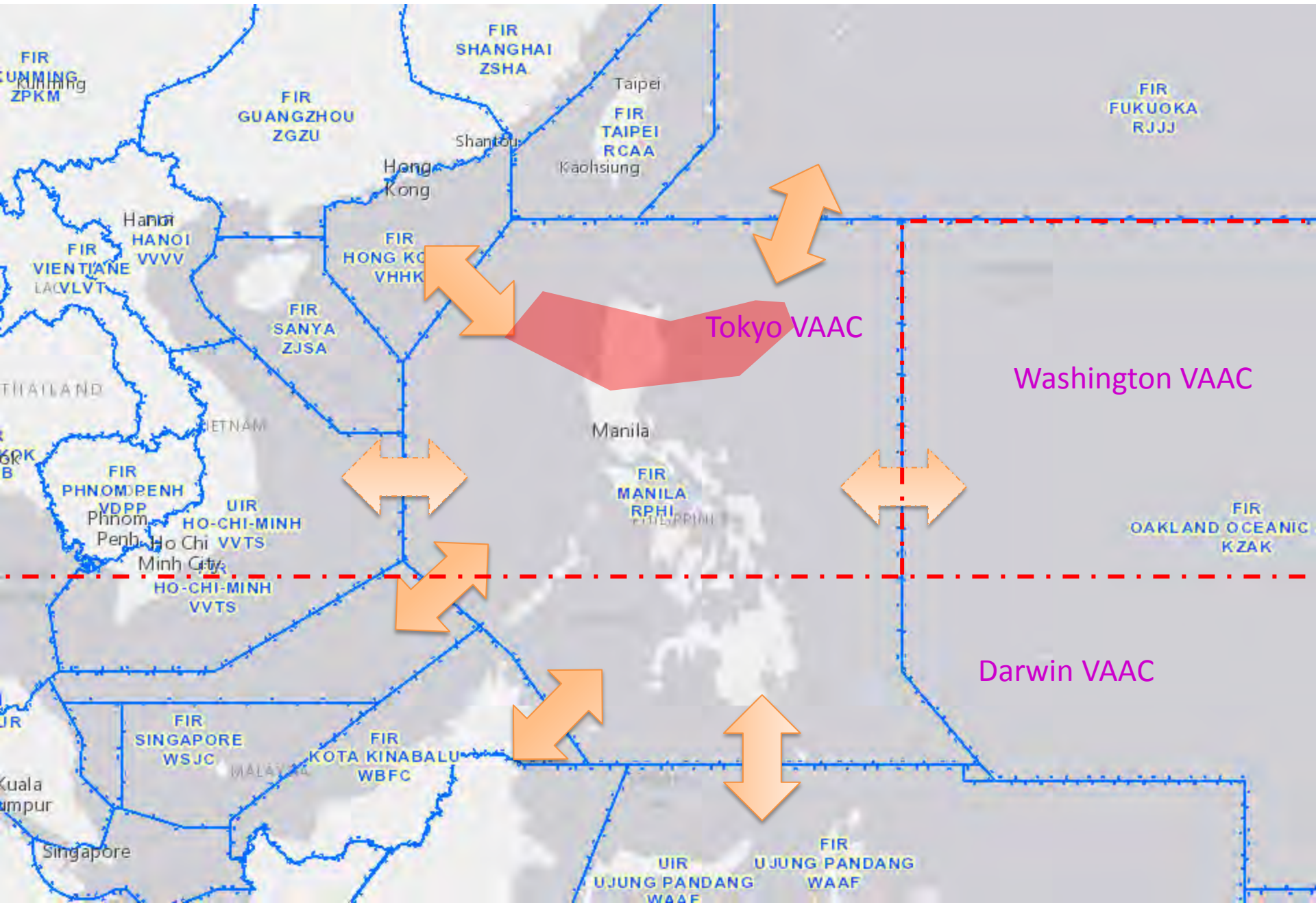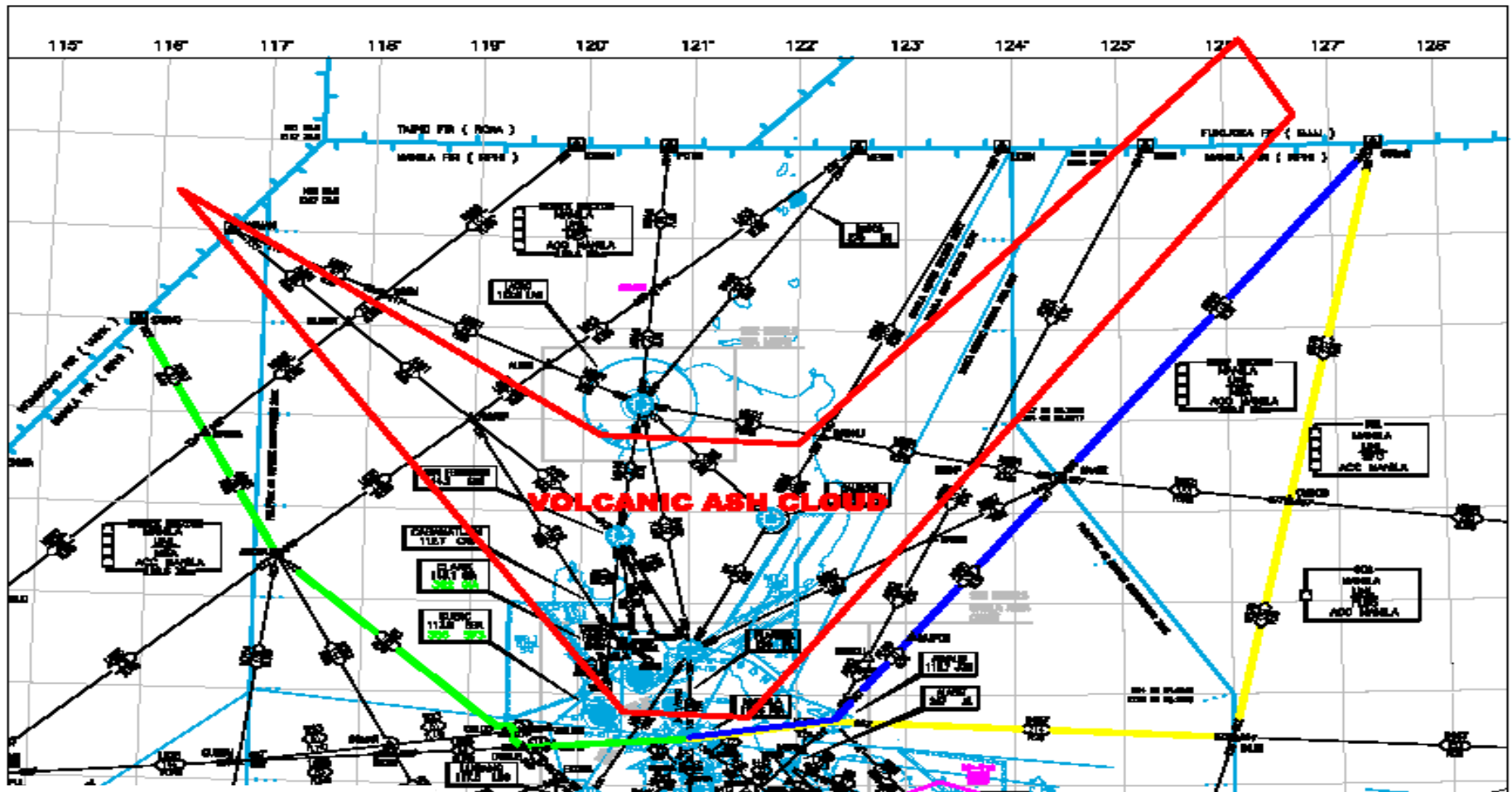
COORDINATION BETWEEN ANSPs

- ► Alternate routes to/from Manila FIR
- ► Air Traffic Flow Control Measures

AFTN ADDRESS LIST FOR NOTAM DISTRIBUTION

BRAVO NOTAM - GROUP ADDRESS

ANAUYFYX	LGZZNAXX	OPZZNAXX	UBBUYNYX	VIDPYNYX	WMKKYNYX
AYPMYNYX	LIZZNARP	OTZZNAZX	UGGGYNYX	VLAOYNYX	WMZZNAXX
AYPYYNYX	LLBGELXX	RCAAZQZX	UKKRYNYX	VLVTYOYX	WMZZNBXX
CYKFXNSD	LOWWYNYX	RCZZNMXX	UMMDYOYX	VMMCYNYX	WRRRYNYX
CYZZNPRN	LSZZNARP	RJTDYMYX	UTTTYNYX	VOMMYNYE	WSARYOYX
EDDFDLHX	NWWWYOYX	RJZZNLXX	UTTTYOYX	VOMMYNYX	WSJCZQZX
EDDZYNYX	NZZZNEUR	RKZZNKXX	UUUUYNYX	VTZZNAAX	WSSSYNYX
EGNNYNYX	OAKBYNYX	RPHIZDZX	UUZZNHNX	VVTSZQZX	YBBBZEZX
EGZZNRPL	OBZZNAXX	RPLCZTZX	UUZZNLNX	VVZZNAXX	YBZZNDMX
EHZZNTXX	OEDRZPZX	RPLLCAAP	VABBSVAO	VYZZNAXX	ZBBBYXYX
HSSSYNYX	OEJDYNYX	RPLLPALD	VABBSVAX	WAAZZQZX	ZBZZNHXX
KCNFYNYX	OERKZPZX	RPLLYRYA	VABBYNYE	WADDYOYE	ZJSCZQZX
KCOSXHJP	OKNOYNYX	RPNLUZON	VAZZNARP	WAMMYOYX	ZMUBYNYX
KDCAYNYX	OMZZNEXX	RPNVIMIN	VCZZNOAX	WBFCZQZX	ZSFZOIXX
KDENXHJP	OOMSYNYX	RPZZNANX	VECCYNYX	WBSBYOYX	ZSJNOIXX
KDZZNAXX	OOZZNDNX	SCSCYNYX	VHHHZQZX	WIIIYOYW	
LEZZNARP	OPKCYNYD	UAAKYNYX	VHZZNMXX	WIZZNRPL	

BRAVO NOTAM

SINGLE ADDRESSES

EGVCYOYX

UAAKYOYX

EGLISITX

EGLLBAWZ

LOZZNEAN

OTZZEADN

EHAMNOFX

ESSASASG

UMMDYNYX

EBSZYNYX

KCOSXHJP

YBBBZEZE

UKKRYNYX

Tokyo VAAC – RJTDYMYX
Darwin VAAC – YPDMYMYX
London VAAC - EGZZVANW

CHARLIE NOTAM

GROUP ADDRESSES

CYKFXNSD

KDCAYNYX

KDZZNAXX

LSZZNARP

RPHIZDZX

RPLCZTZX

RPLLCAAP

RPLLPALD

RPLLYRYA

RPNLUZON

RPNVIMIN

RPZZNANX

SINGLE ADDRESSES

UAAKYOYX

EGLLBAWZ

LOZZNEAN

OTZZEADN

ESSASASG

UMMDYNYX

KCOSXHJP

UKKRYNYX

Tasks to be accomplished during the meeting

- Finalize the scenario with the members of the group

- Discuss the details of teleconference

- Discuss the procedures in handling AIREP

- Update Appendix K using Table 1 of the Appendix A

- Discuss rerouting/diversion & ATFM measures

- Issuance of NOTAM – determine if necessary for rerouting/diversion and ATFM measures

Tasks to be accomplished after the meeting

- Appendix E-J

  -Templates for VONA , VAA, VAG. SIGMET, NOTAM and AIREP

- Appendix K (Detailed information about the participants)

- Appendix L (Detailed agenda and script for teleconferences

- Appendix M (abbreviation List of participating organizations)

- Determine the method of communication between ANSPs

- Determine the method of communication between ANSPs and AOs

- Finalize the available alternate routes and ATFM measures to be imposed

- Prepare AIC relevant to the exercise which will be issued approximately 1 month before the exercise

Thank you!