

# Three Alaska volcanoes are awake.

*Right now. And a machine is listening.*



# Three at once.

## Great Sitkin

52.08°N 176.13°W

**WATCH / ORANGE**

lava in the crater

## Shishaldin

54.76°N 163.97°W

**ADVISORY / YELLOW**

quakes, tremor, gas

## Kupreanof

56.01°N 159.80°W

**ADVISORY / YELLOW**

seismic + gas emissions

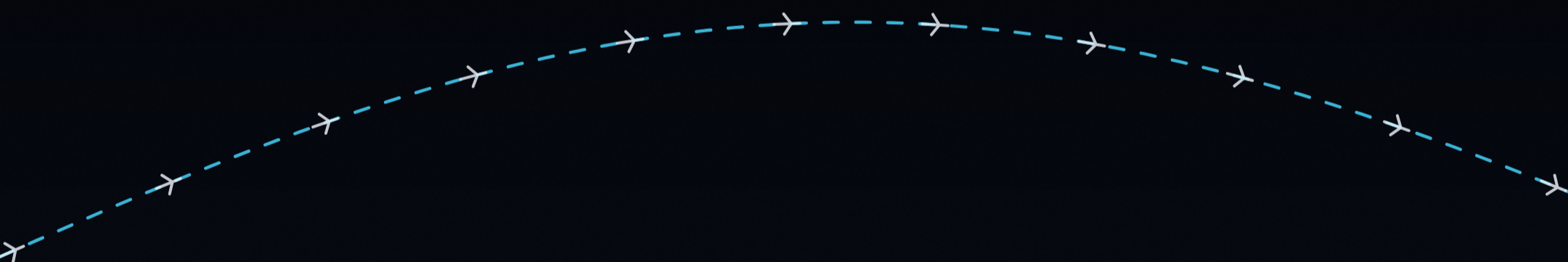
COMBINED LIVE SEISMIC FEED



**ORANGE** = eruption or escalating unrest. **YELLOW** = elevated above background.

# 50,000 people cross this sky every day.

Alaska has more than 130 volcanoes, over 50 of them active since 1760. They sit under the Pacific great circle air routes. An ash cloud does not care about a flight plan.



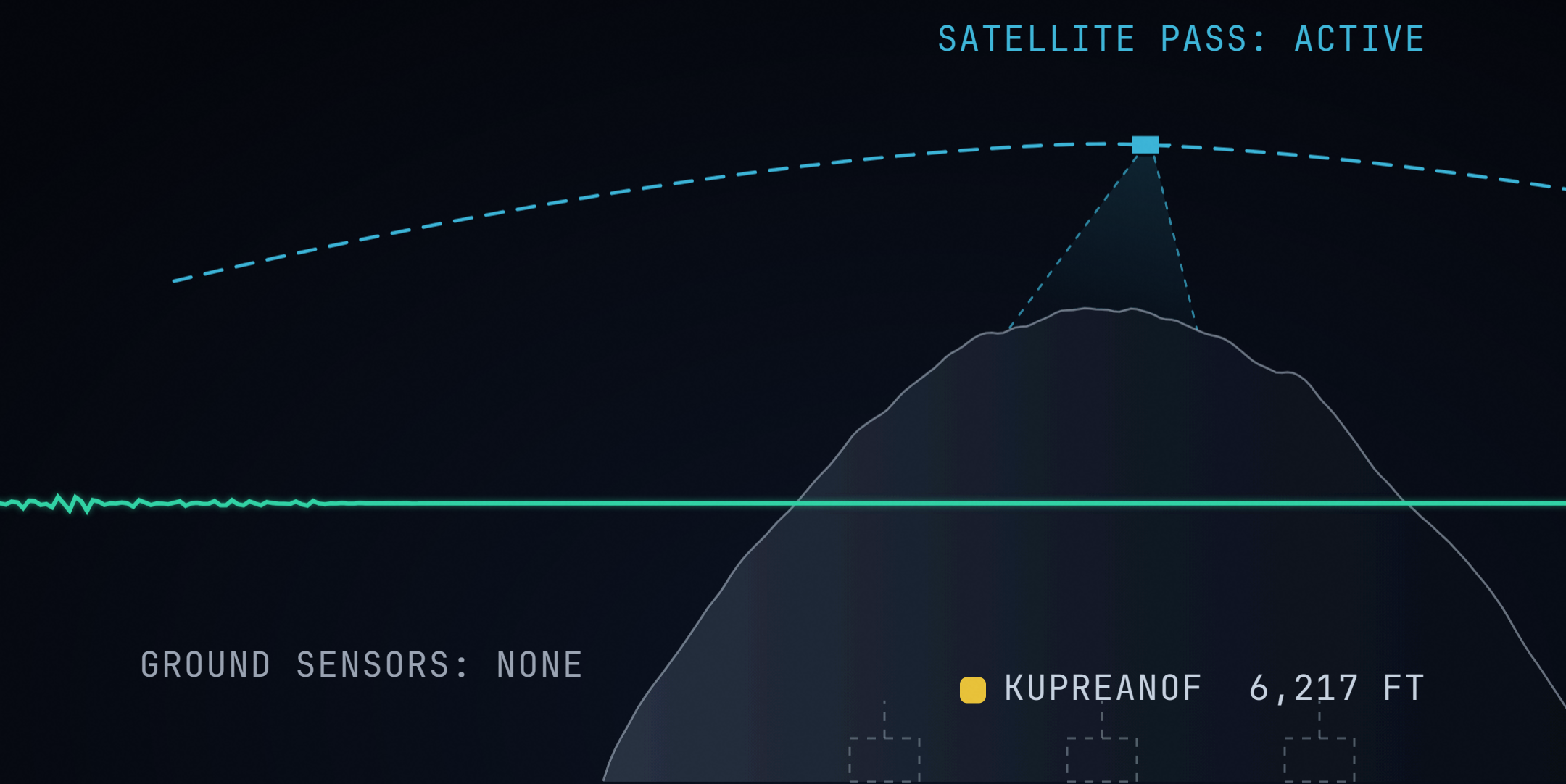
# One of them has no ears on the ground.

Mount Kupreanof, 6,217 feet, has no real time geophysical network. No ground network of its own. Its unrest is read from orbit, by satellite radar and the AI that reads it.

SATELLITE PASS: ACTIVE

GROUND SENSORS: NONE

■ KUPREANOF 6,217 FT



# It reads a mountain's tremor like a face.



**270,000+**

training  
spectrograms

**87%**

classification  
accuracy

**7 / 3**

volcanoes /  
regions

Built at the Alaska Volcano Observatory, UAF, with USGS.

# It sees the ground breathe by a centimeter.



**1 cm**

PER FRINGE

MT. EDGECUMBE

3,202 FT

SWARM 11 APR 2022

VolcSARvatory reads satellite radar, two passes over the same ground, into interference rings. It has run at AV0 since 2022, and caught a long quiet volcano near Sitka stirring on April 11, 2022.

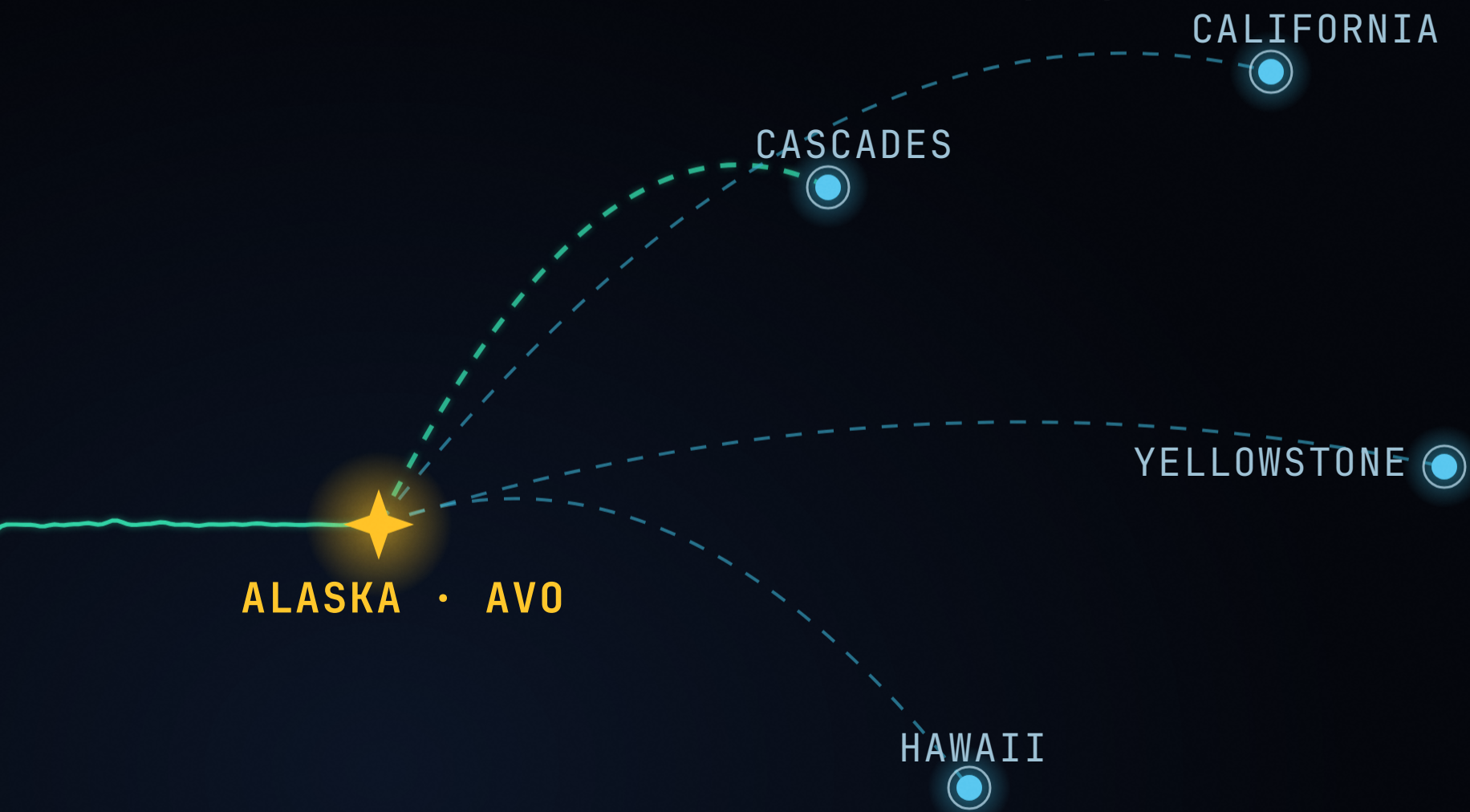
# The watchlist, at a glance.

VOLCANO	ELEV	ALERT	SENSED BY
Great Sitkin	5,708 FT	■ WATCH	ear + eye
Shishaldin	not listed	■ ADVISORY	ear + eye
Kupreanof	6,217 FT	■ ADVISORY	eye only
Mt. Edgecumbe	3,202 FT	■ NORMAL	eye

130+ volcanoes // 50+ active since 1760 // 50,000 people overhead a day

# Alaska taught the country's volcanoes to speak.

The listening post that watches the Ring of Fire was built at the University of Alaska Fairbanks. It is now expanding to all five US volcano observatories, part of a NASA award shared across seven projects.



END OF WATCH

AVO // STEADY // 09 / 09

*The mountains never sleep.*

**Now neither does  
the watch.**

Save this for the next time an Alaska volcano  
makes the news.

Sources in the comments.



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alaskaaihq.com

64.86°N 147.85°W • FAIRBANKS