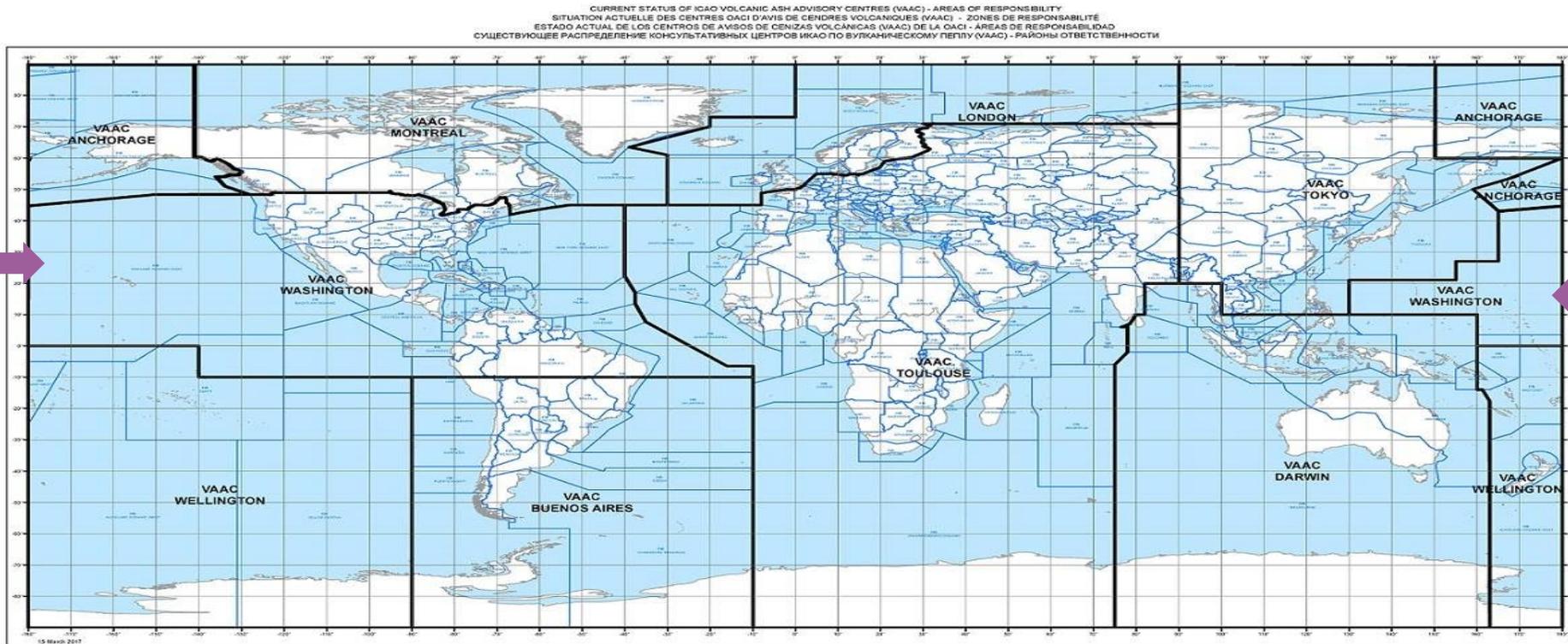


NWSChat

A Collaborative Tool

**Jamie Kibler – Washington Volcanic Ash Advisory
Center Manager, December 7, 2021**

NWSChat – Collaboration Tool



- **9 Volcanic Ash Advisories Centers (VAAC) around the globe**
- **23 Meteorological Watch Offices (MWO) within the Washington VAAC Area of Responsibility (AoR)**
- **15 volcanic ash analyst trained and certified at the Washington VAAC - 24/7/365 operations – We are logged on NWSChat 24/7.**

NWSChat – Collaboration Tool

Products produced present and future by the Washington VAAC

- Volcanic Ash Advisories (VAA)
- Volcanic Ash Graphic (VAG)
- Quantitative Volcanic Ash (QVA), currently in the planning phase and will become an ICAO Annex 3 recommended practice by November 2024/25 and a standard practice for each VAAC by November 2026.

FVXX22 KNES 031506
VA ADVISORY
DTG: 20211103/1506Z

VAAC: WASHINGTON

VOLCANO: RUIZ 351020
PSN: N0453 W07519

AREA: COLOMBIA

SUMMIT ELEV: 17457 FT (5321 M)

ADVISORY NR: 2021/289

INFO SOURCE: GOES-16. NWP MODELS.

ERUPTION DETAILS: CONS VA EMS

OBS VA DTG: 03/1440Z

OBS VA CLD: SFC/FL190 N0455 W07519 - N0453 W07437
- N0437 W07441 - N0452 W07520 - N0455 W07519 MOV
SE 15KT

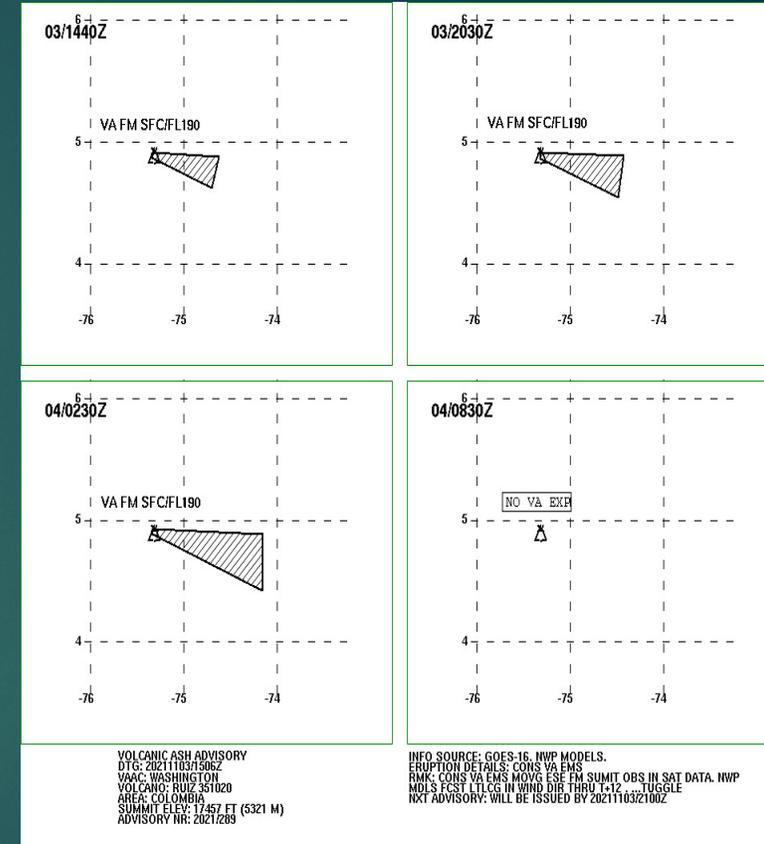
FCST VA CLD +6HR: 03/2030Z SFC/FL190 N0455 W07519
- N0453 W07425 - N0432 W07429 - N0452 W07519 -
N0455 W07519

FCST VA CLD +12HR: 04/0230Z SFC/FL190 N0455
W07520 - N0453 W07409 - N0425 W07410 - N0453
W07520 - N0455 W07520

FCST VA CLD +18HR: 04/0830Z NO VA EXP

RMK: CONS VA EMS MOVG ESE FM SUMIT OBS IN SAT
DATA. NWP MDLS FCST LTLCG IN WIND DIR THRU T+12.
...TUGGLE

NXT ADVISORY: WILL BE ISSUED BY 20211103/2100Z



Ruiz November 3, 2021 ash emission

VAA/VAG issued on November 3rd 2021 for Ruiz volcano in Colombia

NWSChat – Collaboration Tool

Benefits of NWSChat

- The exchange of volcanic ash information between Washington Volcanic Ash Advisory Center (VAAC), Meteorological Watch Office (MWO) and possibly Volcano Observatory (VO) in the future.
- The ability to update information and provide to users quickly.
- **Volcanic Ash Advisories automatically inserted into [washvaac-mwo-chat](#) chatroom for easy access to latest information.**
- Continued collaboration during very active events – 24/7/365.
- **Access to latest non VAAC/MWO volcanic ash information provided to Washington VAAC**

NWSChat-Collaboration Tool

Things to know about NWSChat

- No pictures or images can be automatically added to chatroom. Only links that open in other tabs.
- **Each individual must have their own NWSChat account.**
No group accounts
- Login must be performed every 180 days or account will be deleted.

NWSChat – Collaboration Tool

Why Washington VAAC uses NWSChat as Collaboration Tool

- Continued communication with MWO.
- The ability to adjust VAA/VAG and SIGMET if needed based on new information provided in NWSChat during eruption
- The ability to chat on disagreement on current conditions of erupting volcano, location of current ash and forecast of ash through T+18 hrs.
- Information on erupting volcano when ash is not able to be seen in satellite and forecast is getting much more difficult.

NWSChat Interface

Login - <https://nwschat.weather.gov/live/>

The screenshot displays the NWSChat interface within a web browser. The browser's address bar shows the URL <https://nwschat.weather.gov/live/>. The interface is divided into several sections:

- Map Panel:** Located at the top, it features a map of the United States with a weather overlay. The map is titled "Map Panel" and includes controls for "Map Valid: 10:10 AM", "Tools", and "Opacity".
- Layers Control:** On the right side, there is a "Layers Control" panel with various options such as "Base Layer", "Satellite", "GOES Water V", "GOES West V", "GOES East V", "GOES Visible", "GOES IR", "Precip/RADAR", "NMQ Q2 3 Day", "NMQ Q2 2 Day", and "NMQ Q2 1 Day".
- Chatroom:** The main chat area is titled "washvaac_mwo-chat" and contains a list of messages. The messages include timestamps and content, such as "Wash VAAC issues Volcanic Ash Advisory (VAA) for FUEGO" and "Good morning, thank you".
- Participants:** On the right side of the chat area, there is a "4 people in room" section listing participants: "noaa-jerome.fisher", "noaa-WashVAAC-jamie.kibler", "noaa-zachary.tuggle", and "nwsbot".
- Chatroom List:** On the left side, there is a "Buddies" section listing chatrooms, including "Anchorage CWSU Group", "NWSChat Admin Team", and "washvaac_mwo-chat".

Red arrows and text labels are overlaid on the screenshot to highlight specific features:

- A red arrow points from the text "Different Chatrooms including 'washvaac_mwo-chat'" to the "washvaac_mwo-chat" chatroom in the Buddies list.
- A red arrow points from the text "Chatroom Participants" to the list of participants in the chat area.
- A red arrow points from the text "Past conversations" to the chat messages.
- A red arrow points from the text "Chat box" to the input area at the bottom of the chat window.

NWSChat Interface

Login - <https://nwschat.weather.gov/live/>

The screenshot displays the NWSChat Live interface in a web browser. The chat log shows the following messages:

- (7:57 AM) noaa-zachary.tuggle:** Hello, Due to wx cld cover, im having to base the height off the previous vaa which was FL200. NWP models agree with the SW direction which occurs between FL 180-210
- (8:04 AM) noaa-zachary.tuggle:** I will double check after updating RUIZ and FUEGO and may push an updated VAA for Reventador lowering it to FL160 as the windspeeds look to be more in line with what im seeing now on vis data
- (8:07 AM) aviation-diego.solorzano:** ok thanks, Zachary additional in this moment i have got a report from sangay, can you help with this please
- (8:14 AM) noaa-zachary.tuggle:** I will take a look at Sangay right now
- (8:15 AM) noaa-zachary.tuggle:** I see a hotspot on sangay but cloud cover is preventing me from seeing any ash. Does the report have a direction?
- (8:22 AM) aviation-diego.solorzano:** yes it has sw southwest
- (8:22 AM) nwsbot:** Wash VAAC issues [Volcanic Ash Advisory \(VAA\)](#) for REVENTADOR
- (8:23 AM) aviation-diego.solorzano:** and the level it is 2 report one fl210 and the another one fl260
- (8:23 AM) noaa-zachary.tuggle:** Okay let me check that out. Also, just sent a correction for reventador for FL 160 rather than 200
- (8:23 AM) aviation-diego.solorzano:** thanks
- (8:31 AM) nwsbot:** Wash VAAC issues [Volcanic Ash Advisory \(VAA\)](#) for RUIZ
- (8:47 AM) nwsbot:** Wash VAAC issues [Volcanic Ash Advisory \(VAA\)](#) for SANGAY
- (8:47 AM) noaa-zachary.tuggle:** Went with FI210. if there are two flight levels they appear to be moving in the same direction but ill keep monitoring and update as needed.
- (9:02 AM) nwsbot:** Wash VAAC issues [Volcanic Ash Advisory \(VAA\)](#) for FUEGO

A red arrow points from the text "Collaboration on Sangay and Reventador volcanoes in Ecuador on November 15th with MWO Guayaquil." to the chat message at 8:14 AM.

Collaboration on Sangay and Reventador volcanoes in Ecuador on November 15th with MWO Guayaquil.

Currently only the Guayaquil and Piarco MWO have NWSChat accounts.

NWSChat Interface

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The screenshot displays the NWSChat Live interface in a web browser. The browser's address bar shows the URL <https://nwschat.weather.gov/live/>. The interface is divided into several sections:

- Map Panel:** Located at the top, it features a satellite map of the Pacific region with a volcanic ash advisory overlay. The map is titled "Map Panel" and includes a "Map Valid: 3:45 PM" indicator and an "Opacity" slider.
- Buddies:** A sidebar on the left lists participants in the chat, including "Anchorage CWSU Group", "nws-robert.easton", "NWSChat Admin Team", and "nwsbot".
- Chat Window:** The central area displays a list of messages. A red arrow points to a specific message from "noaa-anthony.d.sambucci" at 8:15 AM, which discusses the update of the volcanic ash advisory for Sangay volcano. Other messages include reports from "aviation-santiago.sevilla" and "nwsbot" regarding ash advisories for SANGAY, REVENTADOR, RUIZ, and FUEGO.
- Layers Control:** A sidebar on the right allows users to toggle various map layers, including "Base Layer", "Satellite", and "GOES" satellite imagery.
- Chatroom Information:** At the bottom right, it indicates "2 people in room" and lists the active participants: "noaa-WashVAAC-jamie.kibler" and "nwsbot".

Collaboration on Sangay on November 28th – MWO Guayaquil

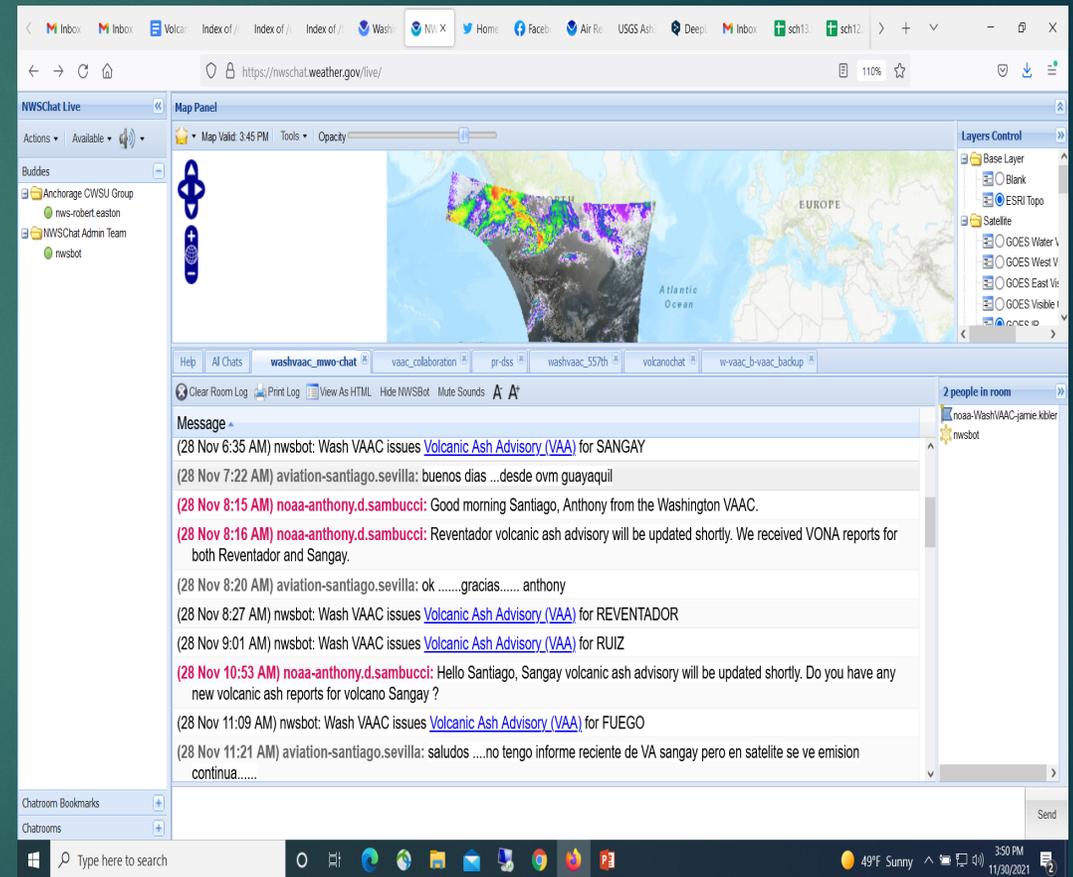


NWSChat Interface

<https://nwschat.weather.gov/live/>

Piarco MWO established NWSChat account for future Soufriere St. Vincent and other Caribbean/West Indies events

- Piarco MWO did not have an account until after the Soufriere St. Vincent eruption event in early/mid April.
- Piarco MWO and VAAC Washington will use the account to exchange information, but most of all to notify each other when updating and especially updating early based on new information.
- The Piarco MWO account has been tested and they have been added to the chatroom



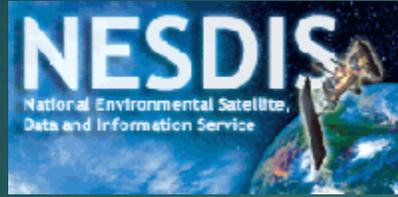
NWSChat – Collaboration Tool

How are VAA/VAG disseminated – *Additional Information*

- **National Weather Service Gateway (NWSTG Gateway)**
- **Automated Fixed Telecommunication Network (AFTN)**
- **Washington VAAC webpage** - <https://www.ssd.noaa.gov/VAAC/messages.html>
- **Washington VAAC Volcano LISTSERV**
- **NWSChat**

Social Media

- **Twitter – WashVAAC – Tweet all Volcanic Ash Advisories and Volcanic Ash Graphics to Twitter for entire Area of Responsibility. @WashVAAC**



Washington Volcanic Ash Advisory Center

Thank You!

Jamie.Kibler@noaa.gov

