

*International Civil Aviation Organization*

ICAO

**WORKING PAPER (WP/17)****ICAO Asia and Pacific (APAC)**Twenty-Eighth Meeting of the Meteorology Sub-Group  
(MET SG/28)

Bangkok, Thailand, 8 to 12 July 2024

**Agenda Item 5: Planning and monitoring****UPDATE OF THE STATE VOLCANO OBSERVATORIES OF THE UNITED STATES**

(Presented by United States)

**SUMMARY**

In March 24-26, 2021, the Eleventh Meeting of the Meteorological Services Working Group (MET/S WG/11) presented information on an ad-hoc group tasked with identifying APAC States with active or potentially active volcanos that did not have a designated State Volcano Observatory (SVO). This paper provides suggested updates on US SVOs that can be included in the APAC eANP Vol 1, Table MET I-1.

**1. INTRODUCTION**

1.1 In 24-26 March, 2021, the Eleventh Meeting of the Meteorological Services Working Group (MET/S WG/11) presented information on active volcanoes during the Holocene period that are situated in the APAC region. A comparison was done with respect to the APAC eANP Vol I, Table MET I-1 and the Ad Hoc Group found that it was lacking some of the State volcano observatories (SVO) that monitor active volcanoes in the APAC region. This paper proposes to include the Alaska Volcano Observatory (AVO) and the Hawaiian Volcano Observatory (HVO) in the APAC eANP.

**2. DISCUSSION**

2.1 The United States Geological Survey through its Volcano Hazards Program operates five SVOs. Of interest to this meeting is the AVO which monitors volcanos in the Northern Mariana Islands in addition to the Aleutian Islands in Alaska. The HVO monitors volcanoes in Hawaii and American Samoa Islands. Figure 1 shows the Holocene volcanos monitored by the U.S. SVOs, that are the responsibility of the AVO and HVO. Additional information on the status of the volcanos can be found here: <https://www.usgs.gov/volcano-hazards>

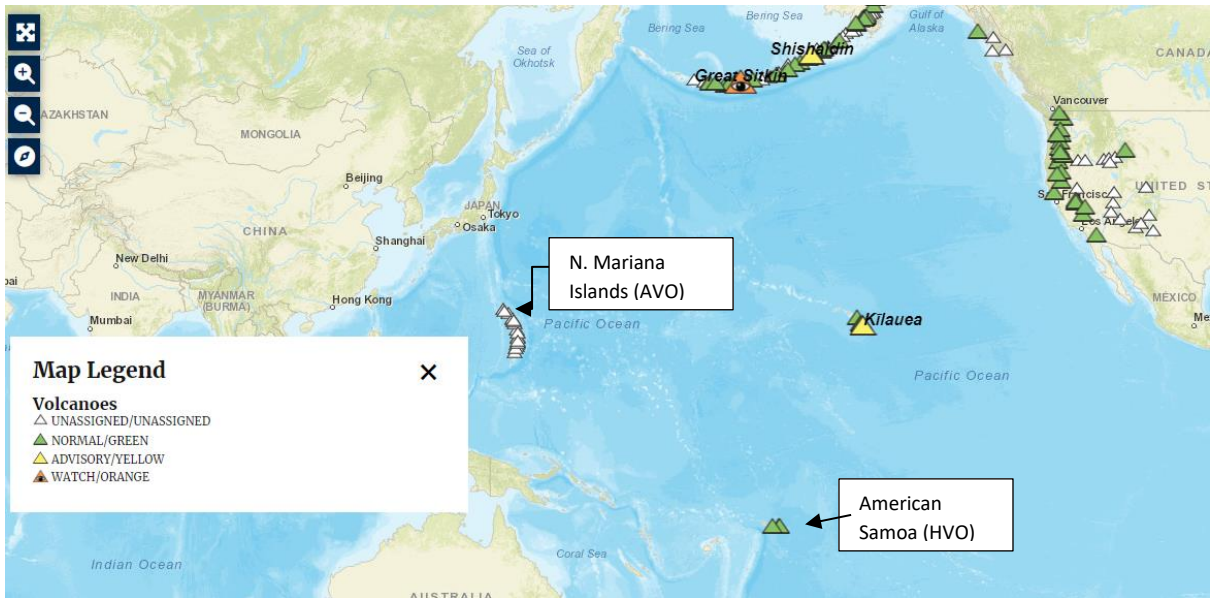


Figure 1: Graphic of the Holocene Volcanos and US SVOs in the APAC region

2.2 Because the current eANP Vol I, Table MET I-1 does not contain the specific information regarding the US SVOs, it is suggested that the next amendment of the eANP be updated to include the additional information.

State	Volcano observatory
1	2
United States (N. Mariana Islands)	Alaska Volcano Observatory (AVO)
United States (American Samoa)	Hawaiian Volcano Observatory (HVO)

2.3 See Attachment A for the specific islands monitored by AVO and HVO. Note, HVO is also listed in the [NAM eANP Vol I Table MET I-1](#), as the designated State volcano observatory for volcanoes associated with Hawaii.

**3. ACTION BY THE MEETING**

3.1 Note the information contained in this paper.

3.2 Consider including the specific information related to US SVOs from paragraph 2.2 to the next amendment of the APAC eANP Vol I, Table MET I-1.

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**ATTACHMENT A**

Islands monitored by the Alaska and Hawaiian Volcano Observatory

<b>N. Mariana Islands (AVO)</b>	<b>American Samoa (HVO)</b>
Fukujin seamount	Tutuila Island
Kasuga 2	Ta'u Island
Daikoku seamount	
Farallon de Pajaros	
Ahyi seamount	
Supply Reef	
Maug Islands	
Asuncion	
Agrigan	
Pagan	
Almagan	
Guguan	
Zealandia Bank	
South Sarigan seamount	
Anatahan	
East Diamante	
Ruby	
Esmeralda Bank	