

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



ERA23FA380

METEOROLOGY

Attachment 1

September 1, 2024

Submitted by:

Mike Richards
Senior Meteorologist

Michael Richards

Subject: RE: request for FIS-B weather radar images/mosaics and associated times

From: [REDACTED] >
Sent: Thursday, August 29, 2024 12:39 PM
To: Michael Richards [REDACTED]
Subject: RE: request for FIS-B weather radar images/mosaics and associated times

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Michael,

I'm sorry that it took longer than I anticipated to respond. The answers to your questions are below. I've attached the accompanying graphical files in 3 separate emails.

1 - All FIS weather radar mosaics created for public broadcast pertinent to the identified time periods and geographic locations. Is it every two minutes?

Please see the attached files. The files indicate approximately two minutes between creation of mosaics.

2 - The creation time of each of those mosaics.

The file names include the year, month, date and time (hour and minute) of mosaic creation. Each mosaic file includes the "APDU Time" which is the same as the mosaic creation time.

3 - If possible - any information on when contributions were made from individual radars to those mosaics. Maybe if you have an updated presentation on how the mosaics are created nominally, that might answer this question. The Multi-Radar / Multi Sensor composite reflectivity mosaic is received by Harris Weather Data Service as a complete mosaic, therefore, L3Harris does not have insight or access to the time of individual radar contributions to the mosaic.

4 - The time stamp associated with each mosaic that is displayed by the avionics and observed by the avionics' user (maybe just the mosaic "creation time"?, not sure how these radar messages are encoded). Each mosaic file includes the "APDU Time" time stamp which is the same as the mosaic creation time.

5 - Most importantly – the broadcast time of each mosaic to the public.

We were able to recover the uplink times associated with the incidents identified in your request. This data shows that the time between mosaic creation and FIS-B uplink time when the data becomes available to the public is approximately 2 minutes. Please note that this does not account for any processing delays that may occur with the equipment available on each individual aircraft.

Regards,

Paul Freeman

Deputy Program Manager, ADS-B/SBS

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[REDACTED]



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