



National Transportation Safety Board



Hageland Aviation

Cessna 208B Grand Caravan

October 2, 2016

Togiak, Alaska

Shaun Williams

Investigator-in-Charge

Flight Crew

- Flight crew consisted of two pilots
- Only one pilot required by aircraft type design
- Second pilot added to allow pilots to be scheduled for up to 10 hours of flight time

Flight Crew

- Pilot-in-command (PIC)
 - More than 6,500 total flight hours
 - Completed CFIT-avoidance computer-based training
 - Completed Medallion CFIT simulator per Medallion program

Flight Crew

- Second-in-command (SIC)
 - About 277 total flight hours
 - Completed CFIT-avoidance computer-based training
 - No training document indicating completion of simulator training

Flight Release Procedures

- General operations manual (GOM) states:
 - Flight risk assessment before every flight
 - Joint responsibility between PIC and operations control agent (OCA)

History of Flight

- Scheduled for 5 legs
- PIC spoke with OCA before 1st leg
- OCA recommended IFR because of weather
- PIC disagreed
- Flight was released under VFR at 9:25 am

History of Flight

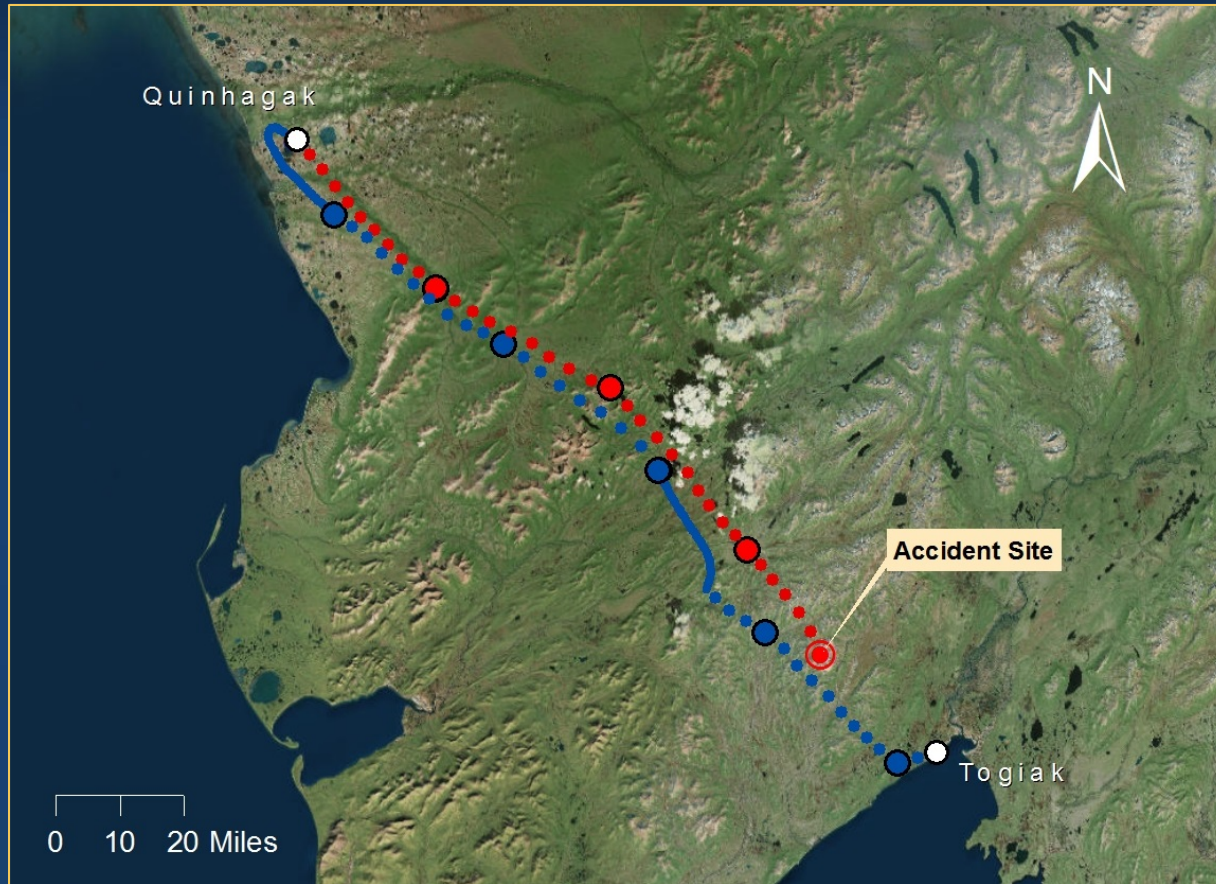
- First Leg: Bethel to Togiak
 - Leg was flown about 1,000 ft msl
- Second Leg: Togiak to Quinhagak
 - Leg was flown about 4,500 ft msl

History of Flight

Third leg: Quinhagak to Togiak

- Departed about 11:33 am
- Leg was flown about 1,000 ft msl
- Accident occurred about 11:57 am
- No flight crew communication with OCA before departure

History of Flight



Departing Weather Conditions



Arrival Airport Weather Conditions



Satellite Tracking

- 6-minute intervals
- Last track information at 1153
 - 1,043 ft
 - 144 knots
 - Heading 140°

Initial Impact and Wreckage Locations



Medallion Foundation

- Not-for-profit organization with IRS 501(c)(3) status
- Created in 2001 with the goal of improving aviation safety in Alaska
- FAA grant recipient

Medallion Foundation Shield Program

- Develop and maintain higher level of safety
- To earn shield, applicant first must earn five stars by completing training, creating a manual, and passing an audit

CFIT Avoidance

Operational Control

Maintenance and Ground Service

Safety

Internal Evaluation

Medallion Foundation Shield Carrier

- Star in controlled flight into terrain (CFIT) avoidance in June 2005
- Star in operational control in April 2014
- Medallion Shield in June 2016

Safety Issues

Panel 1 – CFIT Avoidance

- CFIT avoidance
- Onboard terrain awareness technology
- FAA oversight of Hageland's CFIT-avoidance program
- Alaska weather sources, products, and limitations

Safety Issues

Panel 2 – Operational Control

- Guidance and training
- Pilot authority
- Role of departure control agents
- FAA oversight

Safety Issues

Panel 3 – Safety Management and Oversight

- Medallion Foundation Shield program
- Medallion oversight of participating carriers
- Hageland safety programs

