

International Civil Aviation Organization

ICAO

WORKING PAPER**ICAO Asia and Pacific (APAC)**Twenty-Sixth Meeting of the Meteorology Sub-Group
(MET SG/26)

Online, 1 to 5 August 2022

Agenda Item 3: Air navigation deficiency**UPDATE ON MET DEFICIENCY AP-MET-23**

(Presented by Solomon Islands)

SUMMARY

This paper outlines the work done by Solomon Islands on resolving deficiency AP-MET-23, following the corrective action agreed by MET SG/25 on the content, format and timeliness of SIGMET. The information provided in this paper is evidence for possible consideration by MET SG to support the removal of deficiency AP-MET-23 from the APANPIRG list.

1. INTRODUCTION

1.1 The Asia/Pacific (APAC) Air Navigation Planning and Implementation Regional Group (APANPIRG) deficiency (index no.) AP-MET-23¹ was first registered under Solomon Islands in September 2011. One of the initiatives by Solomon Islands is to take over the responsibility of the Meteorological Watch Office (MWO) service for the Honiara Flight Information Region (FIR) from Papua New Guinea (PNG) to address the SIGMET deficiency. In 2019, Solomon Islands started reporting to the MET SG Meeting on the corrective action initiative on the SIGMET for Honiara FIR.

1.2 In April 2015, Solomon Islands took over the MWO responsibility for Honiara FIR from PNG (NWS²) by signing a Memorandum of Understanding (MoU) with PNG.

1.3 As part of the take-over transition, the BoM³ conducted refresher training for all Aviation Meteorological (MET) Forecasters and conducted the Competency Assessments.

1.4 Honiara MWO (operated by the SIMS⁴) started the issuance of SIGMET for Honiara FIR in 2018.

¹ For details, refer to the *Reporting Form on Air Navigation Deficiencies in the MET Field in the Asia/Pac Region* (Appendix D to the APANPIRG/32 Report on Agenda Item 4)

² (Papua New Guinea) National Weather Service

³ (Australian Government) Bureau of Meteorology

⁴ Solomon Islands Meteorological Service

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1.5 The discussion below covers the corrective actions implemented by Solomon Islands based on the discussion and action agreed upon by MET SG/25, as documented in the MET SG/25 Report, para. 4.15.-4.18., including MET SG/25 Action No. 25/10 (see below).

Extract from MET SG/25 LIST OF ACTIONS				
Action No.	Detailed description of actions	Responsibility	Target date	Status
25/10	Assist the Solomon Islands in aligning procedures with ICAO Annex 3, conducting SIGMET monitoring by RODBs and follow-up SIGMET tests to demonstrate ICAO-compliant content, format and timeliness of SIGMET information service and its sustainability [Ref: para. 4.15.-4.18.]	Solomon Islands, Secretariat, Australia and New Zealand	Feb 2022	To commence

2. DISCUSSION

Corrective Action Plan and Implementation

2.1 The Solomon Islands' corrective action plan involved participation in SIGMET tests, training, volcanic ash exercises and collaboration with various operational units in Australia, Hong Kong, China, Fiji and New Zealand, and the World Meteorological Organization (WMO). The actions helped Solomon Islands to address issues concerning SIGMET content, format and timeliness.

2.2 In collaboration with New Zealand and Australia, Solomon Islands has developed a log to capture all SIGMETs issued by Honiara MWO over at least 60 days.

Evidence of MET deficiency resolution

2.3 SIGMET tests are an annual event organised by the ICAO APAC Office; Solomon Islands participated in the December 2021 SIGMET tests. See the evidence in **Appendix A**.

2.4 Training is part of the action plan to address the SIGMET deficiency. For instance, errors reported (in SIGMET tests) have been addressed in the refresher training for Air Traffic Services (ATS) and MET personnel. In addition, Volcanic Ash Advisory Centres (VAACs) Wellington and Darwin, Tropical Cyclone Advisory Centres (TCACs) Nadi and Brisbane, and Hong Kong Observatory were invited and provided presentations as part of the training. See the evidence in **Appendix B**.

2.5 Participating in a Volcanic Ash Exercise was also part of the corrective action. Solomon Islands would like to thank Australia and New Zealand for supporting this exercise. See the evidence in **Appendix C**.

2.6 Collaboration with (operational units in) other States also supports Solomon Islands in addressing SIGMET deficiencies; for example, SIGMET coordination in collaboration with Fiji using the HKO SIGMET (Coordination) Platform, and VAACs Wellington and Darwin using "Microsoft team chat".

2.7 In addition, Solomon Islands collaborated with New Zealand and Australia to log all SIGMETs issued (by Solomon Islands) over at least 60 days (including WC-, WS- and WV-SIGMET messages) from March – April 2022. See the evidence in **Appendix D**.

2.8 Solomon Islands will now capture another period of SIGMET data to show that the workshop and training has improved the SIGMET process compared to the last data capture.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- i. Note the information contained in this paper; and
- ii. Formulate a Draft Conclusion for the removal of the deficiency AP-MET-23 from the APANPIRG Deficiency Database, subject to confirmation that corrective actions have been successfully implemented and quality controlled checked.

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APPENDIX A**1. ICAO APAC SIGMET tests 2021**

1.1 ICAO State letter Ref: T 4/7.5 – AP169/21, dated 21 October 2021, provided the ICAO APAC SIGMET tests 2021 procedures and the following schedule:

- 08 December – [WC] SIGMET test for tropical cyclone
- 15 December – [WV] SIGMET test for volcanic ash
- 22 December – [WS] SIGMET test for weather and other phenomena apart from tropical cyclone and volcanic ash

1.2 Following the procedures, the designated SIGMET test focal points submitted the reports of the ICAO APAC SIGMET tests 2021 for review by the Twentieth Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/20). For details, refer to MET/IE WG/20, WP/C02⁵ and WP/C01⁶.

2. Participation by Solomon Islands in the ICAO APAC SIGMET tests 2021

2.1 The results presented to MET/IE WG/20 in WP/C02, Appendices 5 and 6, and WP/C01, Appendix 1, indicated that SIGMET test messages from Solomon Islands (MWO Honiara) were received as expected during all the SIGMET tests on 08, 15 and 22 December 2021.

2.2 In addition, WP/C02 indicated that during the 15 December SIGMET test (for volcanic ash), the SIGMET test message from MWO Honiara was initially received with an incorrect data type designator for volcanic ash (i.e., WS). However, the message was subsequently resent and received with the correct data type designator for volcanic ash (i.e., WV).

2.3 The error (discussed above) occurred during the internal message transfer process from the MWO to the ATS system before the ATS system disseminated the SIGMET message externally via the Aeronautical Fixed Telecommunication Network (AFTN). To prevent the same issue from recurring, corrective action was addressed by the ATS/MET Refresher Workshop/Training in 2022.

⁵ https://www.icao.int/APAC/Meetings/2022%20METIE%20WG20/WPC02_AI.C2_JPN_RESULT-OF-SIGMET-TESTS-2021-WC-AND-WV.pdf

⁶ https://www.icao.int/APAC/Meetings/2022%20METIE%20WG20/WPC01_AI.C2_SIN_REVIEW-OF-WS-SIGMET-TEST-2021.pdf



Ministry of Environment, Climate Change, Disaster Management & Meteorology
P.O. Box 21
Honiara, Solomon Islands

ATS/MET TRAINING/WORKSHOP REPORT

Dates: 27th May and 07th June, 2022

Report Summary

The overall delivery of the Workshop/Training was successfully even though the last day of the Workshop/Training was further moved forward, the first day was conducted on 27th May and the final was conducted on 07th June, 2022 due to some of the resource person in the workshop were on duty travel. The Workshop/Training was organized face to face (in-house) delivery for Honiara participates and Zoom on-line delivery from New Zealand/Australia experts, Hong Kong Observatory, those on duty and the Provincial MET Stations Officers join on line by Zoom. We also have two participants from PNG National Weather Services (PNGNWS) who joined by Zoom on-line as an observer.

The first day on 27th May, 2022 Training/Workshop is for ATS & MET purposely to brief all Forecasters who mane the Meteorological Watch Office (MWO) and the ATS Communication Officers who are manning the CADAS/AFTN system in Honiara. This Training Workshop is essential and urgent to deliver in respond to the ICAO APANPIRG Air Navigation Deficiency AP-MET-23 registered under Solomon Islands for the issuance of SIGMET for Honiara FIR and the SIMS Work Plan 2022. This Training Workshop is part of the Corrective Action initiative taken by Solomon Islands to address and close the deficiency and the 2022 Work Plan.

The final day of the workshop/training was conducted on 07th June, 2022. This one-day Training/Workshop purposely to Brief all Forecasters and MET Technicians who mane the Meteorological Stations and offices. The Sessions are essential and urgent for all Forecasters and all MET Technicians to be refreshed on specific identified areas of the SIMS by the Head of Section. Since of the COVID-19 pandemic only 15 participants are invited for the face to face but most access the Sessions by Zoom online, including those from the Provincial Met. Stations.

WORKSHOP TOOLS USED:

1. Power point projector.
2. Zoom Camera
3. Sound System, Speakers and Microphones.
4. 4G Router using internet data for Zoom on-line delivery and access by others online.
5. Stationeries for all participants.

1st Day – 27th May, 2022:



ATS & MET Group photo, Photo source: Alex Rilifia
(Missing from the group photo Max Maniau and Alex)

Sessions and Presenters:

0900am – 1000am	Welcome & House Keeping introduction to the Training/ Workshop.	MC-Eddie Maru
	Opening address:	Lloyd Tahani (DDSIMS)
	Workshop Opening Prayer:	Solomon Sammy
1000am-1020am	Presentation from the Head of Forecasting (MWO) SIGMET .	Eddie Maru
1020am-1040am	ATS Presentation on CADAS	Paul Kito
1040am-1100am	AM TEA BREAK	
1100am-1130am	Tropical Cyclone Advisories from Brisbane, TCAC, Australia.	David Grant: Queensland Fire and Emergency Services
1130am-1200pm	Tropical Cyclone Advisories from Nadi, TCAC, Fiji.	Stephen Meke. Fiji Warning Centre
1200pm-1230pm	Combine Presentations from Darwin & Wellington Volcanic Ash Advisories (VAA) & SIGMET and other identified gaps.	Dr. Jarrad (Darwin VAC) Nicole (Wellington VAC)
1230pm-0130pm	LUNCH BREAK	
0130pm-0230pm	SIGMET Coordination presentation from HKO	Christy Leung
0230pm-0300pm	Presentation from QMS office on QMS & SMS requirements, Quality Assurance and Safety.	Solomon Sammy
0300pm-0330pm	PM TEA BREAK	
0330pm-0400pm	Presentation from AIS and NOTAM	Max Maniau
0400pm-0430pm	Closing remarks from CMO/F	Eddie Maru
	Closing prayer	Solomon Sammy

Final Day – 07th June, 2022:



ATS & MET Group photo, Photo source: Alex Rilifia
(Missing from the group photo is Alex)

Sessions and Presenters:

0900am – 1000am	Welcome & House Keeping introduction to the Training/ Workshop.	MC-Eddie Maru
	Opening address:	David Hiriasia
	Workshop Opening Prayer:	Solomon Sammy
1000am-1100am	Forecasts Refresher Training on identified gaps and feedbacks on forecasts by the Head of Forecasting.	Eddie Maru
	Questions & Discussions	
1100am-1130am	AM TEA BREAK	
1130am-1230pm	QMS and Safety Promotions... Work Place Safety, raised by CASSI Audit,	Solomon Sammy
1230pm-0200pm	LUNCH BREAK	
0200pm-0230pm	Refreshing Trainings related to AAXX Observations for Forecasters and MET Technicians: ➤ Synoptic Observations.	Robert Haukare
0230pm-0300pm	Refreshing Trainings related to Aerodrome Weather Observations for Forecasters and MET Technicians: ➤ METAR/SPECI (CAVOK)	Wilson Saega
	Questions & Discussions	
0300pm-0330pm	PM TEA BREAK	
0330pm-0400pm	1) Climate Data Quality Control and CLIDE. 2) Climatology for Airports if time permits.	Max Norman
0400pm-0430pm	➤ Word of thanks from MC ➤ Final Remarks from DSIMS ➤ Closing Prayer	Eddie Maru David Hiriasia Solomon Sammy

Appendix C_2021_VA Exercise for Solomon islands Report.

Draft Solomon Island Exercise 2 report

1. 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).

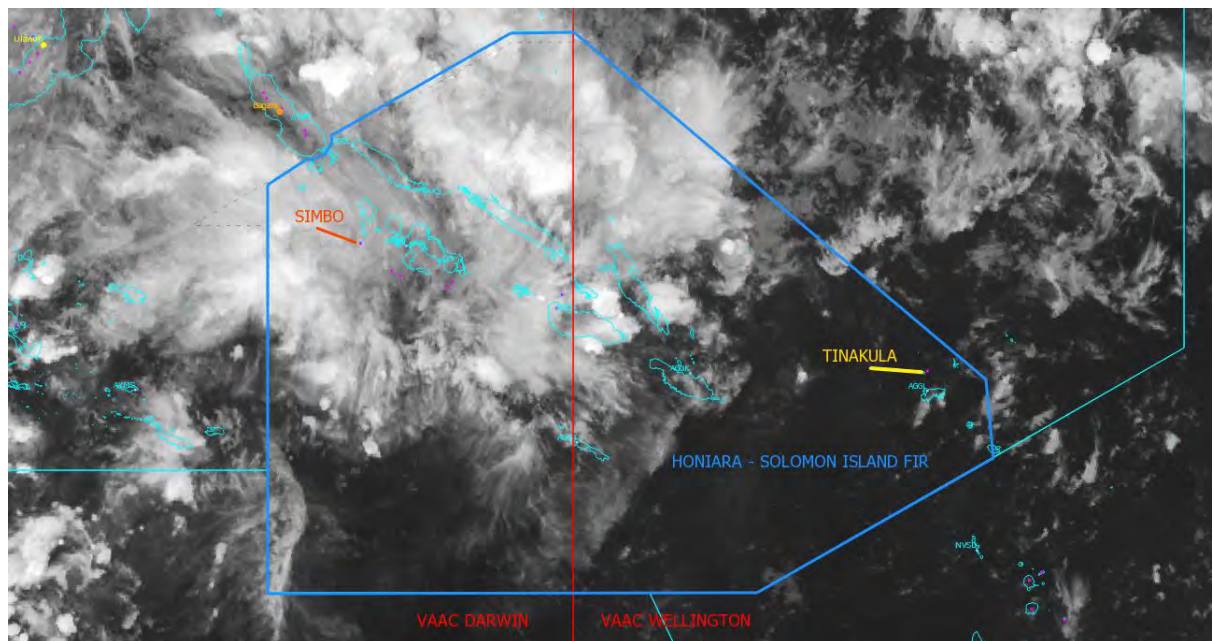


Figure 1. Map of the Honiara FIR, VAAC Darwin and VAAC Wellington Area of Responsibility boundaries and Simbo and Tinakula volcanoes

2.2. The exercise was held from 0000 UTC 30 September to 0400 UTC 30 September 2021 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.

A NOTAM was issued by Solomon Islands Air Traffic Services (ATS) on 29 September to notify recipients of the upcoming exercise products.

3.2. The exercise started 0000 UTC. The first volcanic ash advisory (VAA) from VAAC Darwin was issued at 0000 UTC for volcanic activity at Simbo volcano to FLO50 moving Southwest. The VAA contained an observation polygon, a T+6-hour forecast and a T+12-hour forecast.

3.3. VAAC Wellington issued the rebroadcast VAA, in accordance with IAVW, at 0007 UTC to direct users to the VAA issued by VAAC Darwin for Simbo volcano.

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

3.5. Solomon Islands MWO prepared the SIGMET based the VAAC Darwin VAA. The product was forwarded to Solomon Islands ATS for dissemination. ATS disseminated the SIGMET to the WAFC and RODB addresses in the exercise directive.

3.6. The SIGMET was received by most participants in the exercise. The header for volcanic ash SIGMETs is WV but the SIGMET from Solomon Islands MWO was issued with WS. Solomon Islands MWO has informed us that it was an error at ATS when they disseminated the product.

Identified action 1: Follow up on SIGMET header with Solomon Islands MWO and ATS. Look at the procedures or guidance provided to ATS when a SIGMET is sent from MWO.

3.7. The limited guidance on volcanic ash SIGMETs was provided in the exercise directive. Many improvements were made to the SIGMET after the offline volcanic ash SIGMET testing but there was still some confusion about the information required in the SIGMET which was evident in the SIGMET issued below.

Identified action 2: Follow up by VAACs Darwin and Wellington by reviewing guidance materials on VAA and SIGMETs with Solomon Islands MWO. Add additional examples to guidance materials and conduct another exercise. This will support Solomon Islands and provide added confidence.

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

VAA Issued	SIGMET issued	SIGMET corrections
FVAU02 ADRM 300000 VA ADVISORY STATUS: EXER DTG: 20210930/0000Z VAAC: DARWIN VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2021/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA OBS TO FL050 MOV SW AT 29/2340Z OBS VA DTG: 29/2340Z OBS VA CLD: SFC/FL050 S0817 E15637 - S0917 E15535 - S0826 E15504 - S0808 E15631 MOV SW 15KT FCST VA CLD +6 HR: 30/0540Z SFC/FL050 S0817 E15636 - S0922 E15540 - S0832 E15507 - S0808 E15631 FCST VA CLD +12 HR: 30/1140Z SFC/FL050 S0816 E15636 - S0922 E15541 - S0832 E15507 - S0808 E15630 FCST VA CLD +18 HR: 30/1740Z 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 20210930/0600Z=	WSSO20 AGGH 300018 AGGG SIGMET 01 VALID 300005/300605 AGGH- AGGG HONIARA FIR EXER VA ERUPTION MT SIMBO PSN S0818 E15631 VA CLD OBS AT 2340Z WI S0817 E15637 - S0917 E15535 - S0826 E15504 - S0808 E15631- S0817 E15637 SFC/FL050 MOV SW 15KT NC FCST AT 0540Z WI S0817 E15636 - S0922 E15540 - S0832 E15507 - S0808 E15631- S0817 E15636 FCST AT 1140Z WI S0816 E15636 - S0922 E15541 - S0832 E15507 - S0808 E15630- S0816 E15636 FCST AT 1740Z NO VA EXP=	WSWV SO20 AGGH 30001805 AGGG SIGMET 01 VALID 300005/300605 AGGH- AGGG HONIARA FIR EXER VA ERUPTION MT SIMBO PSN S0818 E15631 VA CLD OBS AT 2340Z WI S0817 E15637 - S0917 E15535 - S0826 E15504 - S0808 E15631- S0817 E15637 SFC/FL050 MOV SW 15KT NC FCST AT 0540Z WI S0817 E15636 - S0922 E15540 - S0832 E15507 - S0808 E15631- S0817 E15636 FCST AT 1140Z WI S0816 E15636 - S0922 E15541 - S0832 E15507 - S0808 E15630 - S0816 E15636 FCST AT 1740Z NO VA EXP=

3.8. A second VAA was issued by VAAC Darwin for Simbo volcano to finalise the first event at 0100 UTC. VAAC Wellington to finalised the rebroadcasting of the event.

3.9. A cancellation VA SIGMET was issued by MWO Solomon Islands to finalise the first event. The SIGMET was issued with the correct WMO header and appears as a WV SIGMET. Potentially missing alphanumeric letter before the 01 in the second line of SIGMET.

3.10. 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 SIGMET issues. Feedback was well accepted.

3.11. VAAC Wellington issued the VAA for Tinakula at 0200 UTC for volcanic ash to FL050 moving to Southwest. The VAA had an observation, T+6 and T+12 hour polygons. This was the same scenario as the VAAC Darwin VAA to see if Solomon Islands MWO was able make the previous corrections.

3.12. VAAC Darwin issued the rebroadcast VAA to direct users to the VAA issued by VAAC Wellington. VAAs were sent to Solomon Islands AFTN address AGGHYSYX and were received by Solomon Islands Air Traffic Services (ATS).

3.13. MWO Solomon Islands prepared the SIGMET based on the VAAC Darwin rebroadcast VAA. VAAC Darwin asked MWO Solomon Islands if they received the VAA from VAAC Wellington at 0200 UTC. We were advised that they didn't receive the VAA from VAAC Wellington as it was not passed to the MWO from ATS. Another reason to consider the procedures for information sharing and dissemination.

3.14. The WV SIGMET was incorrect due to it being based off the rebroadcast VAA. SIGMETs aren't issued from rebroadcast VAAs so making sure procedures are correct around this.

3.15. A VAA was issued by VAAC Wellington for Tinakula volcano to finalise the first event at 0300 UTC. A rebroadcast VAA was issued by VAAC Darwin to finalise the rebroadcasting of the event at 0310 UTC.

3.16. A cancellation SIGMET was delayed by MWO Solomon Islands as group was trying to figure out why the VAAC Wellington VAAs were not received. Through e-mail correspondence, VAAC Darwin asked MWO Solomon Islands to draft up a SIGMET for the VAAC Wellington VAA in lieu of it not being received. That SIGMET well formatted with the correct information and will be recorded in Appendix B.

3.17. All exercise messages have been recorded in Appendix B.

4. Summary

4.1. The Solomon Islands 2nd volcanic ash exercise highlighted many improvements compared to the 1st volcanic ash exercise which was conducted on 3rd August 2020.

4.2. The SIGMET was issued at a WS SIGMET rather than WV SIGMET which would cause confusion for airline operators trying to locate SIGMETs related to a new eruption. There is the need to follow up on the dissemination process and what guidance is provided by the MWO to ATS so that the correct SIGMET type is issued (Identified action 1).

4.3. The other issue which falls under identified action 1 is that the VAA by VAAC Wellington at 0200 UTC was not received by Solomon Islands MWO. This could be that the ATS did not pass on the VAA. VAACs Darwin and Wellington will need to discuss with Solomon Islands MWO if there is an easier way to send products to the MWO to avoid any issues.

4.4. The WV SIGMET had a more compliant formatting in this exercise which showed that the offline SIGMET testing period (9th to 17th September 2021) provided much needed guidance to Solomon Islands MWO. There were still some issues with including the T+12 and T+18 hour information in the WV SIGMET which could come down to updating the SIGMET procedure and guidance documents.

4.5. Identified action 2 would allow Solomon Islands MWO to show that they are comfortable with issuing WV SIGMETs after there is a review of procedures to check the issuing experienced during the exercise.

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 Nicole Ranger	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 Nadi Brisbane	Songhan Wong Wee Kiong Cheong Wee Poh GOH Bee Hong Gan Narissara Na Rangsri Kentaro Tsuboi Shivam Naicker Pierre Kemmers	WONG_Songham@nea.gov.sg CHEONG_Wee_Kiong@nea.gov.sg GOH_Wee_Poh@nea.gov.sg GAN_Bee_Hong@nea.gov.sg vtbbypyx@aerOTHai.co.th k-tsuboi@met.kishou.go.jp ShivamN@fijiairports.com.fj pierre.kemmers@AirservicesAustralia.com

Appendix B – Exercise messages

Time (UTC)	Agency	Product	Received	
29 th Sep	Solomon Islands ATS	NOTAM		<p>A0132/21 NOTAMN Q) AGGG/QFMXX/IV/M/AE/000/999 A) AGGG B) 2109290100 C) 2109300400 E) VA SIGMET EXER BTN VAAC DARWIN, VAAC WELLINGTON AND SOLOMON ISLANDS MET WX OFFICE. THE EXER WILL BE FOR VOLCANO SIMBO (255050) PSN: S0817 E 15631 AND VOLCANO TINAKULA (256010) PSN: S1023 E 16548. EXER VOLCANO ASH ADVISORIES AND EXER SIGMETS WILL USE STATUS. INDICATOR "EXER" AS PER ANNEX 3. EXER CONTAINED WITH AGGG FIR FOR BENEFIT OF SOLOMON ISLANDS MET WX OFFICE TO RESPOND. EVERYONE ELSE PLEASE DISREGARD.</p>
30/0003	VAAC Darwin	VAA	Solomon Islands ATS (yes) Solomon Island MWO (yes) VAAC Wellington (yes) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0100 UTC) RODB Brisbane (0001 UTC) RODB Fiji (yes)	<p>FVAU02 ADRM 300000 VA ADVISORY STATUS: EXER DTG: 20210930/0000Z VAAC: DARWIN VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2021/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA OBS TO FL050 MOV SW AT 29/2340Z OBS VA DTG: 29/2340Z OBS VA CLD: SFC/FL050 S0817 E15637 - S0917 E15535 - S0826 E15504 - S0808 E15631 MOV SW 15KT FCST VA CLD +6 HR: 30/0540Z SFC/FL050 S0817 E15636 - S0922 E15540 - S0832 E15507 - S0808 E15631 FCST VA CLD +12 HR: 30/1140Z SFC/FL050 S0816 E15636 - S0922 E15541 - S0832 E15507 - S0808 E15630</p>

				<p>FCST VA CLD +18 HR: 30/1740Z 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 20210930/0600Z=</p>
0007	VAAC Wellington	VAA	<p>Solomon Islands ATS (yes) Solomon Islands MWO (TBC) VAAC Darwin (yes) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0007 UTC) RODB Brisbane (0008 UTC) RODB Fiji (yes)</p>	<p>FVPS01 NZKL 300007 VA ADVISORY STATUS: EXER DTG: 20210930/0007Z VAAC: WELLINGTON VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2021/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA OBS TO FL050 MOV SW AT 29/2340Z OBS VA DTG: 30/0007Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND FL099/099 VRB999KT FCST VA CLD +6 HR: 30/0607Z NO VA EXP FCST VA CLD +12 HR: 30/1207Z NO VA EXP FCST VA CLD +18 HR: 30/1807Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS PLEASE SEE FVAU02 ADRM 300000 ISSUED BY VAAC DARWIN WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC WELLINGTON AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO LATER THAN 20210930/0607Z=</p>
0018	Solomon Islands MWO	VA SIGMET	<p>VAAC Darwin (yes) VAAC Wellington (no) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0021 UTC) RODB Brisbane (0023 UTC) RODB Fiji (yes)</p>	<p>WSSO20 AGGH 300018 AGGG SIGMET 01 VALID 300005/300605 AGGH- AGGG HONIARA FIR EXER VA ERUPTION MT SIMBO PSN S0818 E15631 VA CLD OBS AT 2340Z WI S0817 E15637 - S0917 E15535 - S0826 E15504 - S0808 E15631- S0817 E15637 SFC/FL050 MOV SW 15KT NC FCST AT 0540Z WI S0817 E15636 - S0922 E15540 - S0832 E15507 - S0808</p>

				<p>E15631- S0817 E15636</p> <p>FCST AT 1140Z WI S0816 E15636 - S0922 E15541 - S0832 E15507 - S0808 E15630- S0816 E15636</p> <p>FCST AT 1740Z NO VA EXP=</p>
0100	VAAC Darwin	VAA	<p>Solomon Islands ATS (yes)</p> <p>Solomon Islands MWO (yes)</p> <p>VAAC Wellington (yes)</p> <p>RODB Tokyo (TBC)</p> <p>RODB Singapore (yes)</p> <p>RODB Bangkok (0100 UTC)</p> <p>RODB Brisbane (0101 UTC)</p> <p>RODB Fiji (yes)</p>	<p>FVAU02 ADRM 300100</p> <p>VA ADVISORY</p> <p>STATUS: EXER</p> <p>DTG: 20210930/0100Z</p> <p>VAAC: DARWIN</p> <p>VOLCANO: SIMBO 255050</p> <p>PSN: S0818 E15631</p> <p>AREA: SOLOMON ISLANDS</p> <p>SUMMIT ELEV: 335M</p> <p>ADVISORY NR: 2021/2</p> <p>INFO SOURCE: EXERCISE</p> <p>AVIATION COLOUR CODE: ORANGE</p> <p>ERUPTION DETAILS: VA LAST OBS TO FL050 AT 30/0040Z</p> <p>OBS VA DTG: 30/0040Z</p> <p>OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND SFC/FL050 070/15KT</p> <p>FCST VA CLD +6 HR: 30/0640Z NO VA EXP</p> <p>FCST VA CLD +12 HR: 30/1240Z NO VA EXP</p> <p>FCST VA CLD +18 HR: 30/1840Z NO VA EXP</p> <p>RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS. ASH FROM VOLCANO SIMBO HAS NOW DISSIPATED. ADVISORY TERMINATED. SOLOMON ISLANDS TO RESPOND WITH APPROPRIATE SIGMET. EVERYONE ELSE PLEASE DISREGARD. EXERCISE EXERCISE</p> <p>NXT ADVISORY: NO FURTHER ADVISORIES=</p>
0104	VAAC Wellington	VAA	<p>Solomon Islands ATS (yes)</p> <p>Solomon Islands MWO (TBC)</p> <p>VAAC Darwin (yes)</p> <p>RODB Tokyo (TBC)</p> <p>RODB Singapore (yes)</p>	<p>FVPS01 NZKL 300104</p> <p>VA ADVISORY</p> <p>STATUS: EXER</p> <p>DTG: 20210930/0104Z</p> <p>VAAC: WELLINGTON</p>

			RODB Bangkok (0104 UTC) RODB Brisbane (0106 UTC) RODB Fiji (yes)	VOLCANO: SIMBO 255050 PSN: S0818 E15631 AREA: SOLOMON ISLANDS SUMMIT ELEV: 335M ADVISORY NR: 2021/2 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA LAST OBS TO FLO50 AT 30/0040Z OBS VA DTG: 30/0104Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND FLO99/099 VRB999KT FCST VA CLD +6 HR: 30/0704Z NO VA EXP FCST VA CLD +12 HR: 30/1304Z NO VA EXP FCST VA CLD +18 HR: 30/1904Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS PLEASE SEE FVAU02 ADRM 300100 ISSUED BY VAAC DARWIN WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC WELLINGTON AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES=
0126	Solomon Islands MWO	VA SIGMET	VAAC Darwin (yes) VAAC Wellington (no) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0130 UTC) RODB Brisbane (0131 UTC) RODB Fiji (yes)	WVSO20 AGGH 300126 AGGG SIGMET 02 VALID 300120/300130 AGGH- AGGG HONIARA FIR EXER CNL SIGMET 01 VALID 300005/300605=
0200	VAAC Wellington	VAA	Solomon Islands ATS (yes) Solomon Islands MWO (no) VAAC Darwin (yes) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0200 UTC) RODB Brisbane (0201 UTC) RODB Fiji (yes)	FVPS04 NZKL 300200 VA ADVISORY STATUS: EXER DTG: 20210930/0200Z VAAC: WELLINGTON VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS SUMMIT ELEV: 796M ADVISORY NR: 2021/1

				INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA OBS TO FL100 MOV SW AT 0150Z OBS VA DTG: 30/0200Z OBS VA CLD: SFC/FL100 S1045 E16545 - S1100 E16445 - S0945 E16500 - S1015 E16615 MOV SW 10KT FCST VA CLD +6 HR: 30/0800Z SFC/FL100 S1045 E16545 - S1130 E16330 - S0930 E16345 - S1015 E16615 FCST VA CLD +12 HR: 30/1400Z SFC/FL100 S1045 E16545 - S1145 E16315 - S0945 E16300 - S1015 E16615 FCST VA CLD +18 HR: 30/2000Z 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 20210930/0800Z=
0210	VAAC Darwin	VAA	Solomon Islands ATS (yes) Solomon Islands MWO (yes) VAAC Wellington (yes) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0207 UTC) RODB Brisbane (0208 UTC) RODB Fiji (yes)	FVAU02 ADRM 300210 VA ADVISORY STATUS: EXER DTG: 20210930/0210Z VAAC: DARWIN VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS SUMMIT ELEV: 851M ADVISORY NR: 2021/1 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA OBS TO FL100 MOV SW AT 0150Z OBS VA DTG: 30/0150Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND SFC/FL010 VRB05KT FCST VA CLD +6 HR: 30/0750Z NO VA EXP FCST VA CLD +12 HR: 30/1350Z NO VA EXP FCST VA CLD +18 HR: 30/1950Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS. PLEASE SEE FVPS04 NZKL 300200 ISSUED BY VAAC WELLINGTON

				WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC DARWIN AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO LATER THAN 20210930/0810Z=
0222	Solomon Islands MWO	VA SIGMET	VAAC Darwin (yes) VAAC Wellington (no) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0130 UTC) RODB Brisbane (0228 UTC) RODB Fiji (yes)	WVSO20 AGGH 300222 AGGG SIGMET 03 VALID 300222/300822 AGGH- AGGG HONIARA FIR EXER VA ERUPTION MT TINAKULA PSN S1023 E16548 VA CLD OBS AT 0150Z NOT IDENTIFIABLE FM SATELLITE DATA WIND SFC/FL010 FCST AT 0750Z NO VA EXP=
0300	VAAC Wellington	VAA	Solomon Islands ATS (yes) Solomon Islands MWO (TBC) VAAC Darwin (yes) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0300 UTC) RODB Brisbane (0301 UTC) RODB Fiji (yes)	FVPS04 NZKL 300300 VA ADVISORY STATUS: EXER DTG: 20210930/0300Z VAAC: WELLINGTON VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS SUMMIT ELEV: 796M ADVISORY NR: 2021/2 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA LAST OBS TO FL100 MOV SW AT 0150Z OBS VA DTG: 30/0300Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND FL010/020 VRB00KT FCST VA CLD +6 HR: 30/0900Z NO VA EXP FCST VA CLD +12 HR: 30/1500Z NO VA EXP FCST VA CLD +18 HR: 30/2100Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS. ASH FROM VOLCANO HAS NOW DISSIPATED. ADVISORY TERMINATED. SOLOMON ISLANDS TO RESPOND WITH APPROPRIATE SIGMET. EVERYONE ELSE PLEASE DISREGARD. EXERCISE EXERCISE. NXT ADVISORY: NO FURTHER ADVISORIES=

0310	VAAC Darwin	VAA	Solomon Islands ATS (yes) Solomon Islands MWO (yes) VAAC Wellington (yes) RODB Tokyo (TBC) RODB Singapore (yes) RODB Bangkok (0307 UTC) RODB Brisbane (0308 UTC) RODB Fiji (yes)	FVAU02 ADRM 300310 VA ADVISORY STATUS: EXER DTG: 20210930/0310Z VAAC: DARWIN VOLCANO: TINAKULA 256010 PSN: S1023 E16548 AREA: SOLOMON ISLANDS SUMMIT ELEV: 851M ADVISORY NR: 2021/2 INFO SOURCE: EXERCISE AVIATION COLOUR CODE: ORANGE ERUPTION DETAILS: VA LAST OBS TO FL100 MOV SW AT 0150Z OBS VA DTG: 30/0250Z OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND SFC/FL010 VRB05KT FCST VA CLD +6 HR: 30/0850Z NO VA EXP FCST VA CLD +12 HR: 30/1450Z NO VA EXP FCST VA CLD +18 HR: 30/2050Z NO VA EXP RMK: EXERCISE EXERCISE CONDUCTED WITH SOLOMON ISLANDS. PLEASE SEE FVPS04 NZKL 300300 ISSUED BY VAAC WELLINGTON WHICH DESCRIBES CONDITIONS OVER OR NEAR THE VAAC DARWIN AREA OF RESPONSIBILITY. EXERCISE EXERCISE NXT ADVISORY: NO FURTHER ADVISORIES=
0405	Solomon Islands MWO	VA SIGMET	VAAC Darwin (yes) VAAC Wellington (no) RODB Tokyo (TBC) RODB Bangkok (0227 UTC) RODB Brisbane (no) RODB Fiji (yes)	WSSO20 AGGH 300405 AGGG SIGMET B02 VALID 300405/300442 AGGH- AGGG HONIARA FIR CNL SIGMET B01 VALID 300042/300442=
Offline test to follow up on missed VAA				
Offline test	Solomon Islands issued SIGMET based on VAA from VAAC Wellington being send to them via e-mail.		WVSO20 AGGH 300346 AGGG SIGMET 03 VALID 300346/300946 AGGH-	

		AGGG HONIARA FIR EXER VA ERUPTION MT TINAKULA PSN S1023 E16548 VA CLD OBS AT 0200Z WI S1045 E16545 - S1100 E16445 - S0945 E16500 - S1015 E16615 - S1045 E16545 SFC/FL100 FCST AT 0800Z WI S1045 E16545 - S1130 E16330 - S0930 E16345 - S1015 E16615 - S1045 E16545=
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Appendix D_60days_SIGMET_Data_Captured_SIMS.



Ministry of Environment, Climate Change, Disaster Management & Meteorology
P.O. Box 21
Honiara, Solomon Islands

SIGMET DEFICIENCY CORRECTIVE ACTION

Report Summary

Thanks to partner states who continued to help Solomon Islands to address the SIGMET deficiency. Especially to New Zealand and Australia on the 60 days SIGMET transmissions capture data (March-April) 2022, the Volcanic Ash Exercise and the offline SIGMET Exercise. Deficiency ad hoc group access the copy of the spreadsheet.

Overview of the work that has recently been carried out with Solomon Islands. VAACs Darwin and Wellington recently conducted a volcanic ash exercise with Solomon Islands. The results from that volcanic ash exercise on the April 2022 were a big improvement on the previously conducted exercises. The formatting of the WV SIGMETs were compliant with Annex 3.

There was also a collection of SIGMET data issued by the Honiara FIR. Data was collected for 60 days from 1st March to 30th April. The data was recorded by Solomon Islands MWO, RODB Brisbane and ROC Wellington. ROC Wellington also provided a translation of the SIGMET into IWXXM. With the help from BoM collated all the data into a single spreadsheet and does a quick overview of the outcomes. In total there were 139 SIGMETs issued for the Honiara FIR.

The spreadsheet developed by partner's states covers all the data collected (first tab – RODB Brisbane, second tab – Solomon Islands MWO, third tab – ROC Wellington, fourth tab – my summary). I have noticed a few issues in the data that has been collected and have tried to colour code the entries based on the issues (Review_of_60day_data_collection_SI_MWO.xlsx).

- Green – Product was received by RODB and ROC, product seems correct in terms of formatting (it was converted into IWXXM), could be minor issue time difference based on Solomon Islands MWO recording the SIGMET and Solomon Islands ATS issuing the product to AFTN.



- Red – The product was recorded by Solomon Islands MWO as issued but was never received by RODB or ROC. So the product did not appear to reach the AFTN. Further investigation is required to check dissemination (See if Solomon
- Island ATS received the SIGMET etc). This is a bigger issue. There could be other ways to resolve this in the future.
- Yellow – There was an issue with cancelling a SIGMET. Either SIGMET was issued to cancel a SIGMET which was already expired. Seems like a procedure issue by the forecasters; however, there were times when the SIGMET was cancelled correctly on other days.
 - **Action - Solomon Islands workshop/refresher training conducted**
- Blue – The translation to IWXXM failed which was recorded by ROC Wellington. It seems like Solomon Islands MWO were using "ISOL EMBD TS" when that is not an option for SIGMETs. Should be EMBD TS so needs to be clear in SOPs but only happened a few times. Procedure issue that can be fixed.
 - **Action - Solomon Islands workshop/refresher training conducted**
- White – The SIGMET header was incorrect AGGG instead of AGGH.
- There was also a SIGMET or two which didn't have MOV before the speed and direction
 - **Action - Solomon Islands workshop/refresher training conducted**

Solomon Islands has provided a refresher workshop to the MWO team and ATS around cancellation SIGMETs and formatting minor issues. See the report on the recent workshop and refresher training that addressed some of the issues?

- **Action – See MWO & ATS refresher workshop report.**

One thing we should consider is the timeliness of issuing a SIGMET or SIGMET header time and the receipt by the RODB and consider if the time is appropriate (date is in the first tab from RODB Brisbane). The headers are done by MWO but when it gets to ATS they will input the header in their CADAS System but the body of the message will be copy pasted; this is when the error may be created by ATS on the issue times as well.

- **Action - Solomon island workshop briefed ATS on the matter.**

Captured part of the spreadsheet is shown below:



Log Screen Capture.

Date	SIGMET Issued recorded by SI MWO	SIGMET Collected by RODB/ROC not recorded by Solomon Islands	Type	Received by RODB	Received by ROC	IWXM translation	SIGMET SI MWO	SIGMET RODB	Issue	Comments
1/03/2022	WSSO20 AGGH 010020		WS	match	match	(success=True)	WSSO20 AGGH 010020 AGGG SIGMET B03 VALID 010020/010420 AGGH- AGGG HONIARA FIR CNL SIGMET B02 VALID 282020/010020=	WSSO20 AGGH 010020 AGGG SIGMET B03 VALID 010020/010420 AGGH- AGGG HONIARA FIR CNL SIGMET B02 VALID 282020/010020=	N/A	N/A
1/03/2022	WSSO20 AGGH 011542		WS	no match	no match		WSSO20 AGGH 011542 AGGG SIGMET C01 VALID 011600/012000 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S0829 E16420 - S0855 E16452 - S1222 E16544 S1402 E16252 - S0652 E15935 - S0535 E16040 S0829 E16420 TOP FL490 STNR NC=		Product was recorded by Solomon Islands MWO as issued SIGMET but it was not received by RODB Brisbane or Roc Wellington. Is if Solomon Islands MWO can find the e-mail that was sent to Solomon Islands ATS. Product did not make it to the AFTN.	
2/03/2022	WSSO20 AGGH 011934		WS	match	match	(success=False)	WSSO20 AGGH 011934 AGGG SIGMET C02 VALID 012000/020000 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S1022 E16635 - S1030 E16645 - S1144 E16652 S1504 E16109 - S0804 E16056 - S0608 E16129 S1022 E16635 TOP FL490 MOV SE 05KT NC=	WSSO20 AGGH 011934 AGGG SIGMET C02 VALID 012000/020000 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S1022 E16635 - S1030 E16645 - S1144 E16652 - S1504 E16109 - S0804 E16056 - S0608 E16129 - S1022 E16635 TOP FL490 MOV SE 05KT NC=	Did not translate into IWXM format. Potential error with using ISOL EMBD TS when it should be EMBD TS	N/A
2/03/2022	WSSO20 AGGH 020000		WS	match	match	(success=False)	WSSO20 AGGH 020000 AGGG SIGMET C03 VALID 020000/020400 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S1022 E16635 - S1030 E16645 - S1144 E16652 S1504 E16109 - S0804 E16056 - S0608 E16129 S1022 E16635 TOP FL490 MOV SE 05KT NC=	WSSO20 AGGH 020019 AGGG SIGMET C03 VALID 020019/020400 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S0602 E15901 - S0656 E16031 - S0757 E15925 - S0704 E15758 - S0602 E15901 TOP FL490 MOV SW 05KT NC=	Did not translate into IWXM format. Potential error with using ISOL EMBD TS when it should be EMBD TS	Product received by RODB and ROC but different time compared to the header used by Solomon Islands. Could be due to ATS sending the product.
2/03/2022	WSSO20 AGGH 020400		WS	match	match	(success=True)	WSSO20 AGGH 020400 AGGG SIGMET C04 VALID 020400/020800 AGGH- AGGG HONIARA FIR CNL SIGMET C03=	WSSO20 AGGH 020400 AGGG SIGMET C04 VALID 020400/020800 AGGH- AGGG HONIARA FIR CNL SIGMET C03=	The cancelled SIGMET starts at 0400 and ends at 0800. It is cancelling SIGMET C03; however, that SIGMET has already expired. So the cancellation is not necessary.	N/A
2/03/2022	WSSO20 AGGH 021728		WS	no match	no match		WSSO20 AGGH 021728 AGGG SIGMET B01 VALID 021728/022128 AGGH- AGGG HONIARA FIR EMBD TS FCST WI S0953 E15500 - S0719 E15500 - S0717 E15502 - S0533 E15754 - S1232 E16248 - S1231 E15657 S0953 E15500 TOP FL480 STNR NC=		Product was recorded by Solomon Islands MWO as issued SIGMET but it was not received by RODB Brisbane or Roc Wellington. Is if Solomon Islands MWO can find the e-mail that was sent to Solomon Islands ATS. Product did not make it to the AFTN.	
2/03/2022	WSSO20 AGGH 022123		WS	match	match	(success=False)	WSSO20 AGGH 022123 AGGG SIGMET B02 VALID 022128/030128 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S0823 E16205 - S1355 E15935 - S0954 E15525 S0629 E15617 - S0613 E16019 - S0823 E16205 TOP FL490 MOV SW 05KT NC=	WSSO20 AGGH 022123 AGGG SIGMET B02 VALID 022128/030128 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S0823 E16205 - S1355 E15935 - S0954 E15525 - S0629 E15617 - S0613 E16019 - S0823 E16205 TOP FL490 MOV SW 05KT NC=	Did not translate into IWXM format. Potential error with using ISOL EMBD TS when it should be EMBD TS	
3/03/2022	WSSO20 AGGH 030100		WS	match	match	(success=True)	WSSO20 AGGH 030100 AGGG SIGMET B03 VALID 030128/030528 AGGH- AGGG HONIARA FIR EMBD TS OBS WI S0453 E16003 - S0620 E16147 - S0941 E16543 - S1343 E15847 - S0713 E15522 - S0453 E16003 TOP FL490 MOV W 15KT NC=	WSSO20 AGGH 030110 AGGG SIGMET B03 VALID 030128/030528 AGGH- AGGG HONIARA FIR EMBD TS OBS WI S0453 E16003 - S0620 E16147 - S0941 E16543 - S1343 E15847 - S0713 E15522 - S0453 E16003 TOP FL490 MOV W 15KT NC=		Product received by RODB and ROC but different time compared to the header used by Solomon Islands. Could be due to ATS sending the product.
3/03/2022	WSSO20 AGGH 030500		WS	match	match	(success=False)	WSSO20 AGGH 030500 AGGG SIGMET B04 VALID 030528/030928 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S0719 E15501 - S0637 E15602 - S0533 E15745 S0452 E15857 - S0449 E15951 - S1026 E16638 S0719 E15501 TOP FL500 MOV W 15KT NC=	AGGG SIGMET B04 VALID 030528/030928 AGGH- AGGG HONIARA FIR ISOL EMBD TS OBS WI S0719 E15501 - S0637 E15602 - S0533 E15745 - S0452 E15857 - S0449 E15951 - S1026 E16638 - S0719 E15501 TOP FL500 MOV W 15KT NC=	Did not translate into IWXM format. Potential error with using ISOL EMBD TS when it should be EMBD TS	
3/03/2022	WSSO20 AGGH 030928		WS	no match	no match		WSSO20 AGGH 030928 AGGG SIGMET B05 VALID 030928/031328 AGGH- AGGG HONIARA FIR CNL SIGMET B04 030528/030928=		Product was recorded by Solomon Islands MWO as issued SIGMET but it was not received by RODB Brisbane or Roc Wellington. Is if Solomon Islands MWO can find the e-mail that was sent to Solomon Islands ATS. Product did not make it to the AFTN.	SIGMET is present for that time but incorrect header and different SIGMET number