



Check out the Volcano Experts!





Volcanic Ash Advisory Text

FVFE01 RJTD 022227 VA ADVISORY

DTG: 20250402/2227Z

VAAC: TOKYO

VOLCANO: KANLAON 272020

PSN: N1025 E12308

AREA: PHILIPPINES SUMMIT ELEV: 2435M ADVISORY NR: 2025/102

INFO SOURCE: HIMAWARI-9 PHIVOLCS

AVIATION COLOUR CODE: NIL

ERUPTION DETAILS: ERUPTION AT 20250402/2201Z FL090 EXTD SW REPORTED

OBS VA DTG: 02/2201Z

OBS VA CLD: VA NOT IDENTIFIABLE FM SATELLITE DATA WIND FL090 090/12KT

FCST VA CLD +6 HR: NOT AVBI FCST VA CLD +12 HR: NOT AVBI-

FCST VA CLD +18 HR: NOT / RMK: WE WILL ISSUE FURTH

IMAGERY.

NXT ADVISORY: NO FURTHE

Latest from Tokyo VAAC





Volcano Map

- : volcanoes for which VAAs (Volcanic Ash Advisories) have been issued.
- which is maintained by ICAO

Latest Volcanic Ash Advisor

	Volcano	Advisory Number	Eruption Details	Date Time
	KANLAON	2025/102	2025-04-02 22:01Z	2025-04-02 22:27Z
	KANLAON	2025/101	2025-04-02 18:02Z	2025-04-02 18:36Z

VAA

- Issued
 - 2022
- . Darwin VAAC Backup
- . VAGNFR (Discontinued on Nov. 28, 2024)

Product Relation

- VAAC Operation Product Explanation

References

Tokyo notes nothing near the convective plume... Is there ANYTHING there?



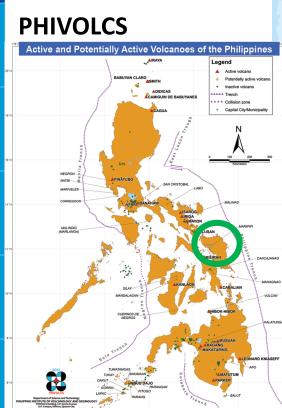


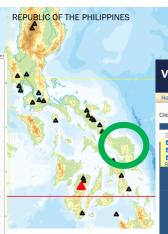
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Volcano Maps

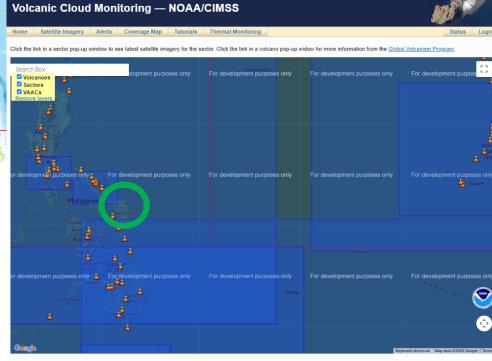




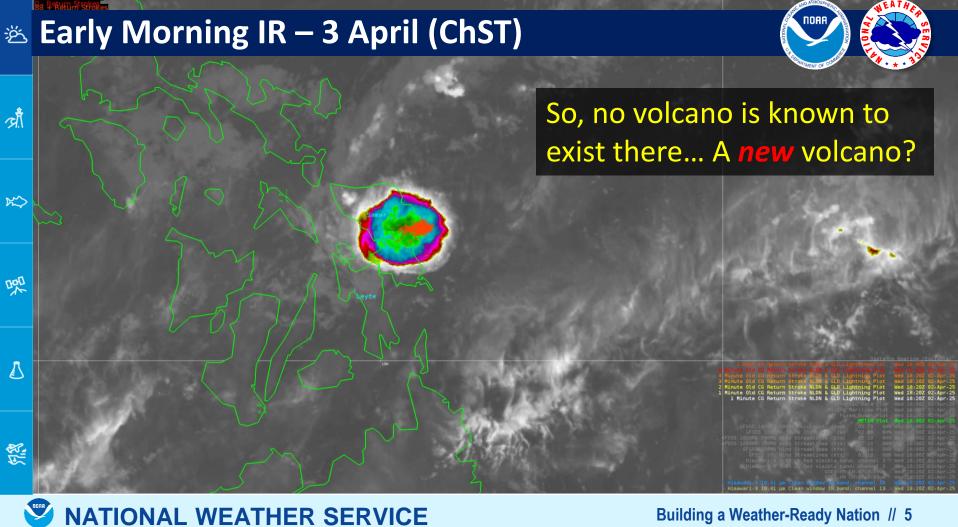


Tokyo **VAAC**

NOAA/CIMSS

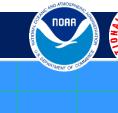


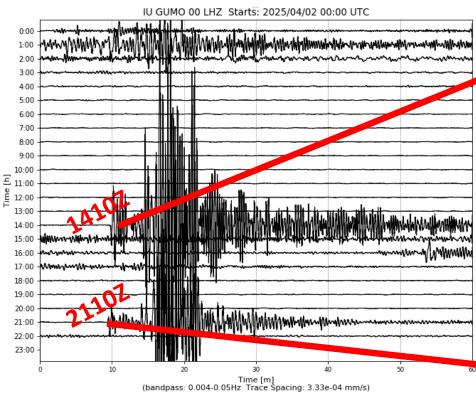


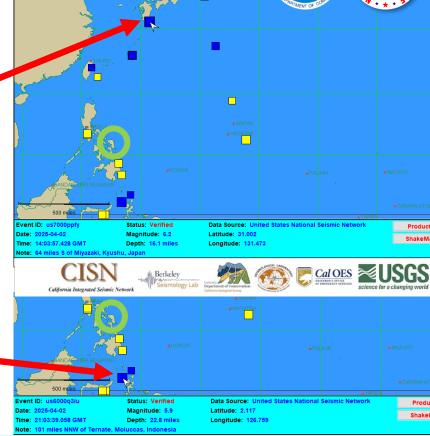


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Any Interesting Seismic Activity?











Any Other Ways to Assess for Volcano? Ash? SO2?





Sector: @ Philippines 2 km

Instrument: @

✓ AHI VIIRS

Satellite: @ HIMAWARI-9 NOAA-20

NOAA-21 S-NPP

Image Type: @ RGB1112or13um 3911L >

End Time: @ 2025-04-02 20-20-00 🗸

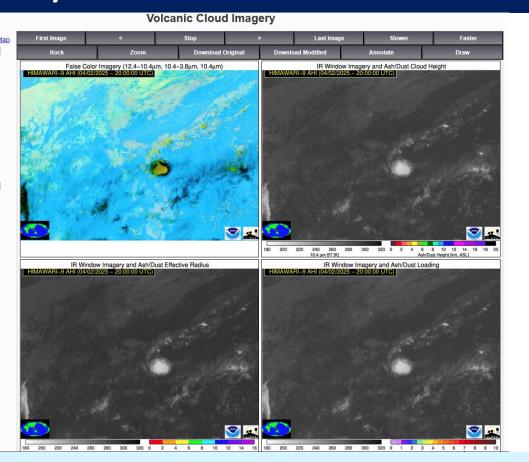
Date Range: @ 1 hour V



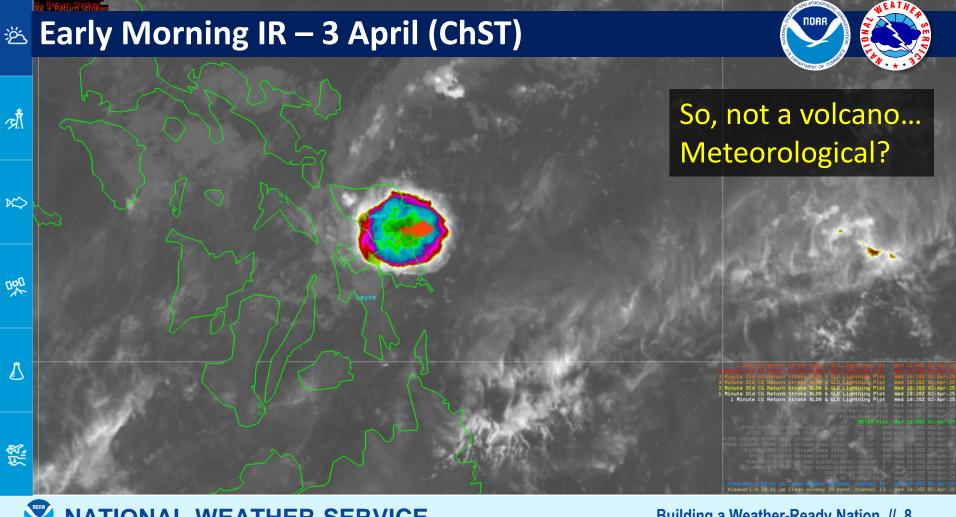








NOAA/CIMSS Volcano **Monitoring Satellite Imagery** (lots of options)

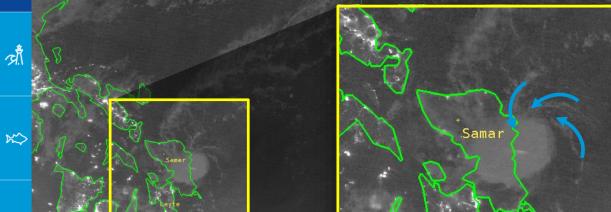




Let's go to the SATELLITES! VIIRS







Looks like lowlevel winds curving in...

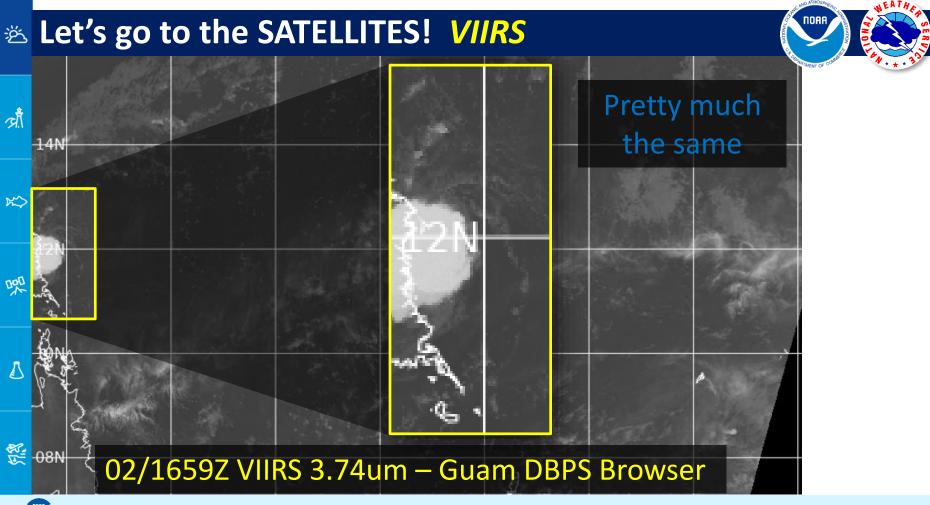


02/1659Z VIIRS Dyn DNB - AWIPS











Let's go to the SATELLITES! Time Series Lead-Up





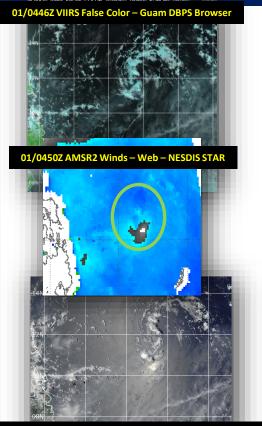




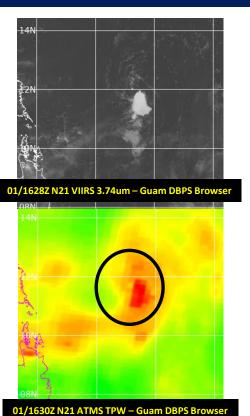


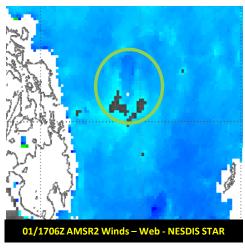






+~12hr

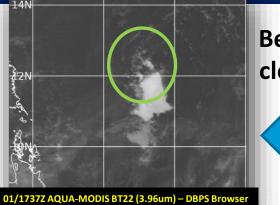




01/0525Z Aqua-MODIS True Color - Guam DBPS Browser

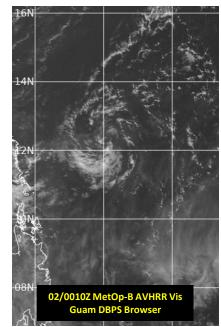




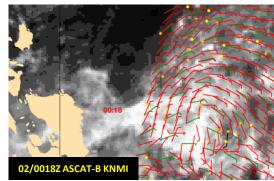


01/1737Z AQUA-MODIS BT31 (11.0um) - DBPS Browser

Better low-level cloud definition in 3.96!













Let's go to the SATELLITES! Time Series Lead-Up

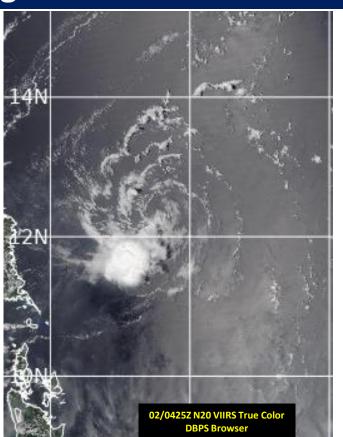


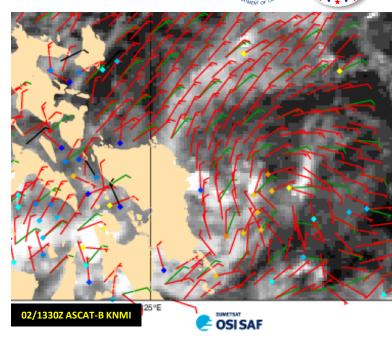














Let's go to the SATELLITES! Animated TPW



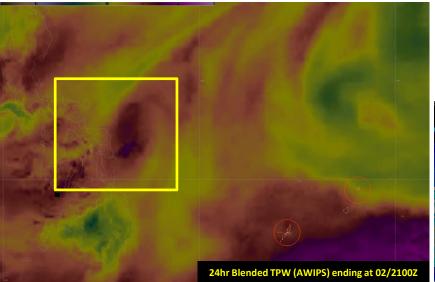


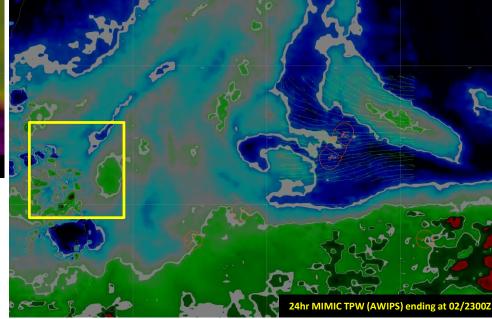
















Takeaway Thoughts







Many additional multispectral datasets



Pronounced in narrow-beam sensors (altimetry, ASCAT, etc.)

Reduced for wide scan swaths (VIS, IR, etc.)

Reduced by presence of similar sensors onboard multiple satellites







Takeaway Thoughts





VIIRS Day-Night Band...

Great for nighttime identification of weather features Great for viewing light sources and spotting active lightning



Short-Wave IR (3.74um / 3.96um LEO; 3.89um Himawari)...

In areas of thin cirrus, more useful for detecting low-level cloud motion at night.

Its sensitivity to heat make it ideal for searching for heat signatures



Himawari RGBs...



AWIPS memory-intensive. Use low frame count; have spare time to wait for loading...





Takeaway Thoughts - ACCESSIBILITY





Himawari

Backyard receiver >> AWIPS

Internet via PRH >> AWIPS

Lots of webpages

LEO

Backyard receiver – **VERY LOW** latency (~<20min)

AWIPS: "IocalSat" / "Guam L/X-Band Antenna"

WFO network PC web browser:

Many webpages

Latency could be a couple of hours +







WFO LEO (Direct Broadcast) Browser



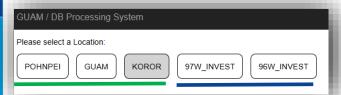












3 Standard Geographic Areas

Dynamic Inclusion of & Centering-On INVs & TCs

GREEN highlights the dataset in the gallery. Images are chronological. Search by sensor/data type. Great for event evolution (INVs/TCs) and easy to save graphics!

Local to Guam Web Browser for DB data products

