

## MT AGUNG ACTIVITY REPORT

Date: 09-12-2017 09:00 WITA from Gaia-Oasis Tejakula.

### \*SITUATION AT GAIA-OASIS\*

Visually, the air is clear. No smoke or ash has been seen or smelt. No noise or quakes from Mt Agung have been felt or reported.

Paper tests carried out at various locations in Gaia show no volcanic ash.

It feels strange, to see and feel no physical trace of the volcano here, when there is so much being reported in the world press.

### \*SITUATION AT AIRPORT\*

Bali Airport is open and all facilities are 100% available and running.

There were several discrete eruptions this morning; see below.

The VONA (Volcano Observatory Notice for Aviation) is unchanged at ORANGE.

The Darwin VAAC (Volcanic Ash Advisory Centre) has issued an updated advisory revising its remarks and confirming no further advisories.

### \*SITUATION AT MT AGUNG\*

Volcano is estimated to be in a critical phase.

6 eruptions at 25 amplitude, smoke columns with volcanic material, occurred between 00:00 and 06:00 WITA,

1 further eruption occurred, with thick smoke, height 2000m above the summit, at 07:30 WITA. Thick dark chocolate coloured smoke was observed 3 times by reporters.

Eruptions are characterized by new magma brought to the surface, fragmented and broken up by the eruption.

Wind forecast from west-southwest at 10-20 knots (3000 feet); from west at 10-20 knots (5000 feet), from southeast at 10-20 knots (14.000 feet).

At 06:00, smoke column was tending NorthWest, but as at 9.00 am the wind has been moving NorthEast.

Ashfall was reported in Dukuh Village, within the 5 km zone.

In the western part of the village near the crater, ash was reported at 1 cm thickness.

In the eastern part, there was a smattering of ash, "like dandruff".

Yesterday, 24 volcanic gusts ("hembusan") were recorded, with smoke attaining heights of 2000m.

“Gusts” are dominated by gas, and may contain ash from lava already on the surface without new magma fragments.

Gusts generate little ashfall impact, as the ash tends to fall near the peak.

Volcanic glow was observed last night above the crater peak.

Concentration of SO<sub>2</sub> (sulphur dioxide) gases remain high.

Continuous microtremor recorded with amplitude 1-2 mm (dominant 1 mm)

39 low frequency quakes, 13 volcanic quakes and 2 tectonic quakes were recorded.

These indicate pressure is continuing to accumulate within the volcano, as magmatic fluids and gases continue to move up to the surface.

Eruption is more ‘effusive’; lava continues to accumulate slowly in the crater, and may overspill in the coming weeks.

Current eruptions have not exceeded VEI 2 (volcanic eruptive index 2), however government models are allowing for a VEI 3.

This time, Mt Agung has been dormant 50 years, as opposed to the last eruption where the volcano was dormant for over 120 years.

The longer the dormant period, the stronger the expected eruption. The last eruption was at VEI 5.

The scale is logarithmic viz. a VEI 2 is 10 times smaller than a VEI 3, and so on. VEI 3 is 100 times weaker than VEI 5.

The largest volcanic eruptions in recorded human history are VEI 7, occurring in cycles of 10.000+ years.

Yellowstone National Park was formed and sits atop a volcano estimated to erupt every 600.000 – 700.000 years at VEI 8.

#### OTHER:

Current figures show 68.172 refugees spread in 226 camps in 9 regencies throughout Bali.

Approximately 10% are children 0-5 years, about 20% are elderly or frail.

An estimated 19.128 people have yet to move from the Danger Zones I, II, III within the 10km area.

Many have stated they do not intend to do so until the sirens sound.

The National Electricity Board has cut off power to several households in the Danger Zones II and III due to non-payment.

Farmers are protesting and asking for extensions.

#### PLEASE ACCEPT OUR GRATITUDE :

Gaia-Oasis has several groups on standby, who are committed to coming to Bali to support the island and her people should conditions allow.

Our Founder, Sabine and our Foundation Board, Saicho and Dana, have been and are staying at Gaia; our PT and EV Directors will be here shortly.

We will never ask our groups and guests to take any untoward risks, or expose anyone to situations that will threaten health and life.

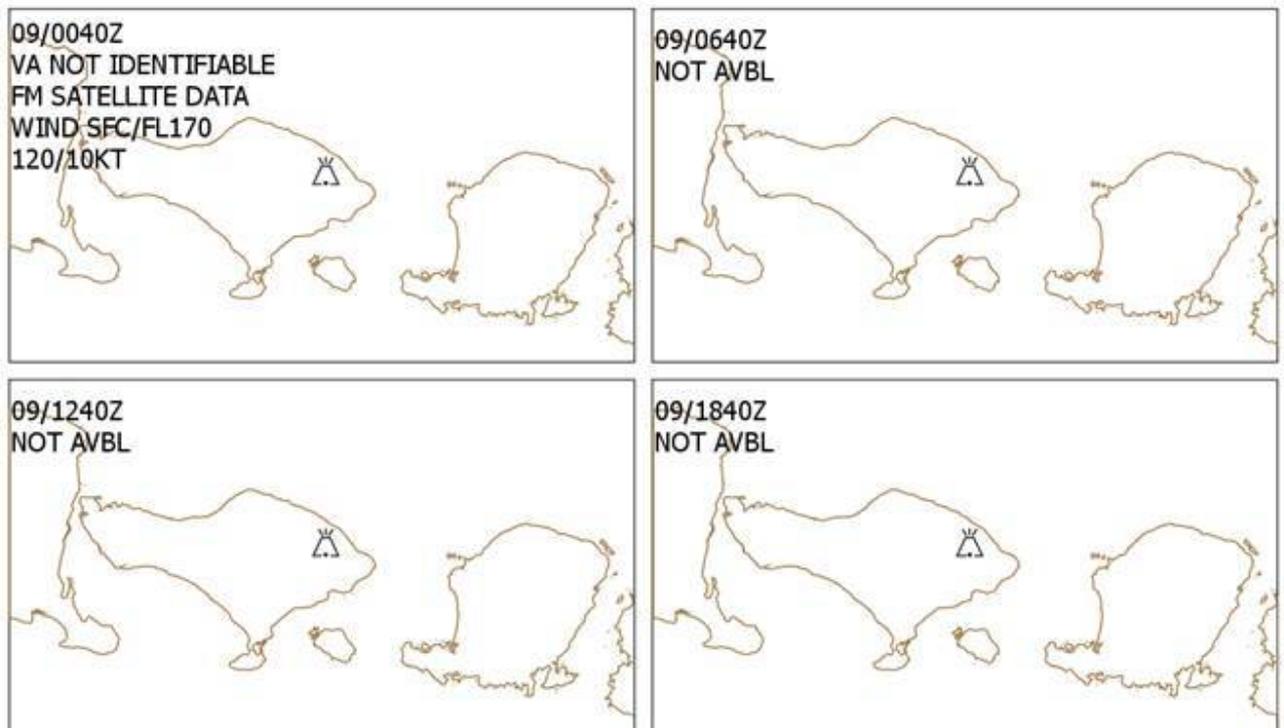
We thank you for your incredible support and generosity in standing by us;  
We are working to pass it on and pay it forward via our work in Bali.

*Thank you, thank you, thank you.*

Om Santi Santi Santi Om

Yen and the Gaia Team

Revised VAAC Advisory



VOLCANIC ASH ADVISORY			
DTG:	201712090040Z	ADVISORY NR:	2017/70
VAAAC:	DARWIN	INFO SOURCE:	WEBCAM, CVGMM
VOLCANO:	AGUNG 264020	AVIATION COLOUR CODE:	ORANGE
PSH:	50821 E11530	ERUPTION DETAILS:	DISCRETE ERUPTION TO FL170 MOV WNW AT 09:000Z.
AREA:	INDONESIA	RNM:	SMALL INTERMITTENT DISCRETE VA ERUPTIONS OCCURRING AT VOLCANO, CONFIRMED BY GROUND OBSERVER, OBSERVED ON WEBCAM UP TO FL170. VA NOT SEEN ON SAT IMAGERY DUE TO CLOUD. VA EXPECTED TO DISSIPATE WITHIN A FEW HOURS. WINDS BASED ON MODEL GUIDANCE.
SURMIT	3142M		
ELEV:		NXT ADVISORY:	NO FURTHER ADVISORIES