

*International Civil Aviation Organization*



ICAO

**WORKING PAPER**

**Seventh Meeting of the Asia and Pacific Volcanic Ash Exercises Steering Group (APAC VOLCEX/SG/7)**

Online, 14 December 2021

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**Agenda Item 3: Volcanic ash exercises/events debrief**

**APAC VOLCEX 19/02 EXERCISE REPORT**

(Presented by Philippines)

**SUMMARY**

This working paper details the report of the ICAO Volcanic Ash Exercise APAC VOLCEX 19/02 conducted on 12 September 2019, simulating the eruption Mt. Kanlaon.

**1. INTRODUCTION**

1.1 The second ICAO Asia Pacific (APAC) volcanic ash exercise for 2019, named APAC VOLCEX 19/02, simulated the eruption of Mt. Kanlaon located in the Philippines. The exercise was held from 0000 UTC – 0400 UTC 12 September 2019, as a tabletop exercise with participants joining from their own office/agency locations.

**2. DISCUSSION**

2.1 The full report of the APAC VOLCEX 19/02 is provided in this paper, including Appendices A and B, which contain lists of participants and exercise message exchanges.

2.2 The APAC VOLCEX 19/02 also highlighted the handover procedures between VAACs, in this particular simulation, handover procedures between VAAC Tokyo and VAAC Darwin.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) Note the information contained in this paper and exercise report; and
- b) Discuss any items as necessary.

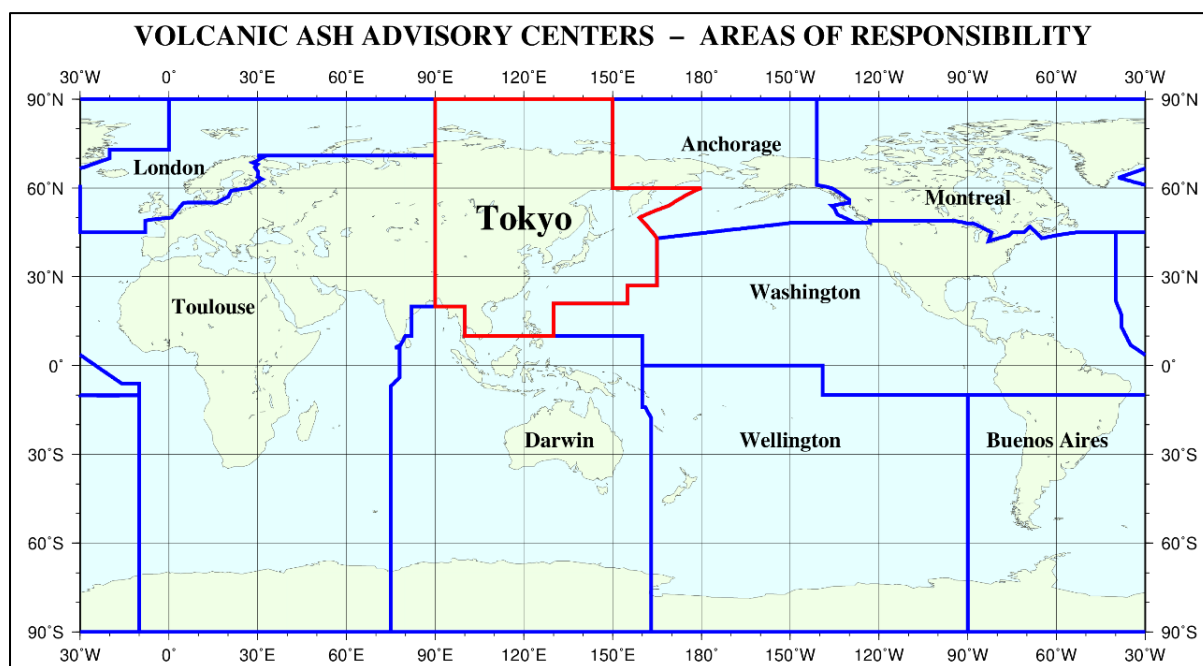
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**APAC VOLCEX 19/02 EXERCISE REPORT****I. INTRODUCTION**

- 1.1. “Volcanic ash exercises should be conducted by ICAO on a regional basis in order to practice and develop inter-agency response to volcanic activity, in order to maintain safety, regularity and efficiency of aviation in the event of a volcanic eruption”.<sup>1</sup>
- 1.2 The second ICAO Asia Pacific (APAC) volcanic ash exercise for 2019 (VOLCEX 19/02) was conducted on 12 September 2019 from 0000 UTC to 0400 UTC. APAC VOLCEX 19/02 simulated the eruption of Mt. Kanlaon volcano in the Philippines (1025N 12308E).
- 1.3 The simulated ash plume reached FL350, with ash cloud moving south triggering scenarios such as closure of Panglao and Dumaguete airports, air traffic service limitation particularly aerodrome control service, re-routing of air traffic traversing from Ujung Pandang FIR to Manila FIR, SIGMET exchange between PAGASA and Ujung Pandang, and advisories on domestic and major international routes.
- 1.4 The location of Mt. Kanlaon is in close proximity to the boundary of Tokyo and Darwin VAACs’ areas of responsibility, with Tokyo VAAC as the primary source of VAA information in the initial phase of the exercise. The southbound movement of volcanic ash triggered the conduct of handover procedures between Tokyo VAAC and Darwin VAAC, with the latter being the primary source of VAA information during the end part of the exercise. See figure below for VAAC Areas of Responsibility.

Source: [https://ds.data.jma.go.jp/svd/vaac/data/Inquiry/vaac\\_operation.html](https://ds.data.jma.go.jp/svd/vaac/data/Inquiry/vaac_operation.html)



<sup>1</sup> ICAO Doc 9766 – Handbook on the International Airways Volcano Watch, Appendix F- Guidance for Conducting Volcanic Ash Exercises in ICAO Regions

- 1.5 The exercise was led by the Civil Aviation Authority of the Philippines, with Mr. Ferdinand A. Tienzo as the exercise leader. Lead participants included PHIVOLCS for volcano observatory, VAACs Tokyo and Darwin, MWOs from Philippines and Ujung Pandang, ANSPs from Manila ACC and Ujung Pandang ACC, Philippine airlines as participant from the airline operator, and AIS NOTAM office of the CAAP. A list of participants and observers to the exercise is provided in **Appendix A**.

## 2. DISCUSSION

### PRE-EXERCISE PREPARATION

- 2.1 It was in 2016 when the Philippines last conducted a volcanic ash exercise. The framework of the VOLCEX 19/02 exercise directive was based on the VOLPHIN 16/02, with a much simplified content and scenario. The rationale was to focus on how to handle volcanic information from two VAACs. Since this is the first time the handover procedures will be observed by participants, the exercise leader opted for a simple scenario, while still being able to meet the objectives of the exercise.
- 2.2 The request for publication of Aeronautical Information Circular (AIC) was submitted by Manila ACC to the AIS NOTAM Office on 27 June 2019 and was published 19 July 2019. The general description of the event was detailed in the AIC stating the start and end of the exercise and contact details of the agencies directly involved in the exercise. The AIC also mentioned the terminologies and exercise templates to be used which would differentiate exercise messages from actual operational messages.
- 2.3 The draft exercise directive was disseminated to participants and observers. A final version of the directive was made available via the ICAO website on 10 September 2019.
- 2.4 The exercise NOTAM B3986/19 was published a week prior to the volcanic ash exercise to inform the aviation community of the upcoming tabletop simulation.
- 2.5 A stakeholders meeting was held in CAAP which included the attendance of PAGASA, PHIVOLCS, AIS NOTAM Office, ATFM CAAP, AANSOO as regulator, Philippine Airlines representative, Facility Chief of Manila ACC, exercise leader and directing staff. Discussions and clarifications on the exercise scenario were among the agenda of the meeting. Among the important matters discussed was the volcano number reference. Both Tokyo and Darwin VAACs used the Smithsonian database (271020), while PHIVOLCS used the Document 9691 Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds (Appendix F), database (0702-02). Even though the participants used different references, it was agreed that participants would take note of the two (2) reference numbers and understood during the exercise, these numbers both refer to Mt. Kanlaon.
- 2.6 A pre-exercise teleconference via WebEx was scheduled the day before the volcanic ash exercise to enable the participants to familiarize themselves with the platform and also if they had last-minute concerns or clarifications regarding the exercise.
- 2.7 After careful assessment, a GO decision was sent by the exercise leader to all participants and observers a day prior to the exercise. Information was sent thru email at around 0000 UTC 11 September 2019.

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EXERCISE TIMELINE

- 2.8 PHIVOLCS, Philippine volcano observatory, issued a VONA (1) at 0010 UTC announcing the eruption of Mt. Kanlaon at 0000 UTC. Dissemination was made thru fax and email. There was no aviation color assignment. The volcanic cloud height indicated FL350 drifting South. This is the initial advisory regarding the eruption.

**Identified Action 1:** As per PHIVOLCS, all the recipients in the mailing list were verified, except for Darwin VAAC. According to their fax report, they kept receiving busy tone on Darwin's side. Regular verifications of contact numbers must be done to ensure correctness and availability of all recipients in PHIVOLCS' mailing list.

- 2.9 At 0015 UTC, an initial VAA (P1) was issued by VAAC Tokyo via AFTN and email, containing the eruption details of M. Kanlaon. There was no aviation color code assignment and volcanic ash cloud height information, as volcanic ash was not yet observed from satellite imagery.

*In this document, 'P' shall refer to as 'Primary', while 'R' shall refer to as 'Rebroadcast'.  
The number shall refer to the sequence of the document/advisory issued in the exercise.*

- 2.10 An urgent and initial SIGMET (1) was sent by PAGASA thru AFTN and email at 0015 UTC. There was discrepancy on the volcanic ash cloud height in the content of initial SIGMET issued by PAGASA.

**Identified Action 2:** The value of the volcanic ash cloud height 'FL430' in the initial SIGMET (1) was not noticed by participants until after the exercise. The discrepancy was noted by the AIS NOTAM Office and was included in their post-exercise report. All documents should be carefully checked for errors.

- 2.11 At 0020 UTC, VAAC Darwin issued a re-broadcast of the VAA (R1) and VAG (R1) information based on VAAC Tokyo's initial advisory. Information was shared via AFTN and email. Under the remarks field were clear description of the nature of information contained in the VAA. This avoided confusion among the participants on which information to heed. At 0021 UTC, Tokyo and Darwin VAACs start discussion on eruption at Mt. Kanlaon. Both VAACs have agreed that Tokyo will be the primary VAAC for eruption and VAAC Darwin will rebroadcast the advisories.

- 2.12 At 0020 UTC, Manila ACC issued an urgent and initial NOTAM, using the received VAA (P1) from VAAC Tokyo and SIGMET (1) from PAGASA as document attachments. The AIPAF was forwarded to the AIS NOTAM Office for promulgation with 24-hour validity. The NOTAM did not contain information on air-routes affected. AIS NOF called Manila ACC regarding the typographical error in the AIPAF on time of eruption. The error was quickly rectified and NOTAM B4093/19 was promulgated.

**Identified Action 3:** The AIPAF issued by Manila ACC had a typographical error in time of eruption. Quick verification by AIS NOTAM Office made thru phone rectified the error in the form. All documents should be carefully checked for errors.

- 2.13 At 0040 UTC VAAC Tokyo issued second VAA (P2) and first VAG (P1) with ash cloud information and polygon, based on satellite imagery. There was no aviation color code assignment. Ash cloud reached FL350 with ash cloud moving south. It is noteworthy to mention that Manila ACC observed the polygon in the operational platform of the new air

traffic management system. Visualization and plans for tactical re-route was made easier for ANSPs because of this feature, which was not observed during the previous 2016 volcanic ash exercise.

- 2.14 At 0045 UTC Tokyo and Darwin VAACs conduct further discussions about ash now being visible on satellite imagery and ash extending into VAAC Darwin's area of responsibility.
- 2.15 At 0046 UTC VAAC Darwin issued a re-broadcast VAA (R2) and VAG (R2), based on VAAC Tokyo's advisory. Information was sent via AFTN and email.
- 2.16 At 0052 UTC PAGASA issued a second SIGMET (2) based on VAAC Tokyo's advisory via AFTN.
- 2.17 At 0103 UTC, Manila ACC issued a revision to the initial NOTAM B4093/19 promulgated, using VAA (P2) from VAAC Tokyo and SIGMET (2) from PAGASA as document attachments. Advisories on horizontal and vertical extent of volcanic ash cloud, ATS routes affected, and contingency routes were contained in the NOTAMR B4094/19, with 24-hour validity.
- 2.18 At 0121 UTC, Ujung Pandang ACC, via email, relayed transfer information to Manila ACC for mock flight PAL210X via common FIR boundary PEDNO 0215 FL340 squawk code 2610. Manila ACC then confirmed the transfer information by replying to the email.
- Note: Coordination for transfer information are normally done by ACCs thru direct-speech circuit or the use of hotlines. However, for the purpose of simulating such events during the volcanic ash exercise, the event was done thru email.*
- 2.19 At 0130 UTC, handover procedure between VAACs Tokyo and Darwin was initiated via email of handover request sheet. Both VAACs agreed to handover for the 12/0300 UTC advisory. VAAC Tokyo agreed to issue one last advisory.
- 2.20 AT 0137 UTC Ujung Pandang ACC, via email, relayed transfer information to Manila ACC for mock flights QFA20X via common FIR boundary SELSO 0300 FL340 squawk code 2712, and CEB040X via common FIR boundary SADAN 0245 FL300 squawk code 2614 . Manila ACC then confirmed the transfer information by replying to the email.
- Note: Transfer information are normally done thru direct-speech circuit or the use of hotlines. However, for the purpose of simulating coordination in the volcanic ash exercise, the event was done thru email.*
- 2.21 At 0141 UTC, Panglao airport manager sent AIPAF request form to AIS NOF for promulgation. NOTAM B4095/19 was issued regarding closure of RPSP (Panglao) airport.
- Note: RPSP is a CAAP managed airport. The decision to close the airport is with the airport authority represented by the airport manager, based on the risk assessment procedure.*
- 2.22 At 0146 UTC, as a response to the aerodrome closure, the supervisor-on-duty at Panglao (RPSP) tower forwarded AIPAF request for suspension of air traffic service for RPSP aerodrome control tower. NOTAM B4096/19 was promulgated.
- 2.23 At 0150 UTC, PHIVOLCS issued a second VONA (2) stating eruption has stopped. Information was disseminated thru fax and email.

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- 2.24 At 0200 UTC, VAAC Tokyo issued last VAA (P3) and VAG (P2) with updated details on horizontal and vertical information on volcanic ash. In the remarks field, in plain language, was the announcement of transfer of responsibility to VAAC Darwin. At 0300 UTC, recipients were to expect succeeding VA advisories from VAAC Darwin.
- 2.25 At 0206 UTC, VAAC Darwin issued a re-broadcast VAA (R3) and VAG (R3) based on VAAC Tokyo's advisory.
- 2.26 At 0206 UTC, VAAC Tokyo handed over responsibility of ash cloud to VAAC Darwin as stated in the VAAs. VAAC Darwin is now the primary VAAC for Mt. Kanlaon ash cloud.
- 2.27 At 0207 UTC, Manila ACC via email, relayed to Ujung Pandang ACC re-routing to inbound flights previously transferred to Manila, due to presence of volcanic ash. Ujung Pandang acknowledged via email.
- 2.28 At 0207 UTC, SIGMET (3) was issued by PAGASA based on Tokyo VAAC's last advisory.
- 2.29 At 0209, Dumaguete airport manager forwarded AIPAF request form to AIS NOF for promulgation. NOTAM C0609/19 was issued regarding closure of RPVD (Dumaguete) airport.
- Note: RPVD is a CAAP managed airport. The decision to close the airport is with the airport authority represented by the airport manager, based on the risk assessment procedure.*
- 2.30 At 0215 UTC, SIGMET (2) was issued by Ujung Pandang MWO for ash expected in their FIR.
- 2.31 At 0215, special air report was received from mock flight GAP2543X. Information was sent to Manila ACC via email. After receiving information, Manila ACC then forwarded to PAGASA, also via email, following the recommended format for ARS.
- Note: Pilot's special air-reports are normally done either via broadcast over the frequency or via datalink. However, for the purpose of simulating such events during the volcanic ash exercise, the event was done thru email.*
- 2.32 At 0216 UTC, as a response to the aerodrome closure, the supervisor-on-duty at Dumaguete (RPVD) tower forwarded AIPAF request for suspension of air traffic service for RPVD aerodrome control tower. NOTAM C0610/19 was promulgated.
- 2.33 At 0217 UTC, PAGASA and Ujung Pandang MWO exchange messages regarding advisory on volcanic ash entering Ujung Pandang FIR within six (6) hours. Message exchange is done thru the JMA platform.
- 2.34 At 0220 UTC, Ujung Pandang MWO informed PAGASA regarding error on SIGMET (3) by PAGASA. PAGASA rectified the error, but it took them some time to crop the polygon so as not to encroach Ujung Pandang FIR.
- 2.35 At 0224 UTC, Ujung Pandang ACC, via email, revised the previous transfer information and delivered re-routing to flights inbound Manila FIR. Manila ACC immediately acknowledged the updated transfer information from Ujung Pandang ACC, also via email exchange.
- 2.36 At 0228 UTC, ARS was sent by PAGASA via AFTN, based on special air report of mock flight GAP2543X.

- 2.37 At 0242, Manila ACC issued a revision to NOTAM B4094, using VAA (P3) from VAAC Tokyo and SIGMET (3) from PAGASA as document attachments. Updated advisories on horizontal and vertical extent of volcanic ash cloud, ATS routes affected, and contingency routes were contained in the NOTAMR B4098/19, with 24-hour validity.
- 2.38 At 0300 UTC, VAAC Darwin, as now responsible for issuing volcanic ash cloud information, issued first advisory VAA (P4) and VAG (P4). No aviation color code was provided, firstly because the volcano is in VAAC Tokyo's area of responsibility. Secondly, there was no aviation color code provided in the VONAs. The state volcano observatory usually provides this information, thus VAAC Darwin had no idea on the status of the volcano. The volcano was not erupting, but there was no information about the current state or probability of further eruptions. There was difficulty in making the assessment, so VAAC Darwin continued with "NIL" aviation color code.
- 2.39 At 0306 UTC mock flight GAP2543X informed Manila ACC holding over waypoint NANAS and request clearance back to Manila due to volcanic ash. Request was made via email.
- 2.40 At 0308 UTC, VAAC Tokyo issued re-broadcast VAA (R4) of VAAC Darwin's advisory.
- 2.41 At 0309 UTC, Manila delivered ATC clearance GAP2543X for Manila (RPLL). Reply was sent via email.
- 2.42 At 0315 UTC, Ujung Pandang MWO issued SIGMET (3) based on VAAC Darwin's advisory.
- 2.43 At 0319 UTC, Ujung Pandang MWO issued SIGMET (4) which is a cancellation of SIGMET (2).
- 2.44 At 0323 UTC, PAGASA issued SIGMET (4) based on VAAC Darwin's advisory.
- 2.45 At 0334 UTC, Manila ACC issued a revision to NOTAM B4098/19, using VAA (P4) from VAAC Darwin and SIGMET (4) from PAGASA as document attachments. Updated advisories on horizontal and vertical extent of volcanic ash cloud, ATS routes affected, and contingency routes were contained in the NOTAMR B4100/19, with 24-hour validity.
- 2.46 At 0359 UTC, Darwin VAAC issued final advisory VAA (P5) and VAG (P5), signaling the end of the exercise. In the next advisory field were plain text indicating, "NO FURTHER ADVISORIES".
- 2.47 At 0405 UTC, Ujung Pandang MWO issued SIGMET (5) which is a cancellation of SIGMET (4).
- 2.48 At 0413 UTC, PAGASA issued SIGMET (5) which cancels SIGMET (1).
- 2.49 At 0413 UTC, Manila ACC issued AIPAF for cancellation of NOTAM B4100/19. B4101/19 was promulgated.
- 2.50 At 0416 UTC, PAGASA issued SIGMET (6) which cancels SIGMET (2).

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- 2.51 At 0416 UTC, the airport manager of Panglao airport issued AIPAF for cancellation of NOTAM B4095/19. B4102/19 was promulgated signaling normal operations at Panglao (RPSP) airport.
- 2.52 At 0417 UTC, PAGASA issued SIGMET (7) which cancels SIGMET (3).
- 2.53 At 0418 UTC, PAGASA issued SIGMET (8) which cancels SIGMET (4).
- 2.54 At 0418 UTC, the supervisor-on-duty at Panglao aerodrome control tower issued AIPAF for cancellation of NOTAM B4096/19. NOTAM B4103/19 was promulgated signaling the resumption of aerodrome control service at Panglao (RPSP) aerodrome control tower.
- 2.55 At 0419 UTC, the airport manager of Dumaguete airport issued AIPAF for cancellation of NOTAM C0609/19. C0611/19 was promulgated signaling normal operations at Dumaguete (RPVD) airport.
- 2.56 At 0419 UTC, the supervisor-on-duty at Dumaguete aerodrome control tower issued AIPAF for cancellation of NOTAM C0610/19. NOTAM C0612/19 was promulgated signaling the resumption of aerodrome control service at Dumaguete (RPVD) aerodrome control tower.
- 2.57 The exercise teleconference was scheduled to commence at 0400 UTC. However, since some participants had to ensure all exercise related advisories had to be cancelled, the teleconference started a bit late. During the exercise teleconference, the participants commended everyone for a satisfactorily executing the exercise.
- 2.58 For a full list of exercise messages issued, see **Appendix B**

**SUMMARY OF ISSUES RAISED AND PROPOSED ACTION**

- 2.59 The participants should ensure that contacts list/distribution list for their product or advisory should be up to date. Regular checking should be done to maintain correct contact details.

**Identified Action 4:** Issue on volcano naming and numbering was brought up during the pre-exercise meeting with the stakeholders. Document 9691 Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds (Appendix F) refers to Mt. Kanlaon as 'Canlaon' with volcano number 702-02. The platform used by AIS NOTAM Office for ASHTAM issuance uses ICAO Document 9691 database. Although the issuance of ASHTAM was not observed in this volcanic ash exercise, it is worth mentioning that Mt. Kanlaon is spelled differently in Document 9691, thus it would have created an 'error' in the ASHTAM platform. The issue was discussed with PHIVOLCS as they are the Philippine volcano observatory.

**Identified Action 5:** Ujung Pandang ACC participants requested for a more complex scenario for the 'Coordination between Manila ACC and Ujung Pandang ACC'. The exercise leader took note and will consider improving the coordination scenario between ANSPs, particularly ACCs involved, in future exercises.

**Identified Action 6:** With reference to SIGMET cancellation, correct template should be used in the SIGMET content. PAGASA identified error in SIGMETs 5, 6, 7 and 8. 'CNL' should be used instead of 'CANCEL' when issuing SIGMET cancellation.

**Identified Action 7:** Both PAGASA and Manila ACC did not receive SIGMETs 2, 3, 4 and 5 issued by Ujung Pandang WMO. Exercise leader to confirm if RPHIZRZX and RPLLYMYX are in the mailing list.

EXERCISE OBSERVATIONS

- 2.60 Although ASHTAM templates were prepared for possible issuance during the exercise, it was not issued because the VAA did not contain 'aviation color code' information. If this field was left blank, it would have caused an 'error' in the ASHTAM platform for promulgation. Also as mentioned in Identified Action 4, Mt. Kanlaon was referred to as 'Canlaon' in the ASHTAM platform database. Manila ACC and AIS NOTAM Office have come up with a workaround procedure to address this database issue.
- 2.61 PAGASA followed the correct procedure in issuing corrected SIGMET in accordance with the Quick Reference for WV SIGMET, using the indicator CCA for the correction. This is in relation to SIGMET (3) issued by PAGASA, in which there was correction in the cropping of the polygon affected by volcanic ash.
- 2.63 Since there was no dedicated webpage for the exercise, updating other participating agencies was done thru the use of instant messaging apps and email, which proved to be very useful. Some agencies are considering using this message exchange platform for key contact persons during emergency situations.

**3. CONCLUSION**

- 3.1 APAC VOLCEX 19/02 proved to be very useful for all participants in practicing coordination among agencies involved. Vital information shall be relayed without delay to correct recipients. This exercise helped participants practice this, while finding room for improvement in the current system procedure. While minor errors have been made, agencies were quick to rectify those errors, thus making the exercise an overall success. The promulgation of the AIC, exercise NOTAM, information dissemination thru other media and the use of correct exercise templates also proved very useful. There was no confusion among airspace users and operators as exercise messages were correctly labeled as such.
- 3.2 This exercise was also the first to simulate hand-over procedures between two VAACs, particularly Tokyo and Darwin. The VAAs issued were very clear on which VAAC was the primary source of information and which VAAC was doing a re-broadcast. There was also clear indication on the VAA, the time in UTC, when the expected hand-over was to be executed. There was no confusion among participants which advisory to heed, which added to the success of the exercise.
- 3.3 Since the exercise proved to be very valuable for all agencies involved, participants are looking forward to more exercises in the future with different scenarios and more agencies involved.

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**APPENDIX A**  
List of Participants and Observers

**Table 1. Participants**

Area of Responsibility	State and Organization	Contact Name	Contact Position	Telephone/Fax Numbers	Email address/es
Exercise Leader	Philippines CAAP	Ferdinand A. TIENZO	Division Chief Enroute Control Division, Air Traffic Service	+639226480891	tienzoda@yahoo.com
VO	Philippines PHIVOLCS	Dr. Winchelle Ian SEVILLA	Supervising Science Research Specialist	+63 2 4261468	winch.sevilla@phivolcs.dost.gov.ph
VAAC	Japan JMA (VAAC Tokyo)	Yuichi IMAMURA		+81 3 3212 6203	y_imamura@met.kishou.go.jp vaac.tokyo@volash.kishou.go.jp
	Australia BoM (VAAC Darwin)	Dr. Jarrad DENMAN	En Route Aviation Services Manager		jarrad.denman@bom.gov.au
MWO	Philippines PAGASA (MWO Manila)	Hannagrace F. CRISTI	Chief, Aeronautical Meteorology Services Section Weather Division, PAGASA-DOST	+63 2 8522927	hannacristi@yahoo.com
				+63 2 8323023	piias@pagasa.dost.gov.ph
	Indonesia BMKG	Purwanto	Head of Data and Information Section, MWO Ujung Pandang	+628195523339	<a href="mailto:poer_11_to@yahoo.com">poer_11_to@yahoo.com</a> <a href="mailto:poer17to@gmail.com">poer17to@gmail.com</a>
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		Dofiali TRISNAKUSUMAWATI	Dwi Forecaster of MWO Ujung Pandang	+6281236830131	dofiali@gmail.com
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				+63 2 6727774	macc.supervisors@gmail.com
	Philippines CAAP (Dumaguete Tower)	Bernardo Elmerito F. ABLIR	Facility-In- Charge Dumaguete Aerodrome Control Tower	+639178244647	bernardoem@yahoo.com
Philippines CAAP (ATFMU, Manila)	Roger ISON	Chief, Air Traffic Flow Management Unit, Air Traffic Service	+63 2 9442239	atfmph@gmail.com	
	Indonesia AirNav (Ujung Pandang ACC)	Adwan LAMUDJI	Operation Deputy		adwan.lamudjidi@gmail.com
		Agung Dwi HANGGORO	Operation Manager		bonte_cogant@yahoo.com
		Akhmad ABDILLAH	First ATC		abdee_lah@hotmail.com
		Riswan RUDYARTHA	First ATC		riswanrudyartha@gmail.com
NOF, ANSP	Philippines CAAP (NOF)	Alice C. BAGOT		+63 2 6727785	phil.aisops@gmail.com ais@ats.caap.gov.ph

Airport Operations	Philippines CAAP	ATTY. Rafael A. TATLONGHARI	Acting Area Center Manager, Area VII	+639224647599	rffieldm@yahoo.com
		Mark M.A.P. DIAMAODEN	Manager, Dumaguete Airport	+639171582318	m_diamaoden@yahoo.com
		Dennis AURES	Acting Assistant Airport Manager, Panglao Airport	+639958092330	dennis_aures@yahoo.com caap.panglaotower@gmail.com
Airline, airspace user	Philippine Airlines	Eugenio B. RAYMUNDO	Central Flight Dispatch, Integrated Operations Control Center		jennyb_raymundo@pal.com.ph
Regulation	Philippines CAAP	Jose V. FESTEJO	Supervising MET Inspectorate	+63 2 9442288	jadper_fr@yahoo.com
Exercise coordination	ICAO APAC Office	Peter C. DUNDA	Regional Officer MET		PDunda@icao.int

**Table 1. Observers**

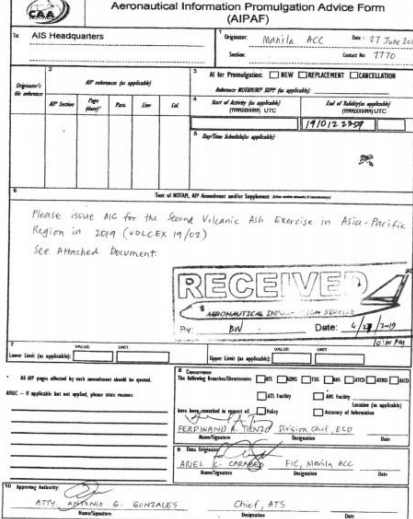
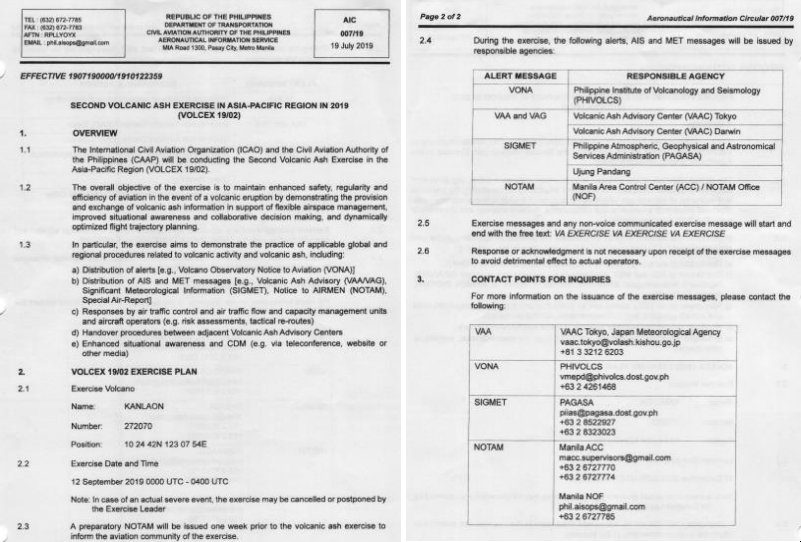
Area of Responsibility	State	Organization	Contact Name	Contact Position	Telephone/Fax Numbers	Email address/es
VO	Indonesia	CVGHM				
VAAC	New Zealand	VAAC Wellington	Mr. Marcel ROUX	Manager		
MWO	Thailand	TMD	Ms. Rassmee DAMRONGKIETWATTANA	Director of Aeronautical Weather Monitoring SubDivision	+66(2)1340011 ext.213	rassmee@hotmail.com
	Republic of Korea	KMA	Ms. Yeji PARK	Assistant Director	+82 (32) 740 2812	yeji@korea.kr

APX. A - 4

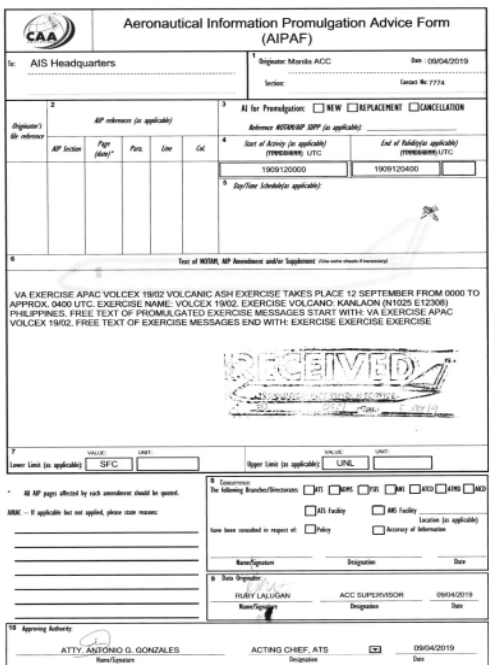
	Japan	JMA	Mr. Jun RYUZAKI	Senior Coordinator for International Aeronautical Meteorology	+81-3-3212-8341(ext.2298)	jryuzaki@met.kishou.go.jp
ACC, ANSP	Malaysia					
	Singapore	CAAS	Mr. Michael SHEE	Senior Air Traffic Control Manager		michael_shee@caas.gov.sg
	Thailand					
	New Zealand					
	USA					
	Japan(Kobe)					
	Japan(Fukuoka)					
	Hong Kong China					
	Vietnam					
NOF, ANSP	Japan					
REGULATORY	Australia	CASA	Mr. Ashley McALPINE	Safety Management & Performance Specialist		
	Indonesia	DGCA	Mrs. Sri Lestari Yuni CATUR	Air Navigation Inspector	+62 812 1212 9864	sri_lestari0406@depbuh.go.id
		DGCA	Mrs. Dina YUNITA	Air Navigation Inspector	+62 812 9607 5249	Dina_yunita@dephub.go.id
	New Zealand	CAA of New Zealand	Ms Paula ACETHORP	Chief Meteorological Officer		paula.acethorp@caa.govt.nz
AO, Airspace user						

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**APPENDIX B**  
VOLCEX 19/02 EXERCISE MESSAGES

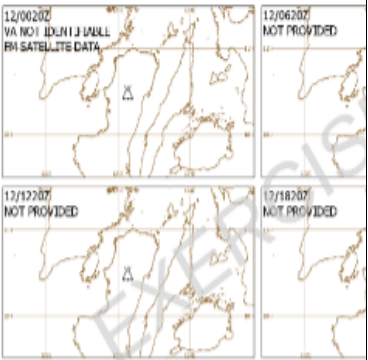
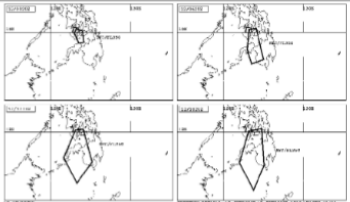
Date/ Time UTC	Organizat ion (Route of Action)	Action/Product/Message	Remarks
27 June 2019 1400 UTC	Manila ACC to AIS NOTAM Office	<p align="center">Request for AIC Publication</p> 	
19 July 2019 0000 UTC- 12 October 2019 2359 UTC	AIS NOTAM Office	<p align="center">Publish AIC 007/19</p> 	

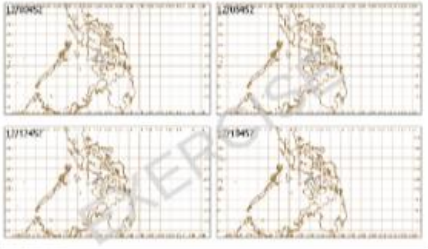
APX. B - 2




<p>5 Septem ber 2019 0551 UTC</p>	<p>Manila ACC</p>	<p>Request AIS NOTAM Office to issue preparatory NOTAM regarding the exercise</p> 	
<p>5 Septem ber 2019 0627 UTC</p>	<p>AIS NOTAM Office</p>	<p>Promulgate exercise NOTAM B3986/19</p> <pre> This IPM: 00E251C76ACABD2B*/C-XX/ADMD=ICAO/PRMD=RP/O=AFTN/OUI=RPHI2R2X/ Originator: \$ /C-XX/ADMD=ICAO/PRMD=RP/O=AFTN/OUI=RPHI2R2X/ Primary Recipients:   \$ /C-XX/ADMD=ICAO/PRMD=RP/O=AFTN/OUI=RPHI2R2B/   \$ /C-XX/ADMD=ICAO/PRMD=RP/O=AFTN/OUI=RPHI2R2C/ Message Text: PRI: GG FT: 050627 050627 EUECYIYN (B3986/19 NOTAMN Q) RPHI/QMXX/IV/NBO/W /000/999/1216N12435E999 A) RPHI B) 1909120000 C) 1909120400 N) VA EXERCISE APAC VOLCEX 19/02 VOLCANIC ASH EXER TAKES PLACE 12 SEP FM 0000 TO APRX 0400. EXER NAME: VOLCEX 19/02. EXER VOLCANO: KANLAON (N1025 E12308) PHILIPPINES. FREE TEXT OF PROMULGATED EXER MSG STARTS WITH: VA EXERCISE APAC VOLCEX 19/02. FREE TEXT OF EXER MSG ENDS WITH: EXERCISE EXERCISE EXERCISE. F) SPC G) UNL)                     </pre>	
<p><b>APAC VOLCEX 19/02 12 September 2019</b></p>			
<p>0010 UTC</p>	<p>PHIVOLCS</p>	<p>Issue VONA (1)<sup>1</sup> informing eruption of Mt. Kanlaon</p>	<p>No aviation color code assigned</p>

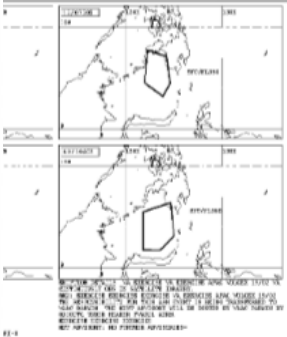
<sup>1</sup> In this document, 'P' shall refer to as 'Primary', while 'R' shall refer to as 'Rebroadcast'.  
The number shall refer to the sequence of the document/advisory issued in the exercise.

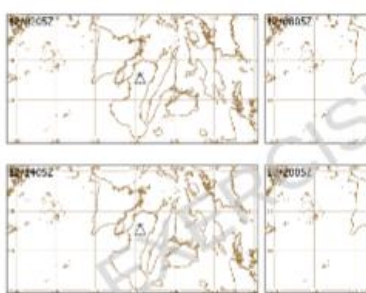
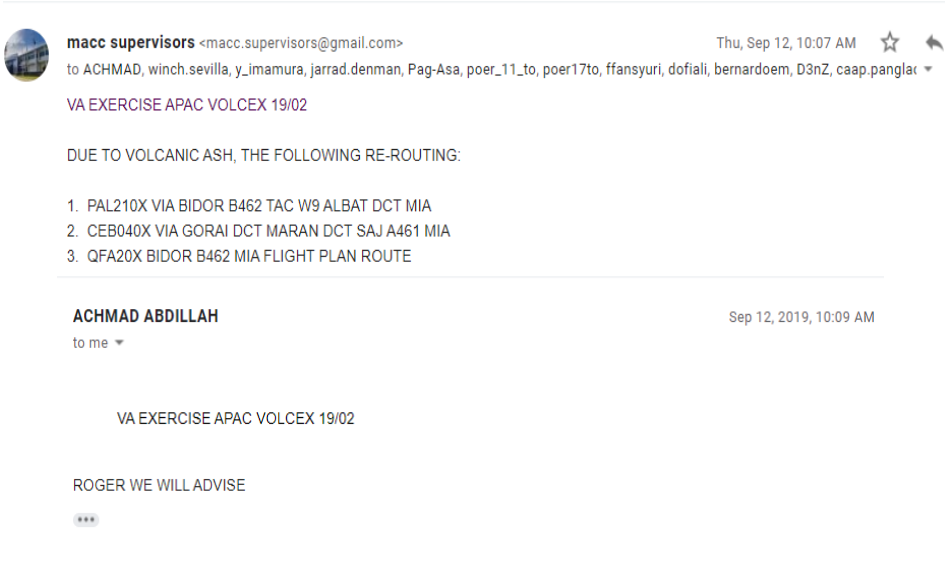
		<p>VA EXERCISE APAC VOLCEX 19/02                  (1) VOLCANO OBSERVATORY NOTICE FOR AVIATION (VDNA)                  (2) Issued: (20190912/0010Z)                  (3) Volcano: Kanlaon (CAVW# 0702-02-)                  (4) Current Aviation Color Code:                  (5) Previous Aviation Color Code:                  (6) Source: Kanlaon Volcano Observatory (PHIVOLCS)                  (7) Notice Number: PVS-VDNA-KV-20190912-1                  (8) Volcano Location: 1025N 12308E                  (9) Area: Philippines                  (10) Summit Elevation: 7989 ft (2435 m)                  (11) Volcanic Activity Summary: Eruption with volcanic ash cloud at 0000 UTC (0800 local)                  (12) Volcanic Cloud Height: 35000 ft (10668 m)                  (13) Other volcanic cloud information: The ash cloud reached 10668 meters above the summit and drifting S (South).                  (14) Remarks: APAC VOLCEX 19/02                  (15) Contacts: Philippine Institute of Volcanology and Seismology                  Volcano Monitoring and Eruption Prediction Division                  mail:vmepd@phivolcs.dost.gov.ph                  (632) 927-1095; (632) 426-1468 loc 127                  (16) Next Notice: A new VDNA will be issued if conditions change significantly. While a VDNA is in effect, regularly scheduled updates are posted at: <a href="http://www.phivolcs.dost.gov.ph">http://www.phivolcs.dost.gov.ph</a></p> <p><b>EXERCISE EXERCISE EXERCISE</b></p>	
<p>0015 UTC</p>	<p>VAAC Tokyo</p>	<p>Issue VAA (P1) for eruption to FL350, no polygons and no further advisories</p> <pre> VA ADVISORY DTG: 20190912/0015Z VAAC: TOKYO VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 9999/1 INFO SOURCE: VA EXERCISE APAC VOLCEX 19/02 HIMAWARI-8 PHIVOLCS AVIATION COLOUR CODE: NIL ERUPTION DETAILS: VA EXERCISE VA EXERCISE APAC VOLCEX 19/02 ERUPTION  AT 20190912/0000Z FL350 EXTD S REPORTED OBS VA DTG: 12/0000Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND FL350 180/30KT  FCST VA CLD +6 HR: NOT AVBL FCST VA CLD +12 HR: NOT AVBL FCST VA CLD +18 HR: NOT AVBL RMK: EXERCISE EXERCISE EXERCISE VA EXERCISE APAC VOLCEX 19/02 WE WILL ISSUE FURTHER ADVISORY IF VA IS DETECTED IN SATELLITE IMAGERY. EXERCISE EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES=                 </pre>	<p>No aviation color code assigned</p>
<p>0015 UTC</p>	<p>PAGASA</p>	<p>Issue initial SIGMET (1)</p> <pre> \$ /C=XX/ACMD=ICAO/PRMD=RP/O=AFTN/OUI=RPHIZREC/ Message Text: PRI: FF FT: 120015 120015 RPLLYMYX WVPH31 RPLL 120015 RPHI SIGMET 1 VALID 120015/120605 RPLL= RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 VA ERUPTION MT KANLAON PSN N VA CLD OBS AT 0010Z SFC/FL430 MOV S INTSF EXERCISE EXERCISE EXERCISE=                 </pre>	<p>Indicated FL430 instead of FL350. As per PAGASA, Explanati on for <b>SFC/FL430</b>: VONA stated that summit elevation of Kanlaon volcano is 7989 ft (2435 m) and ash cloud reached 10668 meters above the summit... So, 2435 m + 10668 m</p>

			<p>= 13103 m = 42988.88 ft</p>
<p>0020 UTC</p>	<p>VAAC Darwin</p>	<p>Rebroadcast advisory issued based on VAAC Tokyo initial advisory VAA (R1) and VAG (R1)</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>VAAC: DARWIN VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 2019/1 INFO SOURCE: VAAC TOKYO AVIATION COLOUR CODE: NIL ERUPTION DETAILS: UNKNOWN OBS VA DTG: 12/0020Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA FCST VA CLD +6 HR: 12/0620Z NOT PROVIDED FCST VA CLD +12 HR: 12/1220Z NOT PROVIDED FCST VA CLD +18 HR: 12/1820Z NOT PROVIDED RMK: APAC VOLCEX 1902 VA EXERCISE PLEASE SEE FVFE01 RJTD 120015 ISSUED BY VAAC TOKYO WHICH DESCRIBES CONDITIONS NEAR VAAC DARWIN AREA OF RESPONSIBILITY. NXT ADVISORY: NO FURTHER ADVISORIES</p> </div> <div style="width: 35%;">  </div> </div>	<p>Re- broadcast VAA</p>
<p>0020 UTC</p>	<p>Manila ACC to AIS NOTAM Office</p>	<p>Issue initial NOTAM based on VONA, VAA (P1) from Tokyo and SIGMET (1) from PAGASA</p> <p>FT: 120020 120020 EUBCYIYN 104093/19 NOTAMN Q) RPHI/QMXX/IV/NBO/W /000/350/1025N12308E999 A) RPHI B) 1909120019 C) 1909130010EST E) VA EXERCISE APAC VOLCEX 19/02. ERUPTION OF VOLCANO KANLAON 702-02 10 25N 123 08E PHILIPPINES AS REPORTED BY VOLCANO OBSERVATORY AT 0010UTC. VOLCANO ASH CLD REPORTED BY GND OBSERVER. EXERCISE EXERCISE EXERCISE. F) SFC G) FL350J</p>	
<p>0040 UTC</p>	<p>VAAC Tokyo</p>	<p>Issue VAA (P2) and VAG (P1) as the ash was now seen on satellite imagery</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>FVFE01 RJTD 120040 VA ADVISORY DTG: 20190912/0040Z VAAC: TOKYO VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 9999/2 INFO SOURCE: VA EXERCISE APAC VOLCEX 19/02 HIMAWARI-8 PHIVOLCS AVIATION COLOUR CODE: NIL ERUPTION DETAILS: VA EXERCISE VA EXERCISE APAC VOLCEX 19/02 ERUPTION AT 20190912/0000Z FL350 EXT D S REPORTED OBS VA DTG: 12/0020Z OBS VA CLD: SFC/FL350 N1024 E12310 - N1007 E12358 - N0843 E12409 - N0837 E12331 - N0951 E12254 MOV S 30KT FCST VA CLD +6 HR: 12/0620Z SFC/FL350 N1028 E12403 - N0636 E12501 - N0602 E12330 - N0747 E12258 - N1019 E12310 FCST VA CLD +12 HR: 12/1220Z SFC/FL350 N1024 E12406 - N0619 E12511 - N0341 E12315 - N0652 E12136 - N1016 E12305 FCST VA CLD +18 HR: 12/1820Z SFC/FL350 N1026 E12449 - N0553 E12506 - N0251 E12344 - N0614 E12200 - N1007 E12305 RMK: EXERCISE EXERCISE EXERCISE VA EXERCISE APAC VOLCEX 19/02 NIL EXERCISE EXERCISE EXERCISE NXT ADVISORY: 20190912/0300Z=</p> </div> <div style="width: 35%;">  </div> </div>	


<p>0046 UTC</p>	<p>VAAC Darwin</p>	<p>Rebroadcast VAA (R2) and VAG (R2) advisory issued based on VAAC Tokyo</p> <p>FVAU06 ADRM 120046 VA ADVISORY DTG: 20190912/0045Z VAAC: DARWIN VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 2019/2 INFO SOURCE: VAAC TOKYO AVIATION COLOUR CODE: NIL ERUPTION DETAILS: UNKNOWN OBS VA DTG: 12/0045Z OBS VA CLD: FCST VA CLD +6 HR: 12/0645Z FCST VA CLD +12 HR: 12/1245Z FCST VA CLD +18 HR: 12/1845Z RMK: APAC VOLCEX 1902 VA EXERCISE PLEASE SEE FVFE01 RJTD 120040 ISSUED BY VAAC TOKYO WHICH DESCRIBES CONDITIONS NEAR VAAC DARWIN AREA OF RESPONSIBILITY. APAC VOLCEX 1902 VA EXERCISE NXT ADVISORY: NO LATER THAN 20190912/0305Z</p>		<p>Re- broadcast VAA</p>
<p>0052 UTC</p>	<p>PAGASA</p>	<p>Issue SIGMET (2) based on VAAC Tokyo's advisory</p> <p>FT: 120052 120052 RPLLYMYX WVPH31 RPLL 120052 RPHI SIGMET 2 VALID 120052/120652 RPLL- RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 VA ERUPTION MT KANLAON PSN N VA CLD OBS AT 0020Z WI N1024 E12310 - N1007 E12358 - N0843 E12409 - N0837 E12331 - N0951 E12254 SFC/FL350 MOV S 30KT NC FCST 0620Z VA CLD WI N1028 E12403 - N0636 E12501 - N0602 E12330 - N0747 E12258 - N1019 E12310 SFC/FL350 MOV S 30KT INTSF EXERCISE EXERCISE EXERCISE=</p>		
<p>0103 UTC</p>	<p>Manila ACC to AIS NOTAM Office</p>	<p>Revise initial NOTAM B4093/19 based on VAA (P2) from VAAC Tokyo and SIGMET (2) from PAGASA</p> <p>FT: 120103 120103 EUECYIYN (B4094/19 NOTAMR B4093/19 Q) RPHI/QWWXX/IV/NBO/W /000/350/1025N12308E999 A) RPHI B) 1909120103 C) 1909130010EST E) VA EXERCISE APAC VOLCEX 19/02. ERUPTION OF VOLCANO KANLAON 702-02 10 25N 123 08E PHILIPPINES. DATE AND TIME OF ERUPTION: 1909120010 EXISTENCE AND HORIZONTAL/VERTICAL EXTENT OF VA CLD: SFC/FL350. DIRECTION OF MOV OF ASH CLD: SOUTH FLW RTE ARE AFFECTED: B472 GULFO-COT, W3 PASDA-CGO B473 CARLO-CGO, W21 MCT-COT ALTN RTE AVBL: A461 ZAM-SAJ AND W9 DAO-TAC SOURCE OF INFO: VAA TOKYO RMK: VA EXERCISE APAC VOLCEX 19/02. EXERCISE EXERCISE EXERCISE. F) SFC G) FL350)</p>		

<p>0121 UTC</p>	<p>Ujung Pandang ACC to Manila ACC</p>	<p>Initiate transfer coordination for mock flight inbound Manila FIR: PAL210X</p> <p> <b>macc supervisors</b> On Thu, Sep 12, 2019 at 8:55 AM macc supervisors &lt;macc.supervisors@gmail.com&gt; wrote: THANK YOU On Thu, Sep 12, 2019 at 8:55 ...</p> <p> <b>ACHMAD ABDILLAH</b> to me ▾ VA EXERCISE APAC VOLCEX 19/02 TRANSFER PAL210X PEDNO 0215 F340 A2610</p> <p>On 12 Sep 2019, at 09:05, macc supervisors &lt;macc.supervisors@gmail.com&gt; wrote:</p> <p>----- Forwarded message ----- From: macc supervisors &lt;macc.supervisors@gmail.com&gt; To: ACHMAD ABDILLAH &lt;abdee_lah@hotmail.com&gt; Cc: winch.sevilla@ohvolsics.dost.gov.ph, y.imamura@met.kishou.go.jp, jarrad.denman@bom.gov.au, Pag-Asa &lt;hannacristi@yahoo.com&gt;, poer_11_to@yahoo.com, poer17to@gmail.com, ffansyuri@gmail.com, dofiail@gmail.com, bernardoem@yahoo.com, D3nZ Aur3Z &lt;dennis_aures@yahoo.com&gt;, caap.panglaotower@gmail.com, atfmob@gmail.com, adwan.lamudjidi@gmail.com, bonte.cygart@yahoo.com, Riswan Rudyartha &lt;riswanrud@yahoo.com&gt;, CAAP - phil.aisops@gmail.com, ais@ats.caap.gov.ph, "Atty. Rafael A. Tatonghari" &lt;rtatongh@yaho.com&gt;, Mark Michael Anthony Diamaden &lt;m_diamaden@yahoo.com&gt;, jennyb_rymundo@sal.com.ph, jadoer_fm@yahoo.com, Pjunda@icao.int, rassmee@hotmail.com, yeil@korea.kr, jiyuzaki@met.kishou.go.jp, michael_shee@caas.gov.sg, sri_lastari406@dephub.go.id, Dina_yunita@dephub.go.id, naula.acethorn@caa.govt.nz Bcc: Date: Thu, 12 Sep 2019 09:21:10 +0800 Subject: Re: UJUNG ACC - MANILA ACC Coordination</p> <p>VA EXERCISE APAC VOLCEX 19/02 READBACK: PAL210X PEDNO 0215 F340 A2610</p> <p>On Thu, Sep 12, 2019 at 9:17 AM ACHMAD ABDILLAH &lt;abdee_lah@hotmail.com&gt; wrote: VA EXERCISE APAC VOLCEX 19/02 TRANSFER PAL210X PEDNO 0215 F340 A2610</p>	<p>Sent via email</p>
<p>0137 UTC</p>	<p>Ujung Pandang ACC to Manila ACC</p>	<p>Initiate transfer coordination for mock flights inbound Manila FIR: QFA20X and CEB040X</p> <p><b>ACHMAD ABDILLAH</b> to me ▾</p> <p>This message has been deleted. <a href="#">Restore message</a></p> <p>VA EXERCISE APAC VOLCEX 19/02 TRANSFER QFA20X SELSO 0300 F340 A2712</p> <p>On 12 Sep 2019, at 09:21, macc supervisors &lt;macc.supervisors@gmail.com&gt; wrote:</p> <p>Fwd: UJUNG ACC - MANILA ACC Coordination</p> <p> <b>macc supervisors</b> &lt;macc.supervisors@gmail.com&gt; to ACHMAD, winch.sevilla, y.imamura, jarrad.denman, Pag-Asa, poer_11_to, poer17to, ffansyuri, dofiail, bernardoem, D3nZ, caap.panglaotower@gmail.com VA EXERCISE APAC VOLCEX 19/02 READBACK: CEB040X SADAN 0245 F300 A2614</p>	<p>Sent via email</p>
<p>0141 UTC</p>	<p>Panglao airport authority to AIS NOTAM Office</p>	<p>Panglao airport authority: Forward AIPAF for issuance of NOTAM Issue NOTAM for Panglao (RPSP) airport closure B4095/19</p> <p>120141 EUECYIYN (B4095/19 NOTAMN Q) RPHI/QFALC/IV/NBO/A /000/999/0934N12346E005 A) RPSP B) 1909120141 C) 1909120600EST E) VA EXERCISE APAC VOLCEX 19/02. AD CLSD DUE TO KANLAON VA. EXERCISE EXERCISE EXERCISE.)</p>	

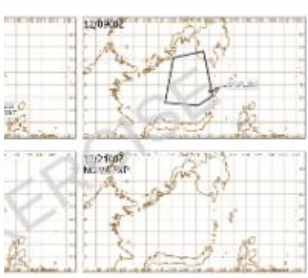
<p>0146 UTC</p>	<p>Panglao Aerodrome Control Tower Supervisor -on-Duty to AIS NOTAM Office</p>	<p>Panglao Tower Supervisor-on-duty: Forward AIPAF for issuance of NOTAM Issue NOTAM for Panglao (RPSP) aerodrome control service limitation B4096/19</p> <p>120146 EUECYIYN (B4096/19 NOTAMN Q) RPHI/QSTXX/IV/NBO/A /000/999/0934N12346E005 A) RPSP B) 1909120146 C) 1909120600EST E) VA EXERCISE APAC VOLCEX 19/02. AD CTL SER SUSPENDED DUE TO KANLAON VA. EXERCISE EXERCISE EXERCISE.)</p>	
<p>0150 UTC</p>	<p>PHIVOLCS</p>	<p>Issue VONA (2) regarding cessation of eruption</p> <p>VA EXERCISE APAC VOLCEX 19/02 (1) VOLCANO OBSERVATORY NOTICE FOR AVIATION (VONA) (2) Issued: (20190912/0150Z) (3) Volcano: Kanlaon (CAVWH 0702-02=) (4) Current Aviation Color Code: (5) Previous Aviation Color Code: (6) Source: Kanlaon Volcano Observatory (PHIVOLCS) (7) Notice Number: PIVS-VONA-KV-20190912-1 (8) Volcano Location: 1025N 12308E (9) Area: Philippines (10) Summit Elevation: 7989 ft (2435 m) (11) Volcanic Activity Summary: Eruption has ceased (12) Volcanic Cloud Height: Ash-cloud not visible (13) Other volcanic cloud information: Ash-cloud has dissipated. (14) Remarks: APAC VOLCEX 19/02 (15) Contacts: Philippine Institute of Volcanology and Seismology Volcano Monitoring and Eruption Prediction Division mail: vmepd@phivolcs.dost.gov.ph (632) 927-1095; (632) 426-1468 loc 127 (15) Next Notice: A new VONA will be issued if conditions change significantly. While a VONA is in effect, regularly scheduled updates are posted at <a href="http://www.phivolcs.dost.gov.ph">http://www.phivolcs.dost.gov.ph</a></p> <p>EXERCISE EXERCISE EXERCISE</p>	
<p>0200 UTC</p>	<p>VAAC Tokyo</p>	<p>Issue last VAA (P3) and VAG (P2) with announcement of transfer of responsibility to VAAC Darwin at 0300 UTC</p> <p>VA ADVISORY DTG: 20190912/0200Z VAAC: TOKYO VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 9999/3 INFO SOURCE: VA EXERCISE APAC VOLCEX 19/02 HIMAWARI-8 PHIVOLCS AVIATION COLOUR CODE: NIL ERUPTION DETAILS: VA EXERCISE VA EXERCISE APAC VOLCEX 19/02 VA CONTINUOUSLY OBS ON SATELLITE IMAGERY. OBS VA DTG: 12/0130Z OBS VA CLD: SFC/FL350 N1023 E12316 - N1013 E12418 - N0752 E12448 - N0701 E12359 - N0807 E12244 - N1021 E12305 MOV S 30KT FCST VA CLD +6 HR: 12/0730Z SFC/FL350 N0430 E12434 - N0315 E12350 - N0433 E12157 - N0743 E12218 - N0704 E12413 FCST VA CLD +12 HR: 12/1330Z SFC/FL350 N0636 E12440 - N0346 E12455 - N0233 E12350 - N0251 E12215 - N0610 E12228 FCST VA CLD +18 HR: 12/1930Z SFC/FL340 N0625 E12437 - N0312 E12501 - N0145 E12331 - N0148 E12149 - N0533 E12149 RMK: EXERCISE EXERCISE EXERCISE VA EXERCISE APAC VOLCEX 19/02 THE RESPONSIBILITY FOR THIS ASH EVENT IS BEING TRANSFERRED TO VAAC DARWIN. THE NEXT ADVISORY WILL BE ISSUED BY VAAC DARWIN BY 0300UTC UNDER HEADER FVAU06 ADRM. EXERCISE EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES=</p> 	<p>“NO FURTHER ADVISORIES” in the NEXT ADVISORY Field</p>


<p>0206 UTC</p>	<p>VAAC Darwin</p>	<p>Issue re-broadcast VAA (R3) and VAG (R3) based on VAAC Tokyo's advisory</p> <p>FVAU06 ADRM 120206 VA ADVISORY DTG: 20190912/0205Z VAAC: DARWIN VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 2019/3 INFO SOURCE: VAAC TOKYO AVIATION COLOUR CODE: NIL ERUPTION DETAILS: UNKNOWN OBS VA DTG: 12/0205Z OBS VA CLD: FCST VA CLD +6 HR: 12/0805Z FCST VA CLD +12 HR: 12/1405Z FCST VA CLD +18 HR: 12/2005Z RMK: APAC VOLCEX 1902 VA EXERCISE PLEASE SEE FVFE01 RJTD 120200 ISSUED BY VAAC TOKYO WHICH DESCRIBES CONDITIONS OVER VAAC DARWIN AREA OF RESPONSIBILITY. APAC VOLCEX 1902 VA EXERCISE NXT ADVISORY: NO LATER THAN 20190912/0300Z</p> 	<p>Re- broadcast VAA</p>
<p>0207 UTC</p>	<p>Manila ACC to Ujung Pandang ACC</p>	<p>Manila ACC advised re-routing for flights inbound Manila FIR due to volcanic ash</p> 	<p>Sent via email</p>
<p>0207 UTC</p>	<p>PAGASA</p>	<p>Issue SIGMET (3) based on Tokyo VAAC's last advisory</p> <p>FT: 120245 120245 RPLLYMYX WVPH31 RPLL 120207 CCA RPHI SIGMET 3 VALID 120207/120807 RPLL- RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 VA ERUPTION MT KANLAON VA CLD OBS AT 0130Z WI N1023 E12316 - N1013 E12418 - N0752 E12448 - N0701 E12359 - N0807 E12244 - N1021 E12305 SFC/FL350 MOV S 30KT NC FCST 0730Z VA CLD WI N0704 E12413 - N0430 E12434 - N0400 E12416 - N04 N0433 E12157 - N0743 E12218 - N0704 E12413 SFC/FL350 MOV S 30KT NC EX</p>	<p>From PAGASA: Took time in cropping the affected areas (polygons) to correct the encroachment in the Ujung Pandang FIR. Re-issued the edited SIGMET 3 following the "SIGMET Quick Reference Guide - WV</p>

			<p>SIGMET” pamphlet:</p> <p>WMO header:  <b>T<sub>1</sub>T<sub>2</sub>A<sub>1</sub>A<sub>2</sub>ii</b>  <b>CCCC</b>  <b>YYGGgg</b>  <b>[BBB]</b></p> <p><b>BBB</b> should be included when issuing a correction to a SIGMET which had already been transmitted. BBB indicator shall take the form <b>CCx</b> for correction to previously relayed bulletins, CCA for first correction and CCB for second correction, etc., for the specific issued SIGMET ( Ref. SIGMET Quick Reference Guide -WV SIGMET)</p>
0209 UTC	Dumaguete airport authority to AIS NOTAM Office	<p>Issue NOTAM for Dumaguete (RPVD) airport closure C0609/19</p> <p>FT: 120209  120209 EUECYIYN  (C0609/19 NOTAMN  Q) RPHI/QFALC/IV/NBO/A /000/999/0920N12318E005  A) RPVD B) 1909120209 C) 1909120600EST  E) VA EXERCISE APAC VOLCEX 19/02.  AD CLSD DUE TO KANLAON VA.  EXERCISE EXERCISE EXERCISE.)</p>	
0215 UTC	Ujung Pandang MWO	<p>Issue SIGMET (2) for ash expected in their FIR</p> <p>WVID21 WAAA 120215  WAAZ SIGMET 02 VALID 120215/120730 WAAA-  WAAZ UJUNG FIR PANDANG FIR VA EXERCISE APAC  VOLCEX 19/02 VA ERUPTION MT KANLAON PSN N1025  E12308  VA CLD FCST AT 0730Z WI N0315 E12350 - N0400  E12245 - N0400 E12416 -  N0315 E12350 SFC/350  FCST AT 1330Z WI N0346 E12455 - N0233 E12350 -  N0251 E12215 - N0400 E  12220 - N0400 E12454 - N0346 E12455 EXERCISE  EXERCISE EXERCISE=</p>	Both PAGASA and Manila ACC did not receive SIGMET 2
0215 UTC	Philippine Airlines operator to Manila ACC	<p>Special air-report sent by mock flight GAP2543X. Manila ACC forwarded ARS to PAGASA via email.</p>	

		<p>FT: 120228          120228 RPLLYMYX          UAPH31 RPLL 120228          ARS GAP2543X VA CLD FL240/FL320 OBS AT 0210Z N1346E12103 VA EXERCISE</p>	
0216 UTC	Dumaguete Aerodrome Control Tower Supervisor -on-duty to AIS NOTAM Office	<p>Issue NOTAM for Dumaguete (RPVD) aerodrome control service limitation C0610/19</p> <p>FT: 120216          120216 EUECYIYN          (C0610/19 NOTAMN          Q) RPHI/QSTXX/IV/NBO/A /000/999/0920N12318E005          A) RPVD B) 1909120216 C) 1909120600EST          E) VA EXERCISE APAC VOLCEX 19/02.          AD CTL SER SUSPENDED DUE TO KANLAON VA.          EXERCISE EXERCISE EXERCISE.)</p>	
0224 UTC	Ujung Pandang ACC and Manila ACC	<p>Ujung Pandang ACC revise previous transfer information for affected flights inbound Manila FIR</p> <p>On Thu, Sep 12, 2019 at 10:21 AM ACHMAD ABDILLAH &lt;<a href="mailto:abdee_jah@hotmail.com">abdee_jah@hotmail.com</a>&gt; wrote:          VA EXERCISE APAC VOLCEX 19/02</p> <p>REVISE THE FOLLOWING TRANSFERS:</p> <ol style="list-style-type: none"> <li>1. PAL210X BIDOR 0225 F340 A2610</li> <li>2. CEB040X GORAI 0300 F380 A2614</li> <li>3. QFA20X BIDOR 0315 F340 A2712</li> </ol> <p>Manila ACC read back revised transfer information</p> <p> <b>macc supervisors</b> &lt;<a href="mailto:macc.supervisors@gmail.com">macc.supervisors@gmail.com</a>&gt; Sep 12, 2019, 10:21 AM          to ACHMAD, Pag-Asa, winch.sevilla@phivolcs.dost.gov.ph, y_imamura@met.kishou.go.jp, jarrad.denman@bom.gov.au,          VA EXERCISE APAC VOLCEX 19/02</p> <p>READBACK:</p> <ol style="list-style-type: none"> <li>1. PAL210X BIDOR 0225 F340 A2610</li> <li>2. CEB040X GORAI 0300 F380 A2614</li> <li>3. QFA20X BIDOR 0315 F340 A2712</li> </ol>	Done via email exchange
0228 UTC	PAGASA	<p>Transmit ARS via AFTN</p> <p>FT: 120228          120228 RPLLYMYX          UAPH31 RPLL 120228          ARS GAP2543X VA CLD FL240/FL320 OBS AT 0210Z N1346E12103 VA EXERCISE</p>	

<p>0242 UTC</p>	<p>Manila ACC to AIS NOTAM Office</p>	<p>Revise NOTAM B4094/19 based on VAA (P3) from VAAC Tokyo and SIGMET (3) from PAGASA</p> <p>FT: 120242 120242 EUECYIYN (B4098/19 NOTAMR B4094/19 Q) RPHI/QWWXX/IV/NBO/W /000/350/1025N12308E999 A) RPHI B) 1909120242 C) 1909130215EST E) VA EXERCISE APAC VOLCEX 19/02. ERUPTION OF VOLCANO KANLAON 702-02 10 25N 123 08E PHILIPPINES. DATE AND TIME OF ERUPTION: 1909120010 EXISTENCE AND HORIZONTAL/VERTICAL EXTENT OF VA CLD: OBS VA DTG: 12/0130Z OBS VA CLD: SFC/FL350 N1023 E12316 - N1013 E12418 - N0752 E12448 - N0701 E12359 - N0807 E12244 - N1021 E12305 MOV S 30KT FCST VA CLD +6HR: 12/0730Z SFC/FL350 N0430 E12434 - N0315 E12350 - N0433 E12157 - N0743 E12218 - N0704 E12413 FCST VA CLD +12HR: 12/1330Z SFC/FL350 N0636 E12440 - N0346 E12455 - N0233 E12350 - N0251 E12215 - N0610 E12228 FCST VA CLD +18HR: 12/1930Z SFC/FL340 N0625 E12437 - N0312 E12501 - N0145 E12331 - N0148 E12149 - N0533 E12149 DIRECTION OF MOV OF ASH CLD: SOUTH FLW RTE ARE AFFECTED: A461 MOLLY-ZAM, B472 SELSO-IOO, R590 PEDNO-COT R342 PEDNO-GSA, G578 ZAM-MCT, B473 DAO-ROX ALTN RTE AVBL: B462 BIDOR-TAC AND G578 GORAI-OCORO SOURCE OF INFO: VAA TOKYO AND SIGMET RMK: VA EXERCISE APAC VOLCEX 19/02. EXERCISE EXERCISE EXERCISE. F) SFC G) FL350)</p>
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<p>0300 UTC</p>	<p>VAAC Darwin</p>	<p style="text-align: center;">Issue VAA (P4) and VAG (P4)</p> <p>----- 120259 NZKLYMYK FVAU06 NZKL 120259 VA ADVISORY DTG: 20190912/0300Z VAAC: DARWIN VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 2019/4 INFO SOURCE: VAAC TOKYO, PHIVOLCS, HIMAWARI-8 AVIATION COLOUR CODE: NIL ERUPTION DETAILS: APAC VOLCEX 1902 VA EXERCISE VA TO FL350 ON SAT IMAGERY OBS VA DTG: 12/0300Z OBS VA CLD: SFC/FL350 N0744 E12216 - N0703 E12422 - N0435 E12509 - N0302 E12420 - N0451 E12205 MOV S 30KT FCST VA CLD +6 HR: 12/0900Z SFC/FL350 N0640 E12434 - N0306 E12518 - N0221 E12408 - N0234 E12130 - N0609 E12210 FCST VA CLD +12 HR: 12/1500Z SFC/FL350 N0605 E12436 - N0244 E12459 - N0133 E12358 - N0148 E12146 - N0526 E12201 FCST VA CLD +18 HR: 12/2100Z NO VA EXP RMK: APAC VOLCEX 1902 VA EXERCISE VAAC TOKYO HAS TRANSFERRED RESPONSIBILITY FOR THIS ASH CLOUD TO VAAC DARWIN. THIS ADVISORY UPDATES MESSAGE FVFE01 RJTD 12/0200. APAC VOLCEX 1902 VA EXERCISE NXT ADVISORY: NO LATER THAN 20190912/0400Z</p> 	<p>No aviation color code assigned. “NIL” in the aviation color code field</p>
<p>0306 UTC</p>	<p>Philippine Airlines operator to Manila ACC</p>	<p>Mock flight GAP2543X informed Manila ACC holding over waypoint NANAS and request clearance back to Manila due to volcanic ash</p> <p>On Thu, Sep 12, 2019 at 11:06 AM Jaime M. Caparas &lt;jmcaparas@pal.com.ph&gt; wrote: AIRCOM TO COMPANY MESSAGE: GAP2543X HOLDING OVER WAYPOINT NANAS FL300 RETURNING RPLL DUE TO DGT AP CLOSED. VA ON THE VICINITY. ETA RPLL 0400Z -CAPT. JJ BOND</p>	<p>Sent via email</p>
<p>0308 UTC</p>	<p>VAAC Tokyo</p>	<p style="text-align: center;">Issue re-broadcast VAA (R4) of VAAC Darwin’s advisory</p> <hr/> <p>FVFE01 RJTD 120308 VA ADVISORY DTG: 20190912/0300Z VAAC: DARWIN VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 2019/4 INFO SOURCE: VA EXERCISE APAC VOLCEX 19/02 VAAC TOKYO, PHIVOLCS, HIMAWARI-8 AVIATION COLOUR CODE: NIL ERUPTION DETAILS: VA EXERCISE APAC VOLCEX 19/02 VA EXERCISE VA TO FL350 ON SAT IMAGERY OBS VA DTG: 12/0300Z OBS VA CLD: SFC/FL350 N0744 E12216 - N0703 E12422 - N0435 E12509 - N0302 E12420 - N0451 E12205 MOV S</p>	<p>Re- broadcast of VAAC Darwin’s advisory</p>

		<p>30KT  FCST VA CLD +6 HR: 12/0900Z SFC/FL350 N0640 E12434 - N0306 E12518 - N0221 E12408 - N0234 E12130 - N0609 E12210  FCST VA CLD +12 HR: 12/1500Z SFC/FL350 N0605 E12436 - N0244 E12459 - N0133 E12358 - N0148 E12146 - N0526 E12201  FCST VA CLD +18 HR: 12/2100Z NO VA EXP  RMK: VA EXERCISE APAC VOLCEX 19/02 VA EXERCISE VAAC TOKYO HAS TRANSFERRED RESPONSIBILITY FOR THIS ASH CLOUD TO VAAC DARWIN. THIS ADVISORY UPDATES MESSAGE FVFE01 RJTD 12/0200. APAC VOLCEX 19/02 VA EXERCISE  NXT ADVISORY: NO LATER THAN 20190912/0400Z=</p>	
0309 UTC	Manila ACC to Philippine Airlines operator	<p>Manila delivered ATC clearance GAP2543X for Manila (RPLL)</p> <p> <b>macc supervisors</b> &lt;macc.supervisors@gmail.com&gt; <span style="float: right;">Sep 12,</span>  to Jaime, winch.sevilla, y_imamura, jarrad.denman, Pag-Asa, poer_11_to, poer17to, ffansyuri, dofiali, bernardoem, D3nZ, caap.pangla</p> <p>GAP2543X CLEARED DIRECT TAPER B472 LIP DCT MIA</p> <p>VA EXERCISE APAC VOLCEX 19/02</p>	Sent via email.
0315 UTC	Ujung Pandang MWO	<p>Issue SIGMET (3) based on VAAC Darwin's advisory</p> <p>WVID21 WAAA 120315  WAAZ SIGMET 03 VALID 120315/120900 WAAA-  WAAZ UJUNG FIR PANDANG FIR VA EXERCISE APAC VOLCEX 19/02 VA ERUPTION MT K  ANLAON PSN N1025 E12308  VA CLD OBS AT 0300Z WI N0302 E12420 - N0400 E12308 - N0400 E12451 - N  0302 E12420 SFC/350  FCST AT 0900Z WI N0306 E12518 - N0221 E12408 - N0234 E12130 - N0400 E  12146 - N0400 E12507 - N0306 E12518 EXERCISE EXERCISE EXERCISE=</p>	Both PAGASA and Manila ACC did not receive SIGMET 3
0319 UTC	Ujung Pandang MWO	<p>Issue SIGMET (4) which cancels SIGMET (3)</p> <p>WVID21 WAAA 120319  WAAZ SIGMET 04 VALID 120320/120730 WAAA-  WAAZ UJUNG FIR PANDANG FIR VA EXERCISE APAC VOLCEX 19/02 CNL SIGMET 02 12  0215/120730 EXERCISE EXERCISE EXERCISE=</p>	Both PAGASA and Manila ACC did not receive SIGMET 4

<p>0323 UTC</p>	<p>PAGASA</p>	<p style="text-align: center;">Issue SIGMET (4) based on VAAC Darwin's advisory</p> <pre> ***** FT: 120323 120323 RPLLYMYX WVPH31 RPLL 120323 RPHI SIGMET 4 VALID 120323/120923 RPLL- RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 VA ERUPTION MT KANLAON VA CLD OBS AT 0300Z WI N0703 E12422 - N0435 E12509 - N0400 E12451 - N0 N0744 E12216 - N0703 E12422 SFC/FL350 MOV S 30KT NC FCST 0730Z VA CLD WI N0400 E12507 - N0400 E12146 - N0609 E12210 - N06 SFC/FL350 MOV S 30KT NC EXERCISE EXERCISE EXERCISE=                     </pre>	<p>Comment from PAGASA: It took them some time to crop the polygon so as not to encroach Ujung Pandang FIR</p>
<p>0334 UTC</p>	<p>Manila ACC to AIS NOTAM Office</p>	<p style="text-align: center;">Revise NOTAM B4098/19 using VAA (P4) from VAAC Darwin and SIGMET (4) from PAGASA</p> <pre> FT: 120334 120334 EUECYIYN (B4100/19 NOTAMR B4098/19 Q) RPHI/QWWXX/IV/NBO/W /000/350/1025N12308E999 A) RPHI B) 1909120334 C) 1909130325EST E) VA EXERCISE APAC VOLCEX 19/02. ERUPTION OF VOLCANO KANLAON 702- 10 25N 123 08E PHILIPPINES. DATE AND TIME OF ERUPTION: 1909120010 EXISTENCE AND HORIZONTAL/VERTICAL EXTENT OF VA CLD: OBS VA DTG: 12/0300Z OBS VA CLD: SFC/FL350 N0744 E12216 - N0703 E12422 - N0435 E12509 - N0302 E12420 - N0451 E12205 MOV S 30KT FCST VA CLD +6HR: 12/0900Z SFC/FL350 N0640 E12434 - N0306 E12518 - N0221 E12408 - N0234 E12130 - N0609 E12210 FCST VA CLD +12HR: 12/1500Z SFC/FL350 N0605 E12436 - N0244 E12459 - N0133 E12358 - N0148 E12146 - N0526 E12201 FCST VA CLD +18HR: 12/2100Z NO VA EXP DIRECTION OF MOV OF ASH CLD: SOUTH FLW RTE ARE AFFECTED: A461 MOLLY-ZAM, B472 SELSO-IOO, R590 PEDNO-C R342 PEDNO-GSA, G578 ZAM-MCT, B473 DAO-ROX ALTN RTE AVBL: B462 BIDOR-TAC AND G578 GORAI-OCORO SOURCE OF INFO: VAA DARWIN RMK: VA EXERCISE APAC VOLCEX 19/02. EXERCISE EXERCISE EXERCISE. F) SFC G) FL350)                     </pre>	

<p>0359 UTC</p>	<p>VAAC Darwin</p>	<p>Issue final advisory VAA (P5) and VAG (P5) signaling the end of exercise</p> <pre> PRI: GG FT: 120400 120400 NZKLYMYK FVAU06 NZKL 120359 VA ADVISORY DTG: 20190912/0400Z VAAC: DARWIN VOLCANO: KANLAON 272020 PSN: N1025 E12308 AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 2019/5 INFO SOURCE: VAAC TOKYO, PHIVOLCS, HIMAWARI-8 AVIATION COLOUR CODE: NIL ERUPTION DETAILS: APAC VOLCEX 1902 VA EXERCISE OBS VA DTG: 12/0400Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA FCST VA CLD +6 HR: 12/1000Z NO VA EXP FCST VA CLD +12 HR: 12/1600Z NO VA EXP FCST VA CLD +18 HR: 12/2200Z NO VA EXP RMK: APAC VOLCEX 1902 VA EXERCISE. FINAL ADVISORY AS EXERCISE HAS ENDED. APAC VOLCEX 1902 VA EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES                     </pre>	<p>“NO FURTHER ADVISORI ES” in next advisory field</p>
<p>0405 UTC</p>	<p>Ujung Pandang MWO</p>	<p>Issue SIGMET (5) which cancels SIGMET (4)</p> <pre> WVID21 WAAA 120405 WAAZ SIGMET 05 VALID 120405/120900 WAAA- WAAZ UJUNG PANDANG FIR VA EXERCISE APAC VOLCEX 19/02 CN 120315/120900 EXERCISE EXERCISE EXERCISE=                     </pre>	<p>Both PAGASA and Manila ACC did not receive SIGMET 5</p>
<p>0413 UTC</p>	<p>PAGASA</p>	<p>Issue SIGMET (5) which cancels SIGMET (1)</p> <pre> PRI: FF FT: 120413 RPHI SIGMET 5 VALID 120413/120605 RPLL- RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 CANCEL SIGMET 1 VALID 120015/120605 EX EXERCISE EXERCISE=                     </pre>	<p>CNL should be used instead of CANCEL</p>
<p>0413 UTC</p>	<p>Manila ACC to AIS NOTAM Office</p>	<p>Issue AIPAF for cancellation of NOTAM B4100/19</p> <pre> PRI: GG FT: 120414 120414 EUECYIYN (B4101/19 NOTAMC B4100/19 Q) RPHI/QWWCN/IV/NBO/W /000/350/1025N12308E999 A) RPHI B) 1909120413 E) VA EXERCISE APAC VOLCEX 19/02. CNL.)                     </pre>	

0416 UTC	PAGASA	<p style="text-align: center;">Issue SIGMET (6) which cancels SIGMET (2)</p> <p>PRI: FF  FT: 120416  RPHI SIGMET 5 VALID 120416/120652 RPLL-  RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 <b>CANCEL</b> SIGMET 2 VALID 120052/12  EXERCISE EXERCISE=</p>	<p style="text-align: center;">CNL  should be  used  instead of  <b>CANCEL</b></p>
0416 UTC	Panglao airport authority to AIS NOTAM Office	<p style="text-align: center;">Issue AIPAF for cancellation of NOTAM B4095/19</p> <p>message text.  PRI: GG  FT: 120417  120417 EUECYIYN  (B4102/19 NOTAMC B4095/19  Q) RPHI/QFACN/IV/NBO/A /000/999/0934N12346E005  A) RPSP B) 1909120416  E) VA EXERCISE APAC VOLCEX 19/02. CNL.)</p>	
0417 UTC	PAGASA	<p style="text-align: center;">Issue SIGMET (7) which cancels SIGMET (3)</p> <p>PRI: FF  FT: 120417  RPHI SIGMET 5 VALID 120417/120807 RPLL-  RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 <b>CANCEL</b> SIGMET 3 VALID 120207/120  EXERCISE EXERCISE=</p>	<p style="text-align: center;">CNL  should be  used  instead of  <b>CANCEL</b></p>
0418 UTC	PAGASA	<p style="text-align: center;">Issue SIGMET (8) which cancels SIGMET (4)</p> <p>PRI: FF  FT: 120418  RPHI SIGMET 5 VALID 120418/120923 RPLL-  RPHI MANILA FIR VA EXERCISE APAC VOLCEX 19/02 <b>CANCEL</b> SIGMET 4 VALID 120323/120  EXERCISE EXERCISE=</p>	<p style="text-align: center;">CNL  should be  used  instead of  <b>CANCEL</b></p>
0418 UTC	Panglao Aerodrom e Control Tower Supervisor -on-Duty to AIS NOTAM Office	<p style="text-align: center;">Issue AIPAF for cancellation of NOTAM B4096/19</p> <p>PRI: GG  FT: 120418  120418 EUECYIYN  (B4103/19 NOTAMC B4096/19  Q) RPHI/QSTCN/IV/NBO/A /000/999/0934N12346E005  A) RPSP B) 1909120418  E) VA EXERCISE APAC VOLCEX 19/02. CNL.)</p>	
0419 UTC	Dumaguete airport authority to AIS NOTAM Office	<p style="text-align: center;">Issue AIPAF for cancellation of NOTAM C0609/19</p> <p>message text.  PRI: GG  FT: 120419  120419 EUECYIYN  (C0611/19 NOTAMC C0609/19  Q) RPHI/QFACN/IV/NBO/A /000/999/0920N12318E005  A) RPVD B) 1909120419  E) VA EXERCISE APAC VOLCEX 19/02. CNL.)</p>	
0419 UTC	Dumaguete Aerodrom e Control Tower Supervisor -on-duty	<p style="text-align: center;">Issue AIPAF for cancellation of NOTAM C0610/19</p>	

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	to AIS NOTAM Office	<p>PRI: GG FT: 120420 120420 EUECYIYN (C0612/19 NOTAMC C0610/19 Q) RPHI/QSTCN/IV/NBO/A /000/999/0920N12318E005 A) RPVD B) 1909120420 E) VA EXERCISE APAC VOLCEX 19/02. CNL.)</p>	
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