

NATIONAL TRANSPORTATION SAFETY BOARD

Alaska Region
Anchorage, Alaska

March 19, 2017

Global Positioning System

Factual Report
By Noreen Price

1. Event Summary

Location: Nome, Alaska
Date: March 5, 2017
Aircraft: Cessna 172
Registration: N736AS
Operator: Private Pilot
NTSB Number: ANC17FA018

2. Details of Investigation

The following device was downloaded:

Device Manufacturer/Model:	Garmin GPSmap 296
Serial Number:	10C005804

2.1. Data Recovery

The device was received from the Alaska State Trooper Nome office in undamaged condition and was downloaded normally using the manufacturer's software. Figures 1 and 2 show the front and back of the device.



Figure 1. Garmin GPSmap 296 front view.



Figure 2. Back view

2.2. Data Description

The data extracted included 64 air log sessions from September 7, 2015, through March 5, 2017. The accident flight was recorded in air log number 63, starting 0504:10 pm Alaska standard time (AKST) and ending 1022:39 pm on March 5, 2017 and included 1341 data line entries. The total elapsed time of air log 63 was 5 hrs, 18 minutes and 29 seconds. The total moving elapsed time was 5 hours, 14 minutes and 32 seconds. The total distance recorded was 518 nautical miles and the maximum GPS altitude was 9,109.

ACTIVE LOG 063			
Summary	Time	Speed	Elevation
Points: 1341	Elapsed Time: 5:18:29	Avg: 98 kt	Min: 147 ft Ascent: 22126 ft
Distance: 518 nm	Moving Time: 5:14:32	Avg Moving: 99 kt	Max: 9109 ft Descent: 21928 ft
Area: 6021 sq mi	Stopped Time: 0:03:57	Min: 0.0 kt	Grade: -0.0 %
		Max: 117 kt	

2.3. Tabular Data

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

2.4. Graphical Display

Figure 3. depicts an overlay of the GPS data on Google Earth map for the route of flight.

Figure 4. depicts an overlay of the GPS data on Google Earth map for the end of the flight.

Figure 5. depicts a graph of altitude and speed of the entire flight.

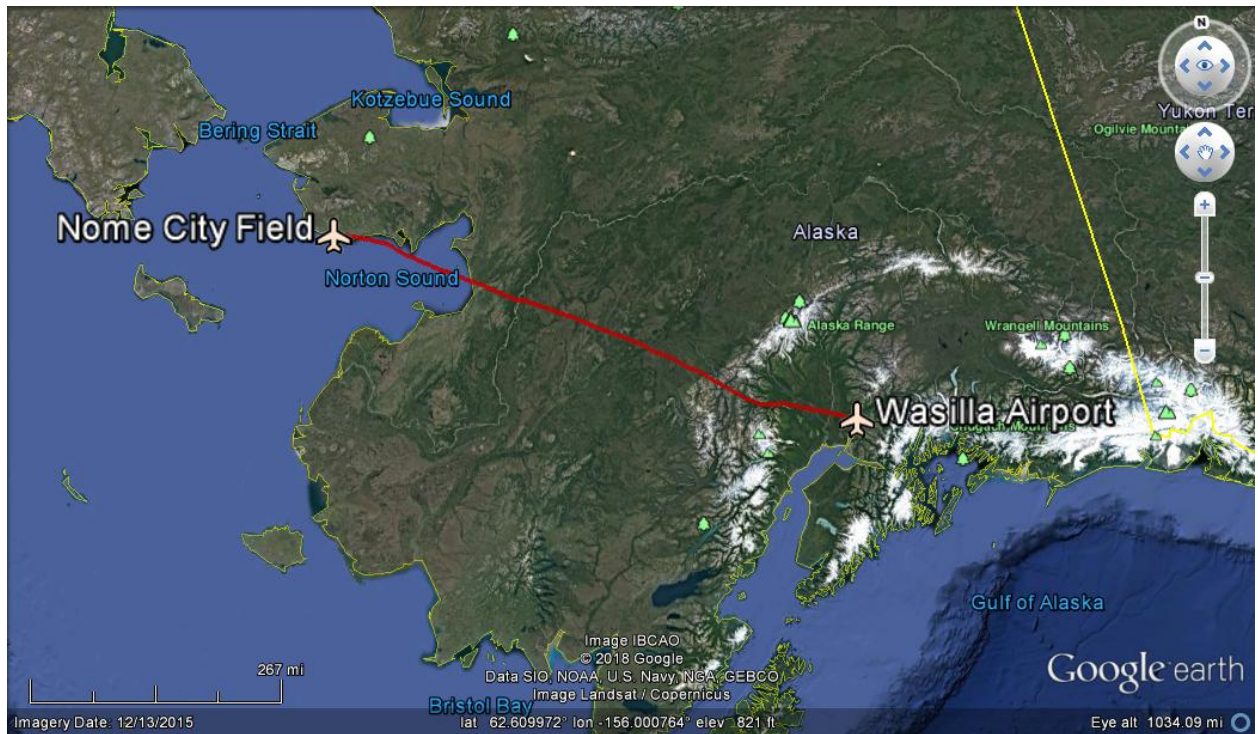


Figure 3. N736AS GPS data for whole route.



Figure 4. GPS end of flight route.

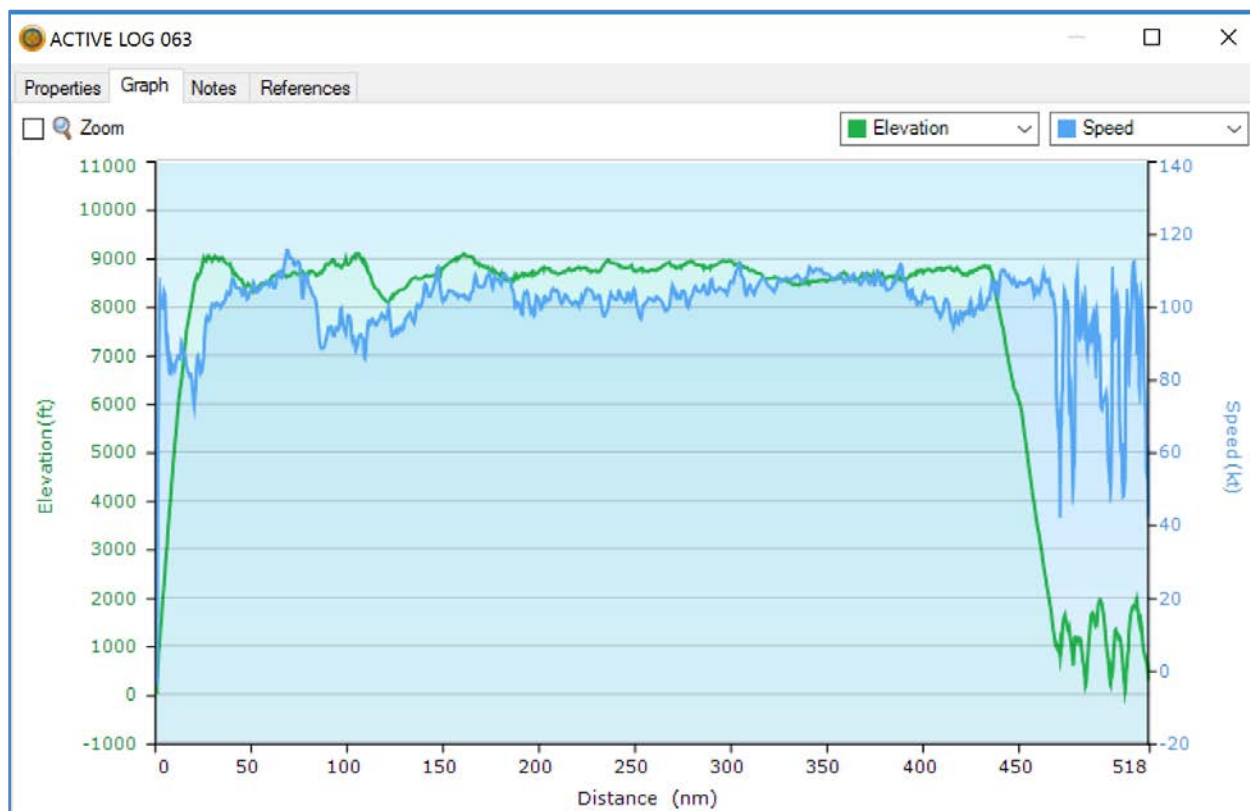


Figure 5. GPS data graph of elevation and groundspeed for entire flight.