

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

November 19, 2021

Global Positioning System

**Factual Report
By Heidi Kemner**

1. EVENT SUMMARY

Location: Villa Rica, Georgia
Date: November 8, 2021
Aircraft: Mooney M20F
Registration: N3284F
NTSB Number: ERA22FA050

2. DETAILS OF INVESTIGATION

On November 8, 2021, about 1255 eastern standard time, a Mooney M20F, N3482F, was substantially damaged when it was involved in an accident near Villa Rica, Georgia. The airline transport pilot was fatally injured. The airplane was operated as a Title 14 Code of Federal Regulations Part 91 personal flight.

The following device was downloaded:

Device Manufacturer/Model: Garmin GPSmap 396
Serial Number: 28206560

2.1. Data Recovery

The device was undamaged and was downloaded normally using the manufacturer's software. Figures 1 and 2 show the front and back of the device.



Figure 1. Photo of undamaged device.



Figure 2. View of back of GPS

2.2. Data Description

The data extracted included 49 track logs from December 10, 2020, through November 8, 2021. The accident flight was recorded starting 12:45:40 EST and ending 12:57:23 EST on November 8, 2021.

Below is a graph of the elevation data from the accident flight.

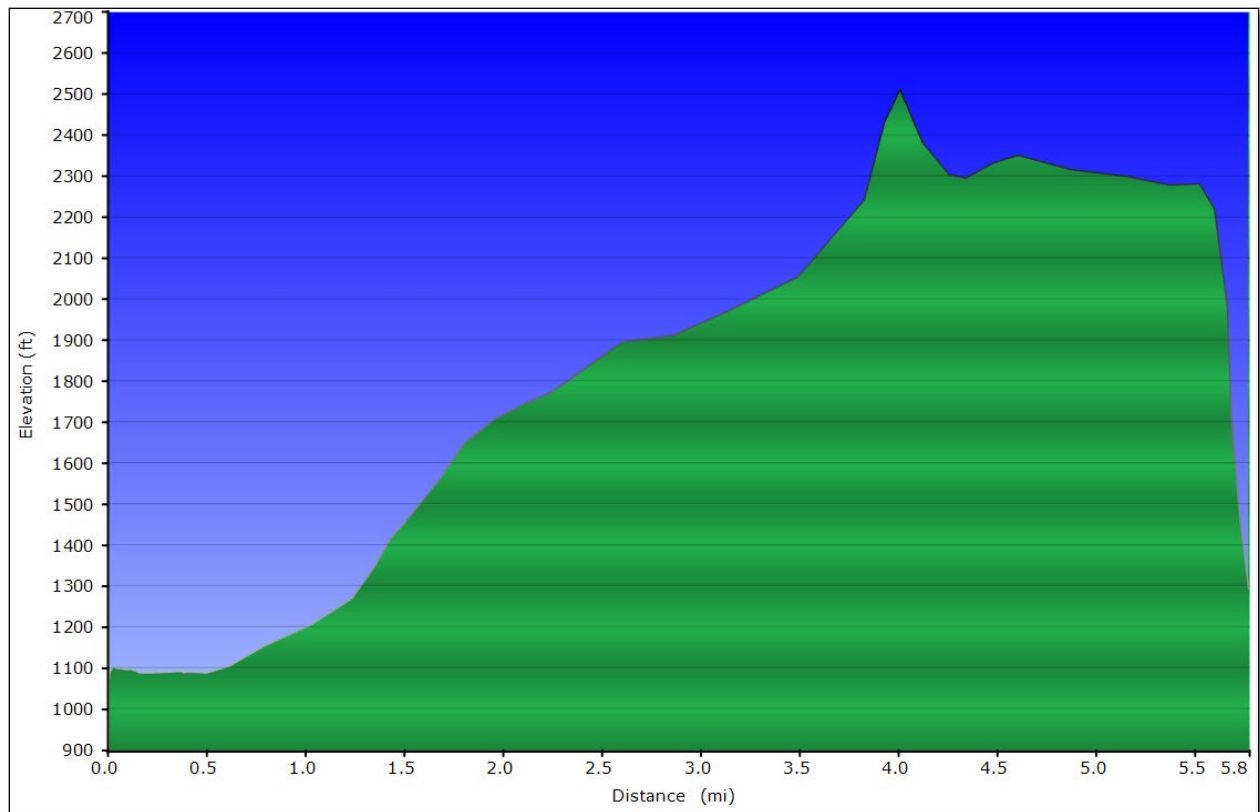


Figure 3. Graph of elevation data from accident flight.

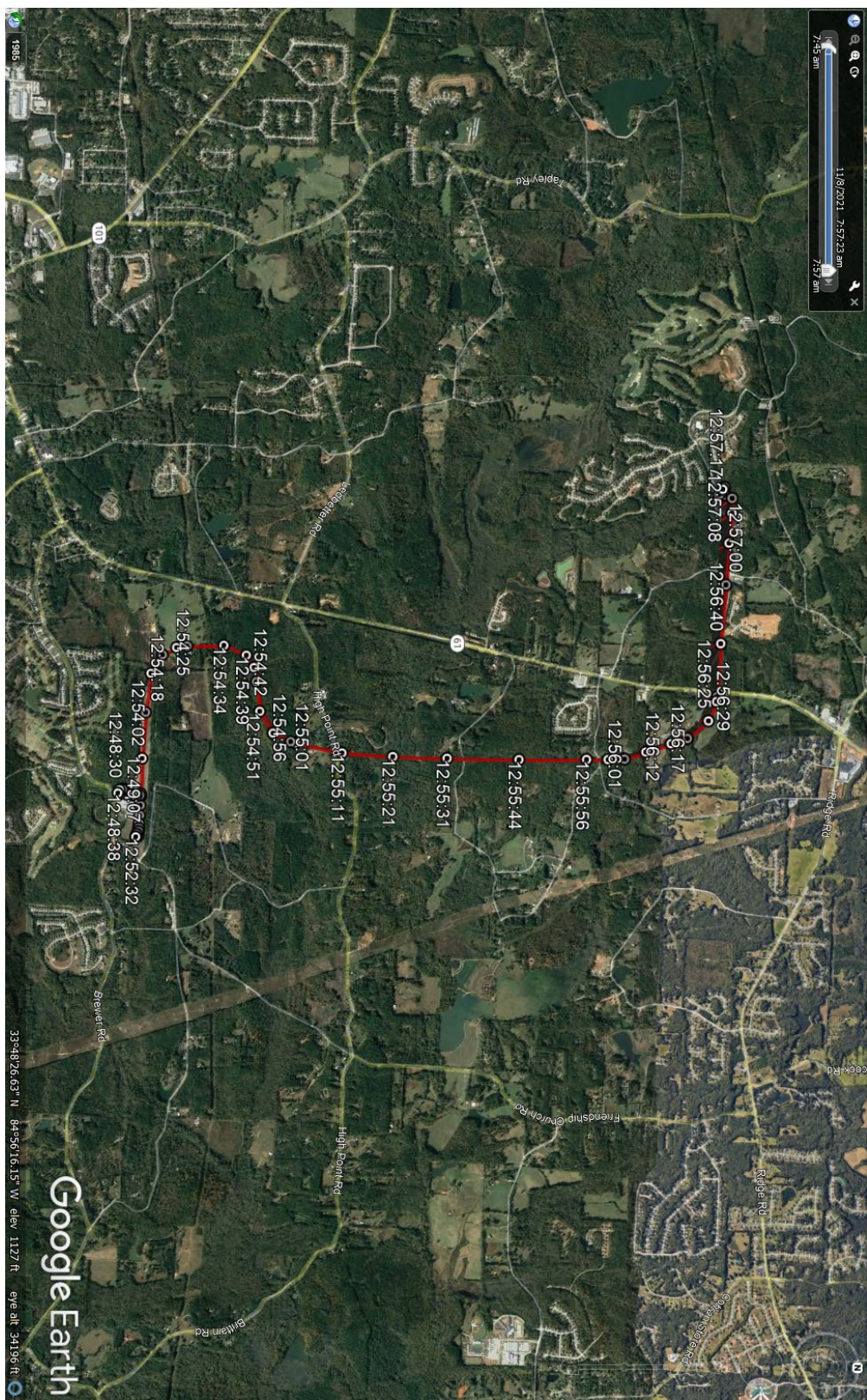


Figure 4. Google earth image of accident flight data from Garmin GPSmap 396

2.3. TABULAR DATA

Tabular data are included as Attachment 1. This attachment is provided in electronic comma-delimited (.CSV) format.