



ICAO

International Civil Aviation Organization**WORKING PAPER****Twenty-fourth Meeting of the Meteorology Sub-group (MET SG/24) of the Asia and Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG)**

Web-conference, 16 – 20 Nov 2020

Agenda Item 4: Air navigation deficiencies related to the implementation of Meteorological Service**IMPLEMENTATION OF THE CORRECTIVE ACTION TO CLOSE THE SOLOMON ISLANDS DEFICIENCY AP-MET-23**

(Presented by Solomon Islands)

SUMMARY

This paper presents the corrective actions taken so far by Solomon Islands supported by New Zealand and Australia and the concurrence of the user on the implementation of the procedure to rectify the APANPIRG air navigation deficiency in the field of meteorology (AP-MET-23). The paper also outlines the next steps in the corrective action plan.

1. INTRODUCTION

1.1. The Solomon Islands was reported and listed in the APANPIRG list of air navigation deficiencies (Index No. **AP-MET-23**) over the years for not fully implementing the requirements on the issuance and proper dissemination of SIGMET for Honiara FIR.

1.2. The APANPIRG standard procedure for the removal of deficiency from the APANPIRG Deficiency Database is for the states to submit an official report to the ICAO Regional Office after implementing the corrective action and validated by the user who made the report.

1.3. As required, the Solomon Islands presented a WP/13 at the MET-SG/23 June 2019 meeting purposing to close AP-MET-23, however, meeting resolution 4.6 stated the requirements based on the APANPIRG procedural handbook requires that States provide a full report to ICAO on the corrective action taken to resolve a deficiency.

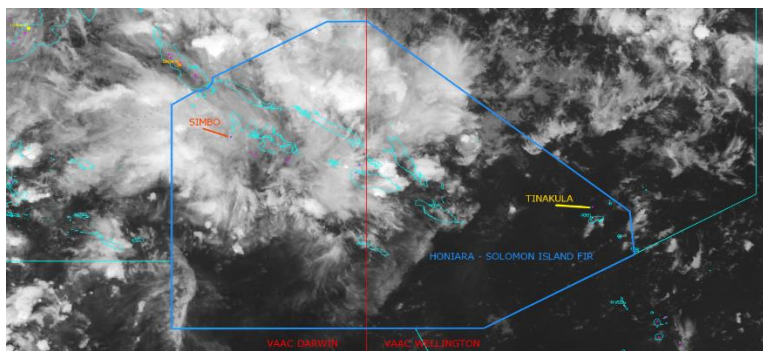
1.4. Honiara MWO Solomon Islands has now implemented SIGMET issuance for Honiara FIR and continued weather watch on 24/7. Most SIGMET reported was from TS WS SIGMET. Our cyclone season is from November – April every year and this year in April Honiara MWO has issued a WC SIGMET for cyclone Harold, *see Attachment 1- WS & WC SIGMET for TC Harold, April, 2020.*

1.5. Solomon Islands MET forecasters also attended the on-line trainings with Christy on SIGMET coordination using the Hong Kong SIGMET platform.

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1.6. An action was taken based on the MET-SG/23 resolutions 4.7 that New Zealand, Australia and in conjunction with support from States have assisted Solomon Islands with the Volcanic Ash (VA) Exercise and VA SIGMET in order to perform OPMET monitoring to support the validation of the corrective action and with the full report to enable APANPIRG to take note of the corrective actions to date.



(Fig 1) Map of the Honiara FIR, VAAC Darwin and VAAC Wellington Area of responsibility boundaries and Simbo and Tinakula volcanoes

1.7. As required, Solomon Islands submitted an official report on the Volcanic Ash Exercise (refer attachment 2) and the VA SIGMET issuance for Honiara FIR as part of the Corrective Action Plan (CAP).

2. DISCUSSION

Details of Corrective Action – Volcanic Ash Exercise for Solomon Islands Honiara FIR.

2.1. An action was taken by Solomon Islands to implement SIGMET issuance and to maintain Honiara MWO weather watch on 24/7 for SIGMET on WS, WC and WV for Honiara FIR. The most SIGMET occurrences are mainly on WS SIGMET, WC SIGMET occurred only during cyclone seasons and we yet to encounter WV SIGMET, therefore, WV SIGMET exercise is necessary for Solomon Islands.

2.2. The aim of the VA SIGMET exercise was to demonstrate the practice of applicable global and regional procedures including the provision/exchange of volcanic ash information between the parties involved and the intended recipients.

2.3. The exercise was conducted to show that there was timely exchange of ICAO compliant Volcanic Ash Advisories and Graphics (VAA/VAG) to correct users, timely exchange of ICAO compliant Volcanic Ash (VA) SIGMETs to correct users and receipt of all products at the relevant exchange in the region to verify dissemination.

2.4. The exercise would show if the current procedures for the issuance of VA SIGMET are in accordance with the ICAO SARPs.

2.5. The involvement of RODBs Bangkok, Brisbane, Singapore and Tokyo would serve as evidence of the dissemination of VA SIGMETs to correct users.

2.6. The Volcanic Ash Exercise for Solomon Islands Honiara FIR showed the dissemination of products to the 4 RODBs through AFTN but an incorrect WMO header for the SIGMET was used.

2.7. There were issues with the ICAO compliance of the VA SIGMET issued by Solomon Islands which warrants further follow up corrective actions to address as well as improving the understanding on volcanic ash given limited experience.

2.8. Further assistance from Australia and New Zealand is required to work towards the removal of the deficiency and will be outlined in the next section.

Details of further Corrective Actions to undertake

2.9. Solomon Islands to participate in the ICAO Asia and Pacific (APAC) SIGMET tests in December 2020 which will demonstrate issuance of other SIGMETs.

2.10. Australia and New Zealand to assist by:

2.10.1. Supporting Solomon Islands with issuing the VA SIGMET in the ICAO APAC SIGMET test on the 9 December

2.10.2. Reviewing current guidance materials and procedures for responding to volcanic ash and issuing ICAO compliant VA SIGMETs. This includes adding examples of VAAs and VA SIGMETs to capture different events

2.10.3. Conducting multiple offline training exercises to create ICAO compliant VA SIGMETs. The offline exercises will show if the guidance material provides suitable instructions for creating ICAO compliant VA SIGMETs.

2.10.4. Conducting full exercises to demonstrate the new understanding of volcanic ash procedures and issuance of timely and compliant VA SIGMETs. This will provide an official record of issuing compliant ICAO VA SIGMETs.

2.10.5. Continued interaction between Solomon Islands, Australia, and New Zealand operational staff on day to day activity.

3. ACTION BY THE MEETING

3.1. The meeting is invited to:

3.1.1. To note the Volcanic Ash Exercise Report Annex to this working paper.

3.1.2. Discuss the information contained in this paper; and

3.1.3. Review the further corrective actions to ensure they will provide the evidence to eventually remove the AP-MET-23 deficiency

ATTACHMENT 1: WS & WC SIGMET for TC Harold, April, 2020.

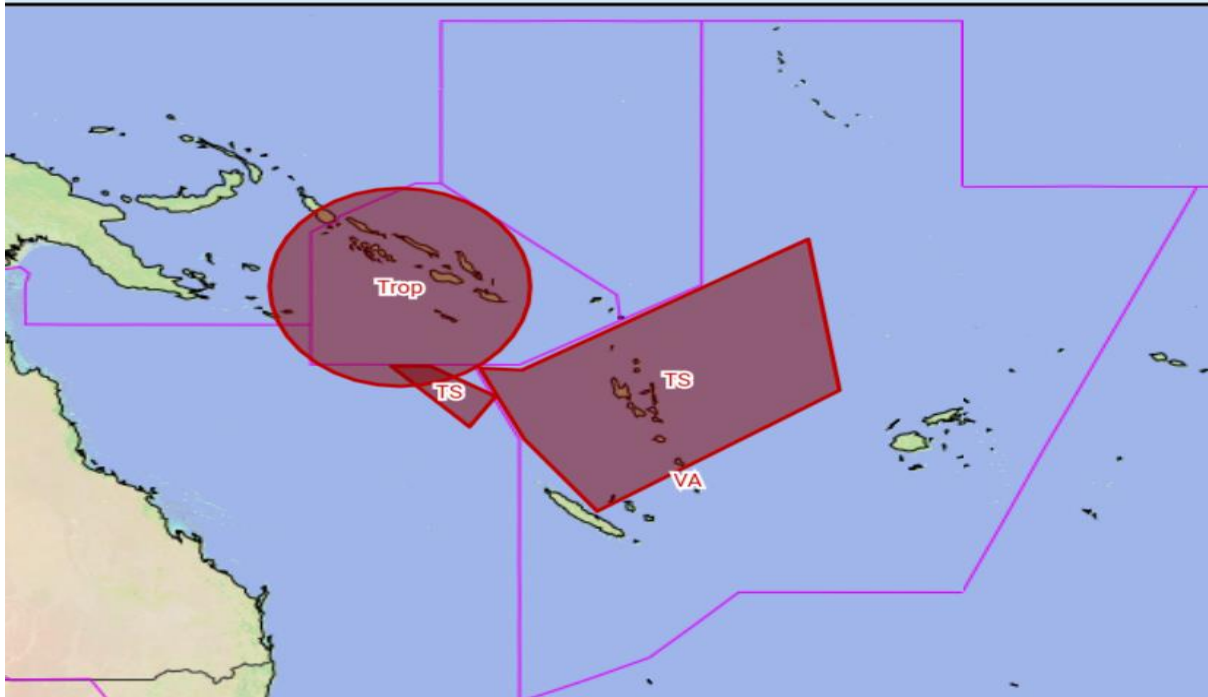


Fig A.0.1: Sources: www.aviationweather.gov Date: 3rd April, 2020 Time: 1823UTC

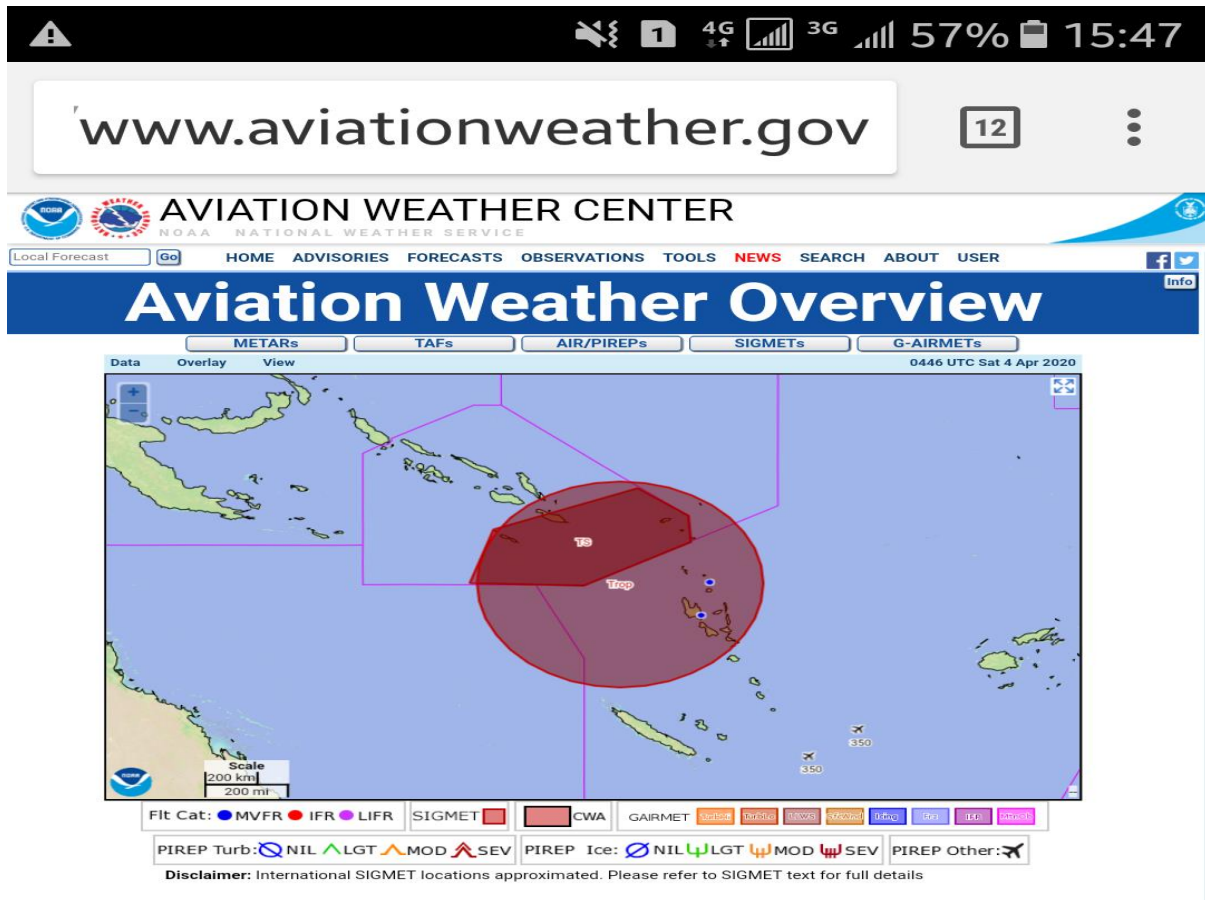


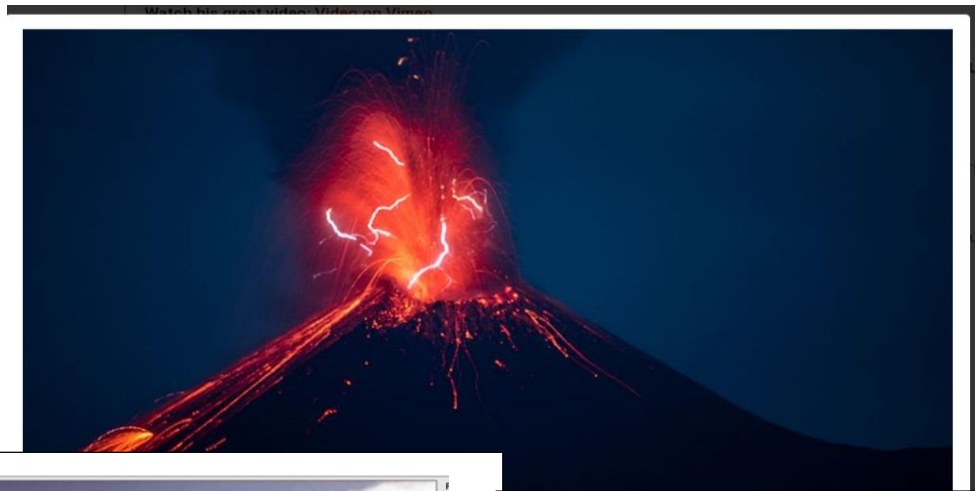
Fig A.0.2: Sources: www.aviationweather.gov Date: 3rd April, 2020 Time: 0447UTC
ATTACHMENT 2

ICAO ASIA/PACIFIC
VOLCANIC ASH EXERCISE
REPORT 2020
FOR
SOLOMON ISLANDS



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TINAKULA (Solomon Islands)



SIMBO (Solomon Islands)

Introduction:

1.1. VAAC Darwin and VAAC Wellington have conducted a minor exercise with Solomon Islands Meteorological Services to help with the open APANPIRG Air Navigation deficiencies in the MET field AP-MET-23 (SIGMET).

1.2. This was a stand-alone exercise organised to support Solomon Islands MWO. It was independent of VOLCEX and the annual ICAO SIGMET test, and had no impact to other operational services for the area.

1.3. The aim of the exercise was to demonstrate the practice of applicable global and regional procedures including the provision/exchange of volcanic ash information between the parties involved and the intended recipients. This exercise was conducted to show that there was timely exchange of compliant Volcanic Ash Advisories and Graphics (VAA/VAG) to correct users, timely exchange of compliant Volcanic Ash (VA) SIGMETs to correct users and receipt of all products at the relevant exchange in the region to verify dissemination.

2. Scenario

2.1. As the Solomon Islands FIR 'Honiara' is split between both VAACs, a volcano from each VAAC area of responsibility was used for the exercise. The volcanic ash from each volcano was simulated to affect both VAACs area of responsibility, in accordance with ICAO Doc 9766 Handbook on the International Airways Volcano Watch (IAVW), VAACs Darwin and Wellington acted as primary and secondary VAAC as appropriate to issue one harmonious VAA for the simulated volcanic ash cloud (Figure 1).

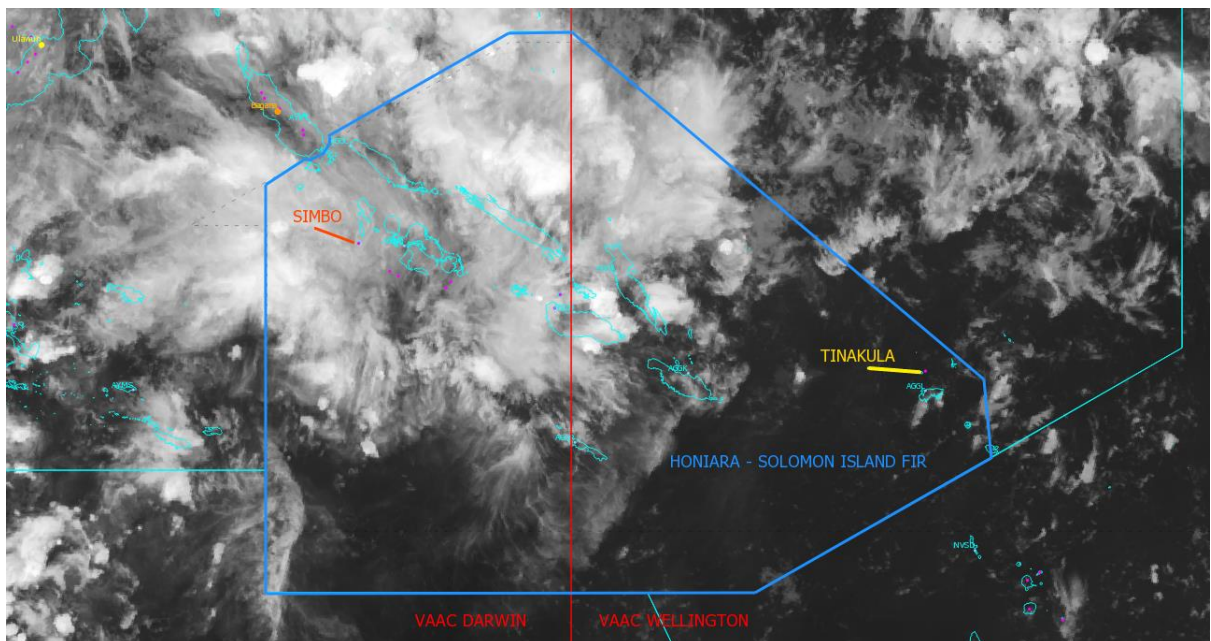


Figure 1. Map of the Honiara FIR, VAAC Darwin and VAAC Wellington Area of Responsibility boundaries and Simbo and Tinakula volcanoes

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2.2. The exercise was held from 0000 UTC 3 August to 0400 UTC 3 August 2020 with exercise participants VAAC Darwin, VAAC Wellington, Solomon Islands MWO and ATS, and RODBs Bangkok, Brisbane, Singapore and Tokyo. The exercise scenario featured eruptions from both Simbo in VAAC Darwin's area of responsibility and Tinakula in VAAC Wellington's area of responsibility with the exercised contained solely in the Honiara FIR. List of participants is recorded in Appendix A.

2.3. All exercise volcanic ash advisories and SIGMETs will use the status indicator "EXER".¹

3. Exercise timeline and debriefing

3.1. All exercise messages issued on the day have been recorded in Appendix B.

3.2. A NOTAM was issued by Solomon Islands Air Traffic Services (ATS) at 2230 UTC on 2 August to notify recipients of the upcoming exercise products. ROBD Bangkok asked if the NOTAM was issued before the exercises which flags who the NOTAM was disseminated to.

Identified action 1: Check the appropriate dissemination list for NOTAM as many participants didn't receive the product. Who is supposed to receive NOTAMs from Solomon Islands ATS.

3.3. The exercise started 0000 UTC. The first volcanic ash advisory (VAA) from VAAC Darwin was issued at 0003 UTC for volcanic activity at Simbo volcano to FL070 moving East. The VAA contained an observation polygon and a T+6-hour forecast. The WMO header for this product has an incorrect time. This can cause confusion for users searching for specific products or locating the most valid operational product. The VAA says FVAU03 ADRM 022100 but product was issued at 030003.

Identified action 2: VAAC Darwin to investigate the discrepancy in WMO header for its VAAs

3.4. VAAC Wellington issued the rebroadcast VAA, in accordance with IAVW, at 0006 UTC to direct users to the VAA issued by VAAC Darwin for Simbo volcano. The reporting from ROBD Brisbane showed that the VAA from VAAC Wellington was issued with priority GG. Guidance from Annex 3 is that products will be sent with the relevant priorities and priority indicator as specified in Annex 10 Volume 2 Chapter 4. Annex 10 suggests that FF priority indicator is used for

Meteorological messages restricted to SIGMET information, special air-reports, AIRMET messages, volcanic ash and tropical cyclone advisory information and amended forecasts.

3.5. The VAAC Wellington VAA appears to have GG priority indicator based on the information pulled from ROBD Brisbane.

¹ Annex 3 *Meteorological Service for International Air Navigation* Tables A6-1A and A2-1

Identified action 3: VAAC Wellington to follow up on priority indicator for VAAs.

3.6. Both VAAs were sent to Solomon Islands AFTN address AGGHYMYX and were received by Solomon Islands Air Traffic Services (ATS). The products were then forwarded to the Solomon Islands MWO and forecasting team.

3.7. Solomon Islands MWO prepared the VA SIGMET based the VAAC Darwin VAA but confirmed that both VAAs were received. The product was forwarded to Solomon Islands ATS for dissemination at 0042 UTC. ATS disseminated the VA SIGMET to the WAFC and RODB addresses in the exercise directive. Confirmation of the dissemination of VA SIGMET was seen in the external program Sky Vector (Figure 2).

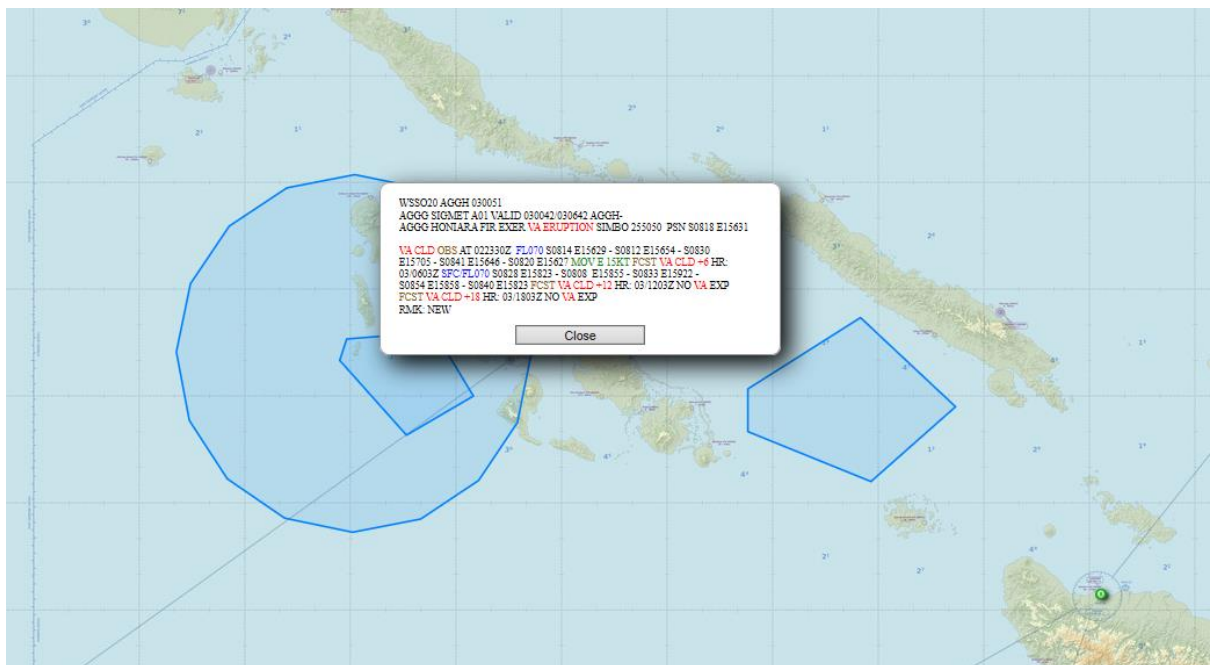


Figure 2. Snapshot of Sky Vector after the first VA SIGMET was issued based on the VAA from VAAC Darwin.

3.8. The VA SIGMET was received by all participants in the exercise. During the debriefing, RODB Tokyo mentioned the difficulty finding the VA SIGMET in the system but it was noted that the WMO header was incorrect. The header for VA SIGMETs is WV but the VA SIGMET from Solomon Islands MWO was issued with WS.

Identified action 4: Follow up on VA SIGMET header with Solomon Islands MWO and ATS. Which organisation adds the WMO header to the VA SIGMET.

3.9. The limited guidance on VA SIGMETs was provided in the exercise directive. The first VA SIGMET issued showed that more guidance was required to assist Solomon Islands

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MWO. There were a few other non-compliances with the VA SIGMET that will need to be addressed around the content and order of information in SIGMET.

Identified action 5: Follow up by VAACs Darwin and Wellington with further guidance materials on VAA and VA SIGMETs with Solomon Islands MWO. Conduct further offline exercises at a later date. Below is a corrected VA SIGMET for reference.

VAA Issued	VA SIGMET issued	VA SIGMET corrections
FVAU03 ADRM 022100 VA ADVISORY STATUS: EXER DTG: 20200803/0003Z VAAC: DARWIN VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2020/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: EXERCISE. DISCRETE VA ERUPTION TO FL070 MOV E OBS 02/2330Z OBS VA DTG: 03/ 0003Z OBS VA CLD: SFC/FL070 S0814 E15629 - S0812 E15654 - S0830 E15705 - S0841 E15646 - S0820 E15627 MOV E 15KT FCST VA CLD +6 HR: 03/ 0603Z SFC/FL070 S0828 E15823 - S0808 E15855 - S0833 E15922 - S0854 E15858 - S0840 E15823 FCST VA CLD +12 HR: 03/1203Z NO VA EXP FCST VA CLD +18 HR: 03/1803Z NO VA EXP RMK: EXERCISE EXERCISE. VA OBS ON VISIBLE SAT IMAGE MOVING EAST. HEIGHT AND FORECAST BASED ON HIMAWARI-8 DATA AND MODEL GUIDANCE. EXERCISE EXERCISE NXT ADVISORY: NO LATER THAN 20200803/0603Z	WSSO20 AGGH 030051 AGGG SIGMET A01 VALID 030042/030642 AGGH- AGGG HONIARA FIR EXER VA ERUPTION SIMBO 255050 PSN S0818 E15631 VA CLD OBS AT 022330Z FL070 S0814 E15629 - S0812 E15654 - S0830 E15705 - S0841 E15646 - S0820 E15627 MOV E 15KT FCST VA CLD +6 HR: 03/0603Z SFC/FL070 S0828 E15823 - S0808 E15855 - S0833 E15922 - S0854 E15858 - S0840 E15823 FCST VA CLD +12 HR: 03/1203Z NO VA EXP FCST VA CLD +18 HR: 03/1803Z NO VA EXP RMK: NEW	WWSO20 AGGH 030051 AGGG SIGMET A01 VALID 030042/030642 AGGH- AGGG HONIARA FIR EXER VA ERUPTION MT SIMBO PSN S0818 E15631 VA CLD OBS AT 0003Z WI S0814 E15629 - S0812 E15654 - S0830 E15705 - S0841 E15646 - S0820 E15627 SFC/FL070 FCST AT 0603Z WI S0828 E15823 - S0808 E15855 - S0833 E15922 - S0854 E15858 - S0840 E15823=

3.10. A second VAA was issued by VAAC Darwin for Simbo volcano to finalise the first event at 0103 UTC. The VAA WMO header again had an old time, the header was FVAU03 ADRM 0000 but the product was issued at 0103 UTC. This will be followed up under Identified action 2.

3.11. A rebroadcast VAA was issued by VAAC Wellington to finalise the rebroadcasting of the event. The VAAs from both VAACs were received by Solomon Islands ATS and MWO.

3.12. A cancellation VA SIGMET was issued by MWO Solomon Islands to finalise the first event at 0117 UTC. The VA SIGMET was issued with the incorrect WMO header and

appears as a thunderstorm WS SIGMET. During the debriefing, Solomon Islands MWO received the VAA products from Solomon Islands ATS in the wrong order. The VAA from VAAC Wellington was received first followed by the VAA from VAAC Darwin.

Identified action 6: Solomon Islands to review the procedures for e-mailing products between ATS and MWO for correct addresses.

3.13. Between the end of the first part of the exercise and the beginning of the second part to the exercise. There were discussions with Solomon Islands MWO to try to address some of the VA SIGMET issues. Due to this, the first VAA from VAAC Wellington was delayed and issued at 0223 UTC for eruption at Tinakula.

3.14. VAAC Darwin issued the rebroadcast VAA at 0226 UTC to direct users to the VAA issued by VAAC Wellington.

3.15. Both VAAs were sent to Solomon Islands AFTN address AGGHYMYX and were received by Solomon Islands Air Traffic Services (ATS). The products were then forwarded to the MWO and forecasting team.

3.16. MWO Solomon Islands prepared the VA SIGMET based the VAAC Wellington VAA and confirmed that both VAAs were received by the MWO. The product was forwarded to Solomon Islands ATS for dissemination at 0235 UTC. ATS disseminated the VA SIGMET to the WAFC and RODB addresses in the exercise directive.

3.17. There were similar issues with the content of the VA SIGMET from Solomon Islands MWO.

3.18. A VAA was issued by VAAC Wellington for Tinakula volcano to finalise the first event at 0300 UTC.

3.19. A rebroadcast VAA was issued by VAAC Darwin to finalise the rebroadcasting of the event at 0303 UTC. The VAAs from both VAACs were received by Solomon Islands ATS and MWO.

3.20. A cancellation VA SIGMET was issued by MWO Solomon Islands at 0314 UTC to finalise the exercise. All exercise messages have been recorded in Appendix B.

3.21. Debriefing discussion was held at 0400 UTC to reflect on the exercise. This gave participants the chance to raise any issues, highlight things that went well and what didn't go well.

3.22. Figure 3 and 4 showed the ingest of products into the JMA VAAC collaboration tool. The VAAs were ingested correctly in the tool; however, the VA SIGMET came up as a decode error.

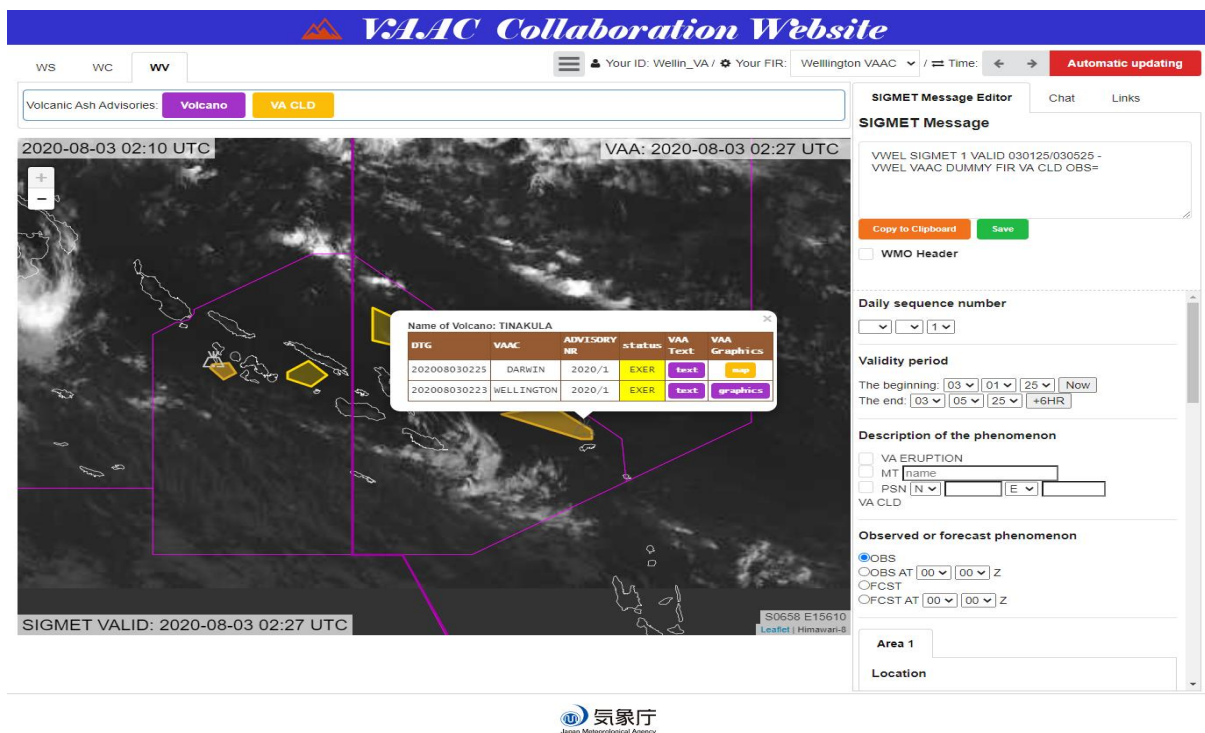


Figure 3. Japan Meteorological Agency (JMA) VAAC collaboration tool used during the exercise. Shows the VAAs ingested correctly into the system.

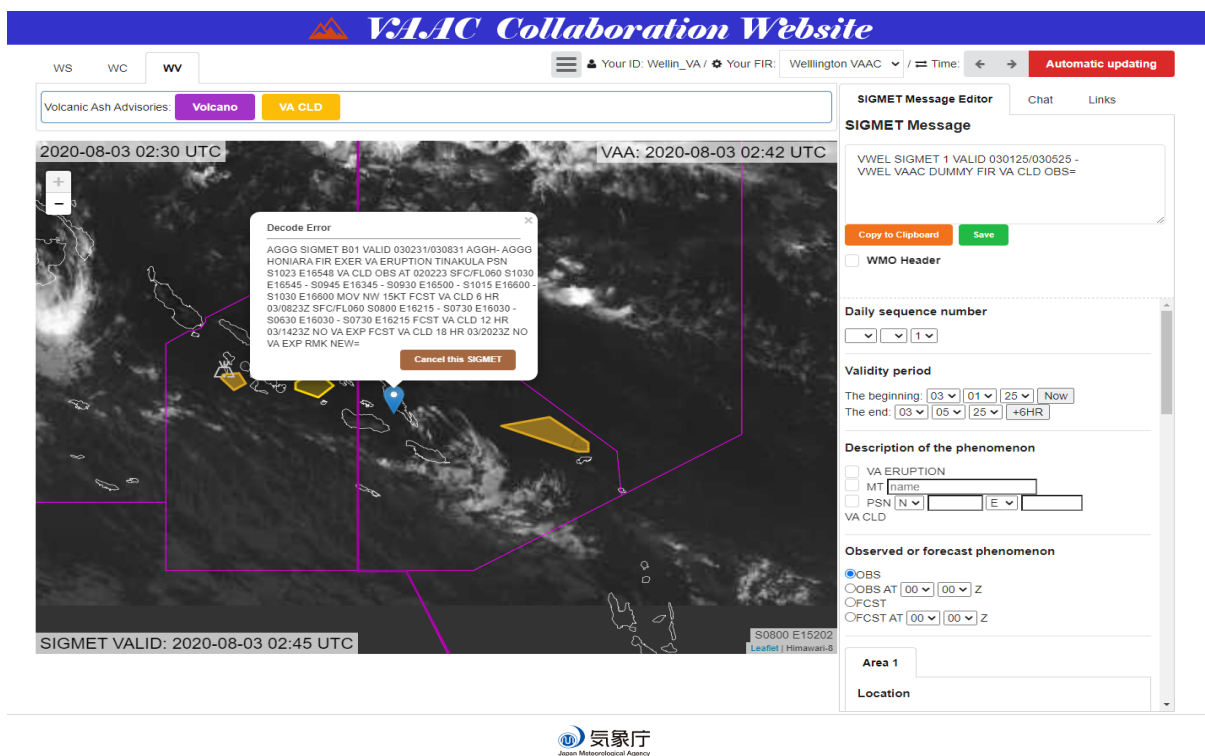


Figure 4. Japan Meteorological Agency (JMA) VAAC collaboration tool used during the exercise. Decode error appeared when the VA SIGMETs were ingested into the system. The JMA tool also has the ability to create a VA SIGMET.

Appendix A – Participants

Area of Responsibility	Agency	Contact	Email
Volcanic Ash Advisory Information (VAA/VAG)	VAAC Darwin	Jarrad Denman	Jarrad.denman@bom.gov.au
	VAAC Wellington	Marcel Roux	Marcel.Roux@metSERVICE.com Nicole.Ranger@metSERVICE.com
SIGMET	Solomon Islands Meteorological Services	Solomon Sammy Eddie Maru	S.Sammy@met.gov.sb eddie.maru0@gmail.com
ATS	Solomon Islands Air Traffic Service (ATS)	Paul Kito	PKito@mca.gov.sb
RODB	Singapore Bangkok Tokyo Brisbane	Chow Wah Kwok Bee Hong Gan Naris Kentaro Tsuboi Pierre Kemmers	Chow_kwok_Wah@nea.gov.sg GAN_Bee_Hong@nea.gov.sg vtbbypyx@aerothai.co.th k-tsuboi@met.kishou.go.jp Pierre.kemmers@airservicesaustralia.com

Appendix B – Exercise messages

Time (UTC)	Agency	Product	Received	
02/2230 UTC	Solomon Islands ATS	NOTAM	RODB Brisbane (2230 UTC)	YLA0232 2008022230 GG YBZZNDGX YBBBZEZX NFFNAMHS NFOFYNYX AYPMYNYX LSZZNAAG LSSNYNYX EUECYIYN RJAAANYX AGGHZTZX 022230 AGGHYNYX (A0107/20 NOTAMN Q)AGGG/QFMXX/IV/M/AE/000/999/ A)AGGG B)2008030000 C)2008030400 D)BTN 030000UTC-030400UTC E)VA SIGMENT EXER BTN VAAC DARWIN, VAAC WELLINGTON AND SOLOMON ISLANDS MET WX OFFICE. EXER INCLUDES SIMBO VOLCANO (255050) AT PSN: S0817 E15631 AND TINAKULA (256010)PSN: S1023 E16548.EXER VOLCANIC ASH ADVISORIES AND EXER SIGMETS WILL USE STATUS INDICATOR 'EXER' AS PER ANNEX 3. EXER CONTAINED WITH AGGG FIR FOR BENEFIT OF SI MET WX OFFICE TO RESPOND.)
03/0003	VAAC Darwin	VAA	Solomon Islands ATS and MWO (0003 UTC) VAAC Wellington (yes) RODB Tokyo (0003 UTC) RODB Singapore (?) RODB Bangkok (0003 UTC) RODB Brisbane (0003 UTC)	OBM0438 030003 FF YBZZPUXX 030003 YMMCYMYX FVAU03 ADRM 022100 VA ADVISORY STATUS: EXER DTG: 20200803/0003Z VAAC: DARWIN VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS

				SUMMIT ELEV: 335M ADVISORY NR: 2020/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: EXERCISE. DISCRETE VA ERUPTION TO FL070 MOV E OBS 02/2330Z OBS VA DTG: 03/0003Z OBS VA CLD: SFC/FL070 S0814 E15629 - S0812 E15654 - S0830 E15705 - S0841 E15646 - S0820 E15627 MOV E 15KT FCST VA CLD +6 HR: 03/0603Z SFC/FL070 S0828 E15823 - S0808 E15855 - S0833 E15922 - S0854 E15858 - S0840 E15823 FCST VA CLD +12 HR: 03/1203Z NO VA EXP FCST VA CLD +18 HR: 03/1803Z NO VA EXP RMK: EXERCISE EXERCISE. VA OBS ON VISIBLE SAT IMAGE MOVING EAST. HEIGHT AND FORECAST BASED ON HIMAWARI-8 DATA AND MODEL GUIDANCE. EXERCISE EXERCISE NXT ADVISORY: NO LATER THAN 20200803/0603Z
0006	VAAC Wellington	VAA	Solomon Islands ATS and MWO (0006 UTC) VAAC Darwin (0006 UTC) RODB Tokyo (0006 UTC) RODB Singapore (0006 UTC) RODB Bangkok (0008 UTC) RODB Brisbane (0006 UTC)	ABA0021 030006 GG YBBBVOZM YBBBYPYX YBZZMANX YMMCYMYX YPDMYMYX 030006 NZKLYMYK FVPS01 NZKL 030006 VA ADVISORY STATUS: EXER DTG: 20200803/0006Z VAAC: WELLINGTON VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2020/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: NIL ERUPTION DETAILS: EXERCISE OBS VA DTG: 03/0006Z

				<p>OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA FCST VA CLD +6 HR: 03/0606Z NO VA EXP FCST VA CLD +12 HR: 03/1206Z NO VA EXP FCST VA CLD +18 HR: 03/1806Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS PLEASE SEE FVAU03 ADRM 022100 ISSUED BY VAAC DARWIN WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC WELLINGTON AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO LATER THAN 20200803/0606Z</p>
0051	Solomon Islands MWO	VA SIGMET	<p>VAAC Darwin (0053 UTC) VAAC Wellington (note 1) RODB Tokyo (0053 UTC) RODB Singapore (0053 UTC) RODB Bangkok (0053 UTC) RODB Brisbane (0053 UTC)</p>	<p>YLA0028 2008030053 FF YBZZHONX 030053 AGGHYMYX WSSO20 AGGH 030051 AGGG SIGMET A01 VALID 030042/030642 AGGH- AGGG HONIARA FIR EXER VA ERUPTION SIMBO 255050 PSN S0818 E15631</p> <p>VA CLD OBS AT 022330Z FL070 S0814 E15629 - S0812 E15654 - S0830 E15705 - S0841 E15646 - S0820 E15627 MOV E 15KT FCST VA CLD +6 HR: 03/0603Z SFC/FL070 S0828 E15823 - S0808 E15855 - S0833 E15922 - S0854 E15858 - S0840 E15823 FCST VA CLD +12 HR: 03/1203Z NO VA EXP FCST VA CLD +18 HR: 03/1803Z NO VA EXP RMK: NEW</p>
0103	VAAC Darwin	VAA	<p>Solomon Islands ATS and MWO (0103 UTC) VAAC Wellington (yes) RODB Tokyo (0103 UTC) RODB Singapore (0103 UTC) RODB Bangkok (0103 UTC)</p>	<p>OBM2321 030103 FF YBZZPUXX 030103 YMMCYMYX FVAU03 ADRM 030000 VA ADVISORY STATUS: EXER DTG: 20200803/0103Z VAAC: DARWIN VOLCANO: SIMBO 255050</p>

			RODB Brisbane (0103 UTC)	PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2020/2 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: EXERCISE. VA TO FL070 LAST OBS 02/2330Z OBS VA DTG: 03/0103Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND SFC/FL070 VRB05KT FCST VA CLD +6 HR: 03/0703Z NO VA EXP FCST VA CLD +12 HR: 03/1303Z NO VA EXP FCST VA CLD +18 HR: 03/1903Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS. SOLOMON ISLANDS TO RESPOND WITH APPROPRIATE SIGMET. EVERYONE ELSE PLEASE DISREGARD. VA HAS DISSIPATED, NO FURTHER VA EXPECTED IN THE AREA. ADVISORY TERMINATED. EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES
0105	VAAC Wellington	VAA	Solomon Islands ATS and MWO (0105 UTC) VAAC Darwin (0106 UTC) RODB Tokyo (0105 UTC) RODB Singapore (0105 UTC) RODB Bangkok (0106 UTC) RODB Brisbane (0105 UTC)	ABA0117 030105 GG YBBBVOZM YBBBYPYX YBZZMANX YMMCXYMYX YPDMYMYX 030105 NZKLYMYK FVPS01 NZKL 030105 VA ADVISORY STATUS: EXER DTG: 20200803/0105Z VAAC: WELLINGTON VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2020/2 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: NIL

				<p>ERUPTION DETAILS: EXERCISE OBS VA DTG: 03/0105Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA FCST VA CLD +6 HR: 03/0705Z NO VA EXP FCST VA CLD +12 HR: 03/1305Z NO VA EXP FCST VA CLD +18 HR: 03/1905Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS PLEASE SEE FVAU03 ADRM 030000 ISSUED BY VAAC DARWIN WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC WELLINGTON AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES</p>
0117	Solomon Islands MWO	VA SIGMET	<p>VAAC Darwin (119 UTC) VAAC Wellington (note 1) RODB Tokyo (0119 UTC) RODB Singapore (0119 UTC) RODB Bangkok (0119 UTC) RODB Brisbane (0119 UTC)</p>	<p>YLA0039 2008030119 FF YBZZHONX 030119 AGGHYMYX WSSO20 AGGH 030118 AGGG SIGMET A02 VALID 030118/030642 AGGH- AGGG HONIARA FIR EXER CNL SIGMET A01 VALID 030042/030642 RMKS: CNL SIGMET A01 VALID 030042/030642</p>
0223	VAAC Wellington	VAA	<p>Solomon Islands ATS and MWO (0223 UTC) VAAC Darwin (0223 UTC) RODB Tokyo (0223 UTC) RODB Singapore (0223 UTC) RODB Bangkok (0223 UTC)</p>	<p>ABA0239 030223 GG YBBBVOZM YBBBYPYX YBZZMANX YMMCYMYX YPDMYMYX 030223 NZKLYMYK FVPS04 NZKL 030223 VA ADVISORY STATUS: EXER DTG: 20200803/0223Z VAAC: WELLINGTON VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS</p>

			RODB Brisbane (0223 UTC)	SUMMIT ELEV: 851M ADVISORY NR: 2020/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: NIL ERUPTION DETAILS: EXERCISE OBS VA DTG: 03/0223Z OBS VA CLD: SFC/FL060 S1030 E16545 - S0945 E16345 - S0930 E16500 - S1015 E16600 - S1030 E16600 MOV NW 15KT FCST VA CLD +6 HR: 03/0823Z SFC/FL060 S0800 E16215 - S0730 E16030 - S0630 E16030 - S0730 E16215 FCST VA CLD +12 HR: 03/1423Z NO VA EXP FCST VA CLD +18 HR: 03/2023Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS. SOLOMON ISLANDS TO RESPOND WITH APPROPRIATE SIGMET. EVERYONE ELSE PLEASE DISREGARD. EXERCISE EXERCISE NXT ADVISORY: NO LATER THAN 20200803/0823Z
0226	VAAC Darwin	VAA	Solomon Islands ATS and MWO (0226 UTC) VAAC Wellington (yes) RODB Tokyo (0226 UTC) RODB Singapore (0226 UTC) RODB Bangkok (0226 UTC) RODB Brisbane (0226 UTC)	OBM4380 030226 FF YBZZPUXX 030226 YMMCYMYX FVAU04 ADRM 030000 VA ADVISORY STATUS: EXER DTG: 20200803/0225Z VAAC: DARWIN VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS SUMMIT ELEV: 851M ADVISORY NR: 2020/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: NIL ERUPTION DETAILS: EXERCISE OBS VA DTG: 03/0225Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND

				<p>SFC/FL070 140/15KT FCST VA CLD +6 HR: 03/0825Z NO VA EXP FCST VA CLD +12 HR: 03/1425Z NO VA EXP FCST VA CLD +18 HR: 03/2025Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS PLEASE SEE FVPS04 NZKL 030223 ISSUED BY VAAC WELLINGTON WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC DARWIN AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO LATER THAN 20200803/0825Z</p>
0235	Solomon Islands MWO	VA SIGMET	<p>VAAC Darwin (0236 UTC) VAAC Wellington (note 1) RODB Tokyo (0236 UTC) RODB Singapore (0236 UTC) RODB Bangkok (0236 UTC) RODB Brisbane (0236 UTC)</p>	<p>YLA0079 2008030236 FF YBZZHONX 030236 AGGHYMYX WSSO20 AGGH 030235 AGGG SIGMET B01 VALID 030231/030831 AGGH- AGGG HONIARA FIR EXER VA ERUPTION TINAKULA PSN S1023 E16548 VA CLD OBS AT 020223 SFC/FL060 S1030 E16545 - S0945 E16345 - S0930 E16500 - S1015 E16600 - S1030 E16600 MOV NW 15KT FCST VA CLD +6 HR: 03/0823Z SFC/FL060 S0800 E16215 - S0730 E16030 - S0630 E16030 - S0730 E16215 FCST VA CLD +12 HR: 03/1423Z NO VA EXP FCST VA CLD +18 HR: 03/2023Z NO VA EXP RMK: NEW=</p>
0300	VAAC Wellington	VAA	<p>Solomon Islands ATS and MWO (0301 UTC) VAAC Darwin (0301 UTC) RODB Tokyo (0300 UTC) RODB Singapore (0300 UTC)</p>	<p>ABA0315 030300 GG YBBBVOZM YBBBYPYX YBZZMANX YMMCXYMYX YPDMYMYX 030300 NZKLYMYK FVPS04 NZKL 030300 VA ADVISORY STATUS: EXER DTG: 20200803/0300Z VAAC: WELLINGTON</p>

			RODB Bangkok (0302 UTC) RODB Brisbane (0300 UTC)	VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS SUMMIT ELEV: 851M ADVISORY NR: 2020/2 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: NIL ERUPTION DETAILS: EXERCISE OBS VA DTG: 03/0300Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA FCST VA CLD +6 HR: 03/0900Z NO VA EXP FCST VA CLD +12 HR: 03/1500Z NO VA EXP FCST VA CLD +18 HR: 03/2100Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS. SOLOMON ISLANDS TO RESPOND WITH APPROPRIATE SIGMET. EVERYONE ELSE PLEASE DISREGARD. EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES
0303	VAAC Darwin	VAA	Solomon Islands ATS and MWO (0304 UTC) VAAC Wellington (yes) RODB Tokyo (0304 UTC) RODB Singapore (0304 UTC) RODB Bangkok (0304 UTC) RODB Brisbane (0304 UTC)	OBM5667 030304 FF YBZZPUXX 030304 YMMCYMYX FVAU04 ADRM 030000 VA ADVISORY STATUS: EXER DTG: 20200803/0303Z VAAC: DARWIN VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS SUMMIT ELEV: 851M ADVISORY NR: 2020/2 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: NIL ERUPTION DETAILS: EXERCISE OBS VA DTG: 03/0303Z

				<p>OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND SFC/FL070 140/15KT FCST VA CLD +6 HR: 03/0903Z NO VA EXP FCST VA CLD +12 HR: 03/1503Z NO VA EXP FCST VA CLD +18 HR: 03/2103Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS PLEASE SEE FVPS04 NZKL 030300 ISSUED BY VAAC WELLINGTON WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC DARWIN AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES</p>
0314	Solomon Islands MWO	VA SIGMET	<p>VAAC Darwin (0316 UTC) VAAC Wellington (note 1) RODB Tokyo (0316 UTC) RODB Singapore (0316 UTC) RODB Bangkok (0316 UTC) RODB Brisbane (0316 UTC)</p>	<p>YLA0099 2008030316 FF YBZZHONX 030316 AGGHYMYX WSSO20 AGGH 030314 AGGG SIGMET B02 VALID 030308/030831 AGGH- AGGG HONIARA FIR EXER CNL SIGMET B01 VALID 030231/030831 RMKS: CNL SIGMET B01 VALID 030231/030831=</p>

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END OF REPORT