

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

March 9, 2021

Global Positioning System

Factual Report
By Joshua Lindberg

1. EVENT SUMMARY

Location: Corsica, South Dakota
Date: July 27, 2020
Aircraft: Cessna A188
Registration: N53163
Operator: Private
NTSB Number: CEN20LA309

2. DETAILS OF INVESTIGATION

The following device was downloaded:

Device Manufacturer/Model: Garmin aera510 GPS
Serial Number: 1QR002642

2.1. Data Recovery

The exterior case of the device was undamaged, but the screen exhibited an impact mark which rendered the screen unusable; the device powered on normally. A successful download was completed using the manufacturer's software. Figures 1 and 2 show the front and back of the device.

Figure 1. Front of device



Figure 2. Back of device



2.2. Data Description

The data extracted included 9,999 points which was one continuous track log from July 15, 2020, at 15:56:19 to July 27, 2020 at 10:47:43. The accident flight was captured in a segment of the log starting on July 27, 2020 at 09:03:31 and ending 10:47:43. The final data point for the accident flight, recorded at 10:47:43, was at 43.42704 x -98.08333, and elevation 1,628 ft (about 160 ft agl).

2.3. TABULAR DATA

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