



International Civil Aviation Organization

**The Sixth Meeting of the APANPIRG ATM Sub-Group
(ATM/SG/6)**

Hong Kong, China, 30 July – 03 August 2018

Agenda Item 6: AOP, MET, AIM, SAR

ASIA PACIFIC VOLCANIC ASH EXERCISE (APAC VOLCEX 18/02)

(Presented by Indonesia)

SUMMARY

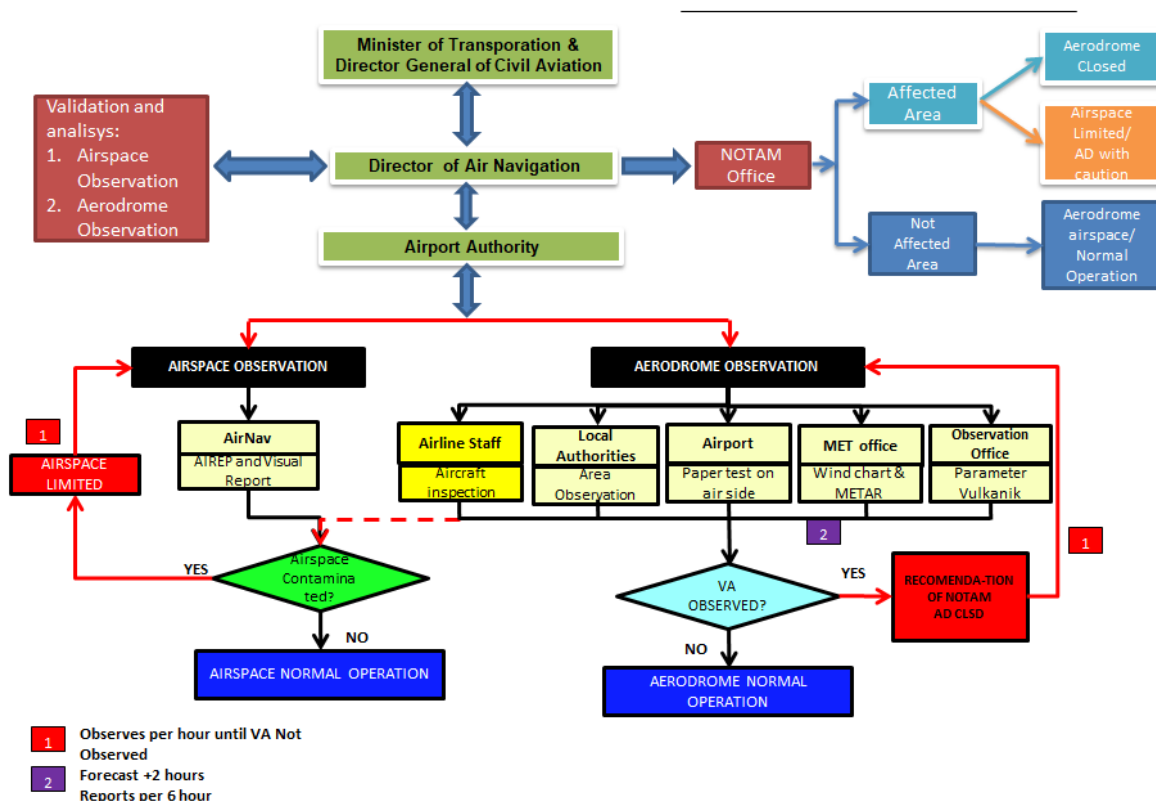
This paper presents information on the second ICAO APAC Volcanic Ash Exercise to be conducted in 2018, namely APAC VOLCEX 18/02, which will be held on 19-20 September 2018 and hosted by BMKG. It will involve the simulated eruption of a volcano in Indonesia affecting Indonesian, Singapore and Malaysian airspace. The simulated, high level volcanic ash cloud will contaminate three adjacent FIRs, Jakarta, Singapore and Kuala Lumpur; affecting major air traffic routes in Indonesia and between Indonesia, Singapore and Malaysia. Volcanic ash deposition will also be simulated at an aerodrome in Indonesia.

1. INTRODUCTION

- 1.1. The fifth meeting of the Asia/Pacific Volcanic Ash Exercise Steering Group (VOLCEX/SG/5) concluded that the second volcanic ash exercise in 2018 namely APAC VOLCEX 18/02 will be hosted by BMKG and held on 19-20 September 2018. The exercise will simulate Singgalang* Volcano (number: 261150) located in West Sumatera province and belongs to Jakarta FIR.
- 1.2. The meeting also considered that the main objectives of the next exercise should include (at least): demonstration of cross-boundary international coordination with respect to both provision of and responses to volcanic ash information (e.g., Darwin/Wellington VAACs, MWOs, NOFs, ATM/ATFM units, CDM processes); impacts on busy international flight corridor/s; simulation of 'real-time' operational responses to a volcanic event; demonstration of the requesting and dissemination of special air-reports of no-ash and consistent; and proper reference to the international volcano database.
- 1.3. Specific objectives of APAC VOLCEX 18/02:
 - a) Demonstrate flow of CDM process in accordance with Minister Decree number 108 year 2016 revision of CASR (Civil Aviation Safety Regulation) Part 174 Aeronautical Meteorological Information Services in the national scale, as displayed below; and
 - b) Examine the exchange of information related to volcanic ash activity would be on the website platform namely I-WISH.

APAC VOLCEX 18/02 - APPENDIX C

FLOW OF CDM PROCESS



2. DISCUSSION

Brief Planning on APAC VOLCEX 18/02

2.1. Exercise Volcano

Name: Singgalang* Volcano, **Number:** 261150, **Position:** S0039 E10033, **Area:** Indonesia

2.2. Exercise Scenario:

Simulated eruption with volcanic ash cloud up to FL400 moving Northeast at 25 - 40 knots to impact ATS routes and airspace within Jakarta FIR (WIIF), Indonesia, Singapore FIR (WSJC), and Kuala Lumpur FIR (WMFC), Malaysia, volcanic ash deposition at an aerodrome (Pekanbaru) in Indonesia and subsequent impacts for operations at other aerodromes (e.g. Padang, Pelalawan, Dumai, Bengkalis).

2.3. Exercise date and time (UTC):

The exercise will be conducted over a period of approximately eight (8) hours commencing 0050 UTC 20 September 2018

2.4. Pre-exercise coordination meeting:

Pre-exercise tele-conference/web-conference will be held on 19 July 2018 and 20 August 2018 to prepare initial requirements and needs of volcanic ash exercise. To be chaired by the Exercise Leader and supported by the ICAO Secretariat.

2.5. **Communications and Media:**

- a) Volcanic ash informations are disseminated through e-mail (e.g VONA, and Ground Observation report), AFTN (e.g SIGMET, NOTAM/ASHTAM, VAA/VAG, SPECI, Special air-report) website (e.g VAA/VAG, SIGMET) and instant message (e.g, Aerodrome Warning).
- b) During the exercise, tele-conference sessions involving all participating and observing agencies would be using I-WISH website platform and WebEx (secondary platform).

2.6. **Participating Agencies (Players):**

Area of responsibility	Agency	Unit/Division
Volcanic activity alerting	CVGHM	Head Office (Bandung)
Volcanic ash advisory information	BoM	VAAC Darwin
METAR/SPECI	BMKG	Pekanbaru Met Office and Padang Met Office
SIGMET	BMKG	MWO Jakarta
	MSS	MWO Singapore
	MMD	MWO Kuala Lumpur
Air Traffic Control	AirNav	ACC Jakarta
	CAAS	ACC Singapore
	CAAM	ACC Kuala Lumpur, airspace unit
	AirNav	APP Padang, TWR Padang, APP Pekanbaru, APP Medan
Air Traffic Flow and Capacity Management	AirNav	ATFM unit*
	CAAS	ATFM unit
Ground Observations at Airport	AP 2, DGCA	Padang Airport, Pekanbaru Airport (surrounding small airports, e.g. Pelalawan, Dumai, Bengkalis*)
		(Malaysia and/or Singapore airports)*
Aeronautical information service	AirNav	NOF Indonesia
	AirNav	Unit Cartography*
	CAAS	NOF Singapore, AIS unit
	CAAM	NOF Kuala Lumpur, AIS unit
Aircraft operator response	AirAsia Indonesia	OCC*
	(International airlines, TBD by IFALPA)*	
Regulation	DGCA Indonesia	Director of Air Navigation and Airport Authority (KOBV VI Padang and KOBV II Medan)
	(Malaysia and/or Singapore regulators)*	
Exercise coordination	ICAO	Asia and Pacific Office

2.7. Observing Agencies:

Area of responsibility	Agency	Unit/Division
Volcanic ash advisory information	JMA	VAAC Tokyo
SIGMET information	BMKG	MWO Ujung Pandang
	Hong Kong Observatory	MWO Hong Kong
	JMA	MWO Tokyo
METAR/SPECI and Aerodrome Warning	BMKG	Medan Met Office, Batam Met Office, Rengat Met Office, Tanjung pinang Met Office
ANSP	AirNav	ACC Ujung Pandang, AirNav Medan branch, AirNav Palembang branch (addition, if any, e.g. Batam, Silangit, Sibolga*), NOF Indonesia
	(Australia, PNG, etc)*	
Aircraft operator response	IFALPA*	Asia Pasific
	IATA	Indonesia
	(domestic and international airlines)*	
Airworthiness	Directorate of Airworthiness*	
Airport	Directorate of Airport*	BUBU Dumai, UPBU Rengat, UPBU Padang Sidempuan, UPBU Sibolga, UPBU Batam
	AP 2	AP 2 Medan, AP 2 Palembang, AP 2 Silangit*
	(Malaysia and/or Singapore)*	
Airport Authority	DGCA	KOBU I Jakarta (additional, if any*)
Investigation	KNKT*	KNKT Jakarta
Search and Rescue	BASARNAS*	Jakarta*
Military	TNI AU*	DISBANGOPS and KOHANUDNAS
Public Communication	PUSKOM*	Ministry of Transportation

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the information contained in this flimsy.