



The National Transportation Safety Board

Office of Aviation Safety
Central Region
Memorandum for the Record
ATC Communications and
ADS-B Graphics
CEN20LA127
Pleasant Prairie, Ohio
October 17 2018

ADS-B data is aircraft global positioning system (GPS) derived position reports and other aircraft information transmitted by the airplane and received through a ground infrastructure and shared with other users within the national airspace system (NAS). Air traffic controllers across the nation can monitor aircraft using either ground based radar or ADS-B.

To improve the consistency and reliability of ADS-B and radar returns, airplanes are equipped with transponders. For ADS-B equipped airplanes, the transponders are assigned a unique Mode S address for each airplane. The assigned Mode S transponder address for N314VR was A35798 and the accident airplane was assigned an ATC transponder beacon code of 2341. The ADS-B data for this report was obtained from the FAA and was of good quality.

Communications between the pilot and air traffic control (ATC) were obtained from the FAA.

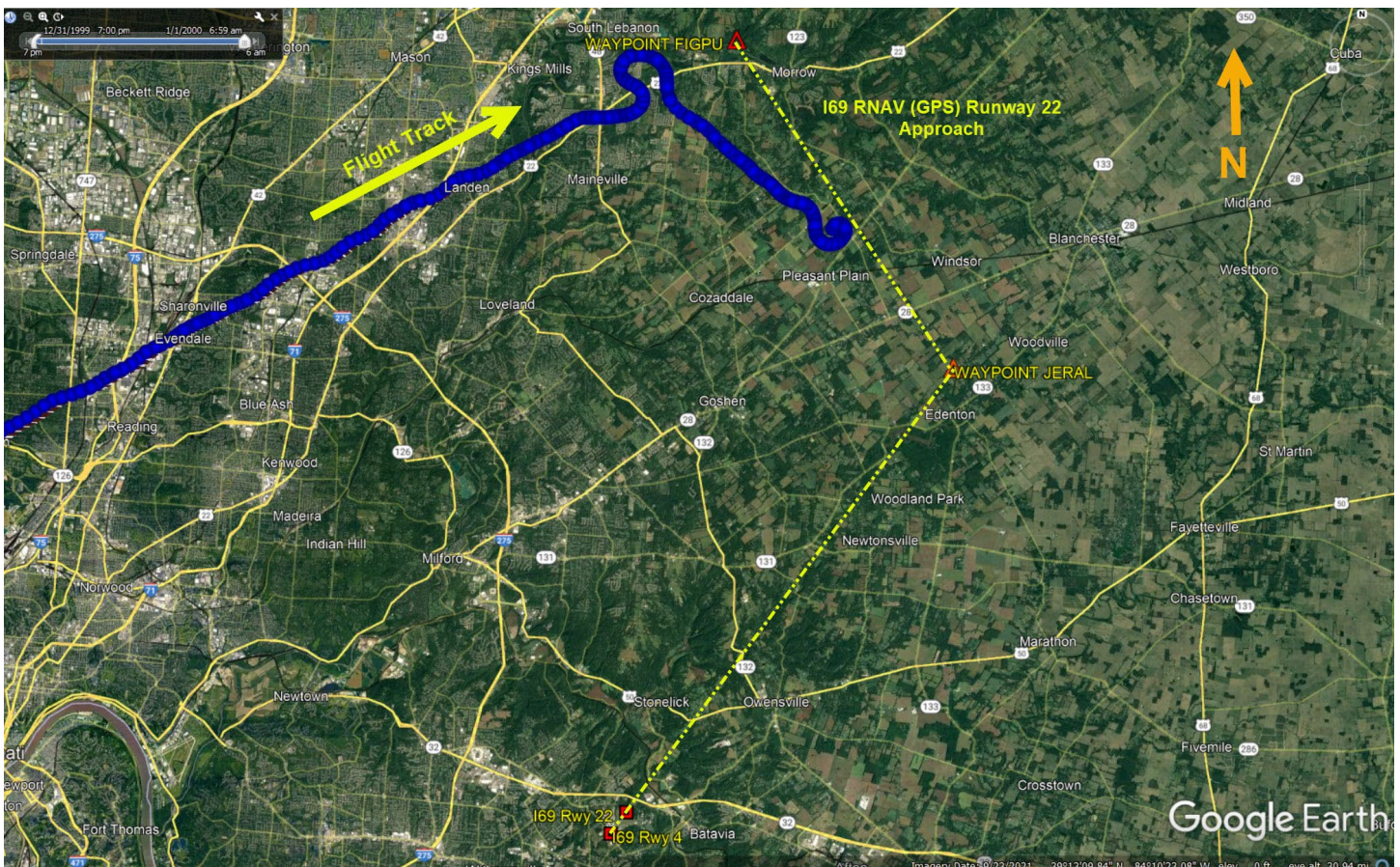


Figure 1 Flight Path

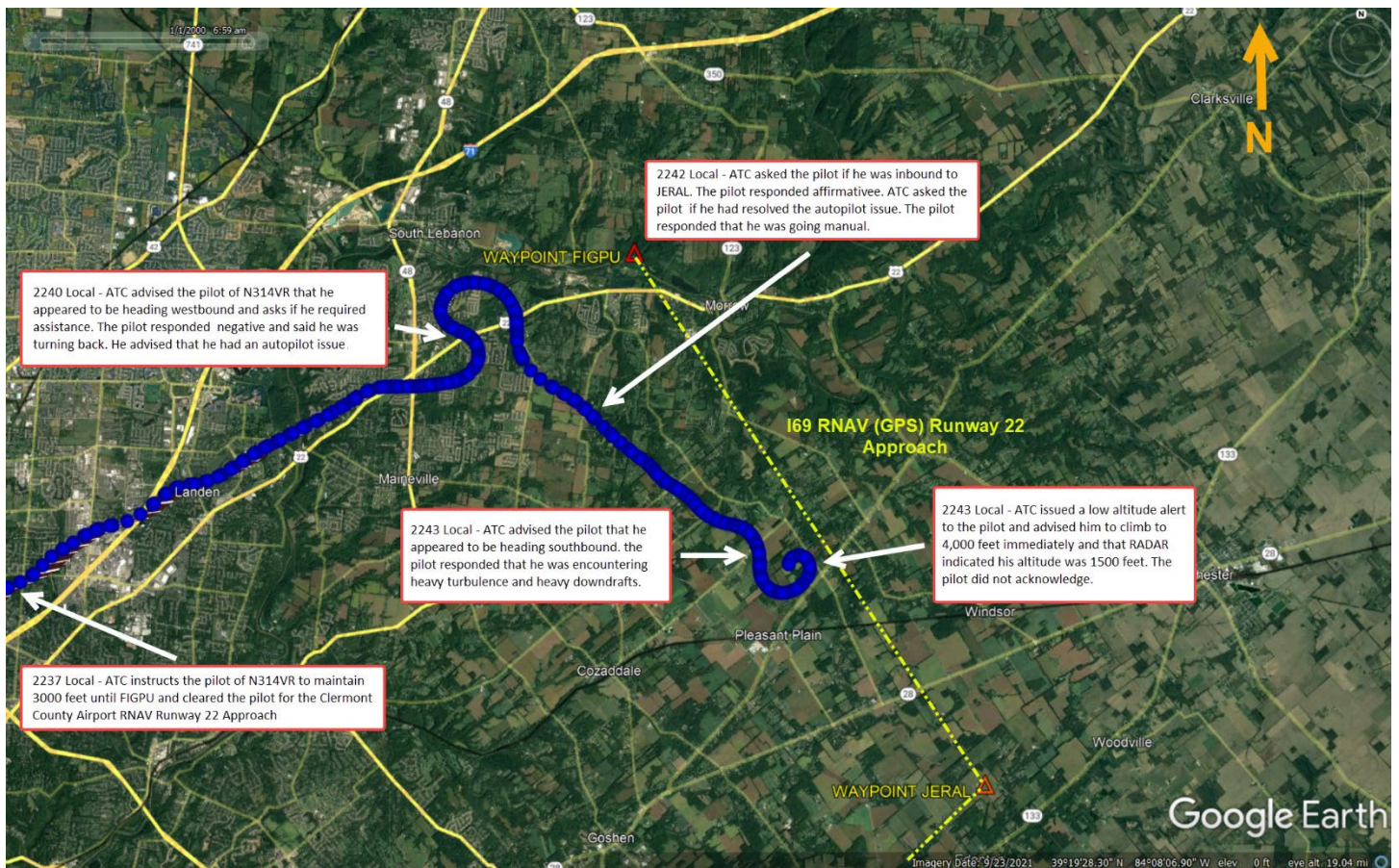
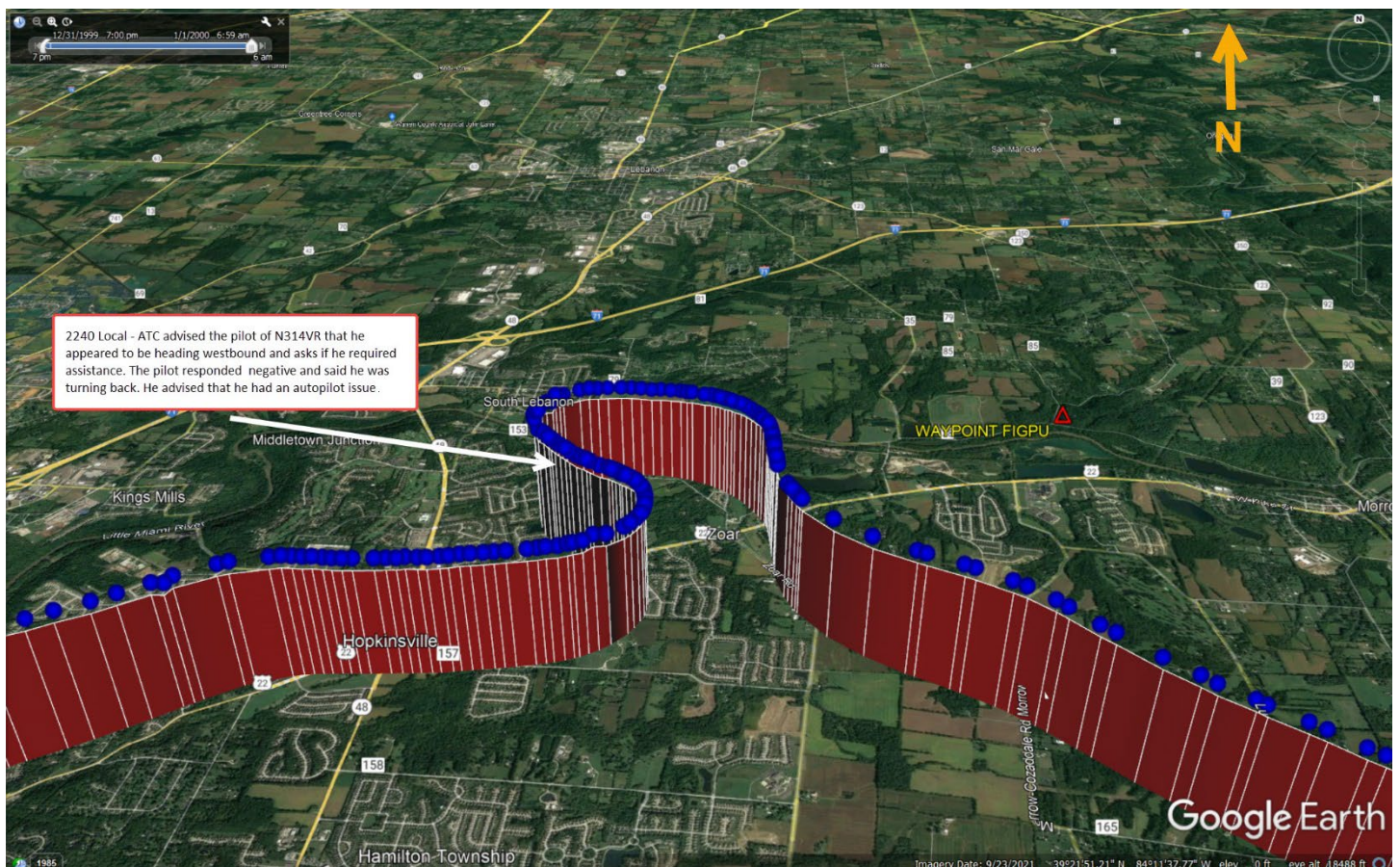


Figure 2 Final Portion of Flight Path with Pilot/ATC Communications



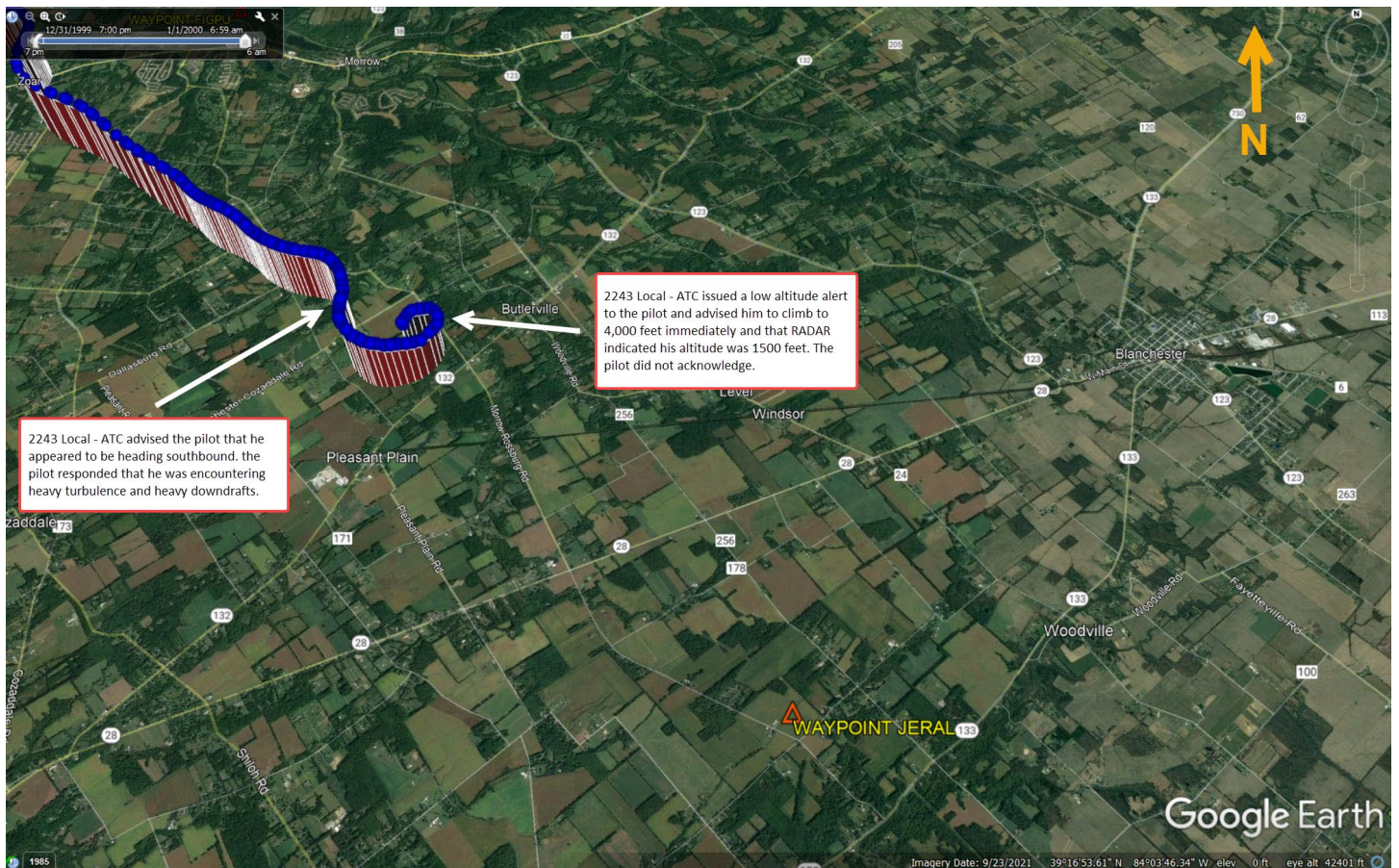
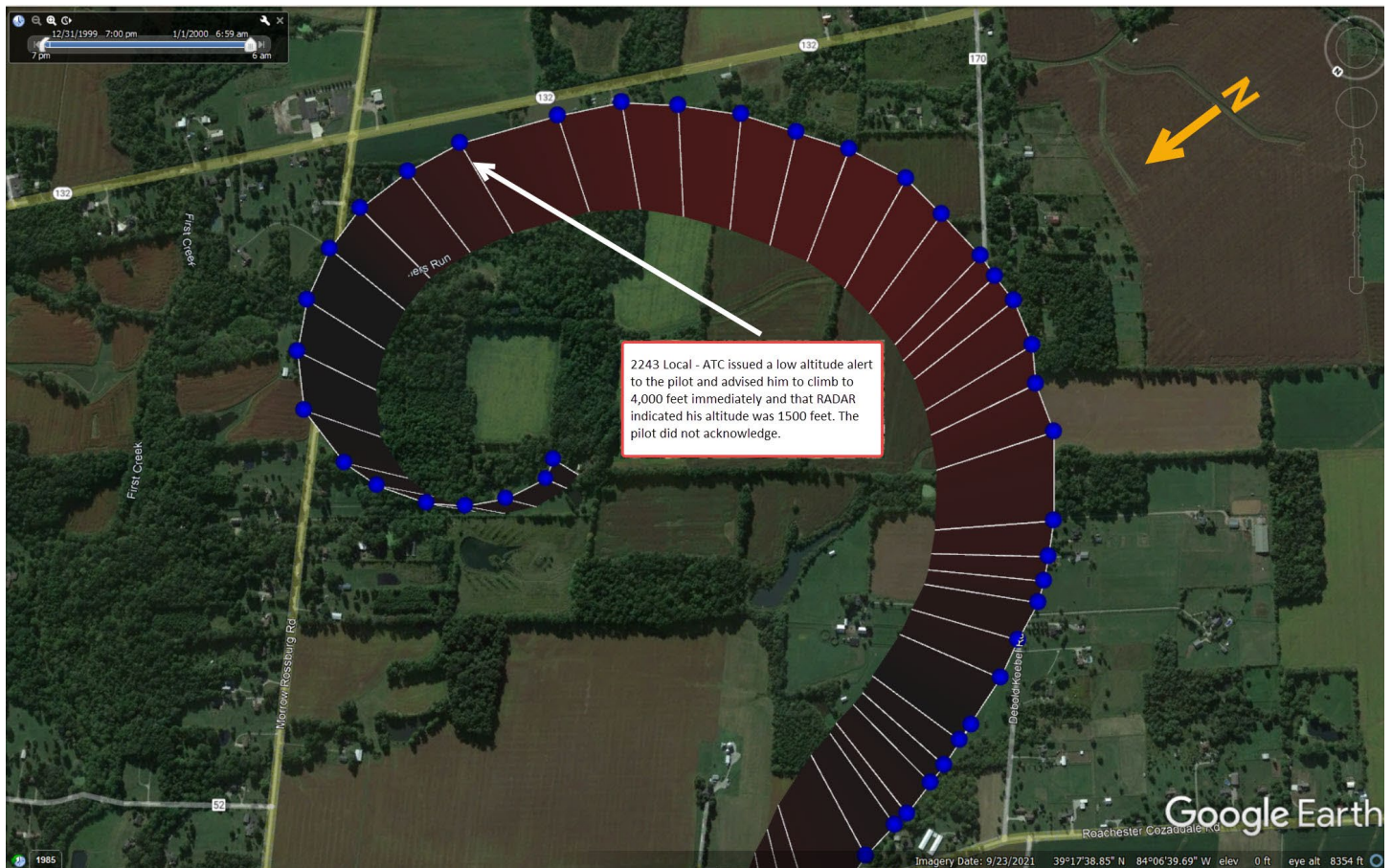


Figure 4 Final Segment of Flight Path



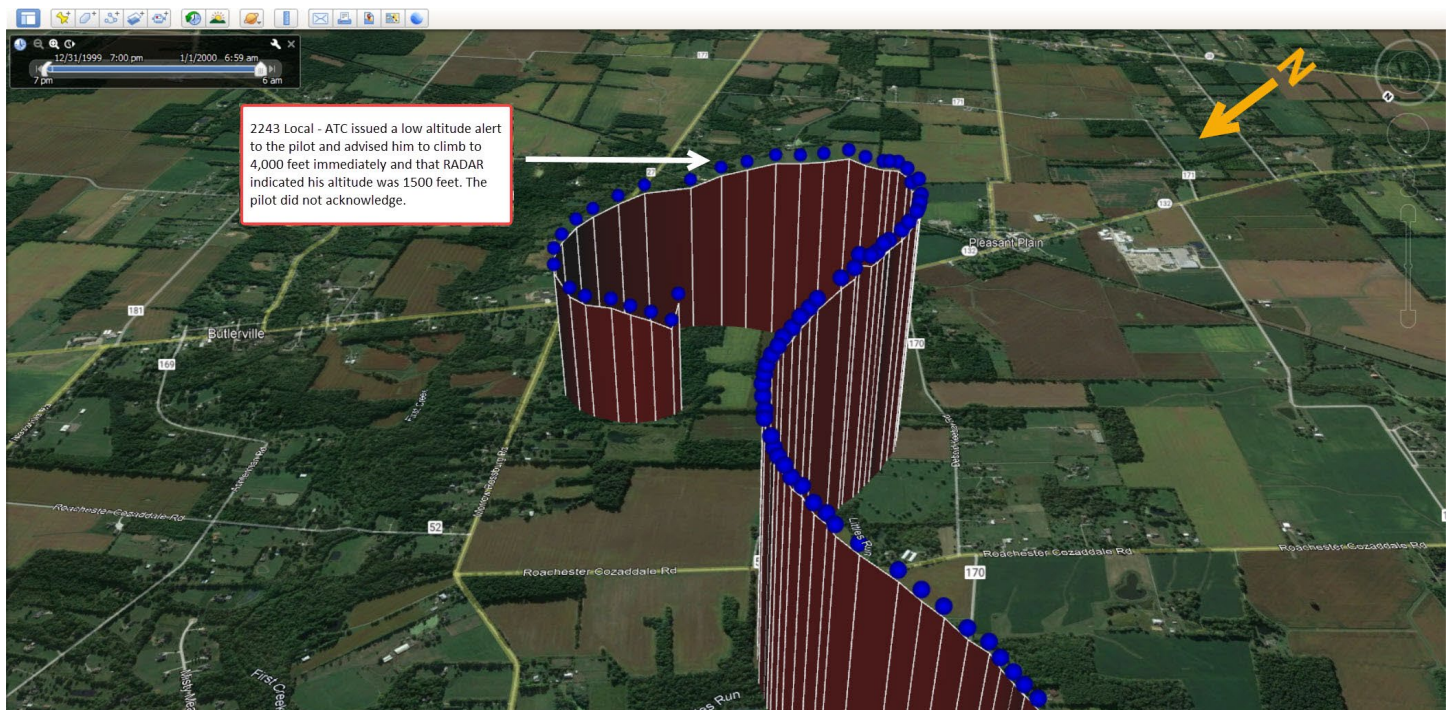


Figure 6 Final Segment of Flight Path Profile View

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