



# Aviation Investigation Final Report

<b>Location:</b>	HINCHINBROOK, Alaska	<b>Accident Number:</b>	ANC85LA004
<b>Date &amp; Time:</b>	October 14, 1984, 10:30 Local	<b>Registration:</b>	N4863C
<b>Aircraft:</b>	CESSNA U206	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 135: Air taxi & commuter - Non-scheduled		

## Analysis

INVESTIGATION REVEALED THAT THE NOSE GEAR TORQUE LINK BOLT SHEARED DURING THE LANDING ROLL ON AN ABANDONED SAND AIRSTRIP CAUSING THE GEAR COLLAPSE AND NOSEOVER. METALLURGICAL TESTING DISCLOSED EVIDENCE OF LONG TERM PROGRESSION OF SEVERE CORROSION BETWEEN THE BOLT AND IT'S SLEEVE THE ACFT HAD BEEN INVOLVED IN OPERATIONS REQUIRING MULTIPLE TAKEOFFS AND LANDINGS PER HOUR, MANY OF WHICH WERE ON SALT WTER BEACHES.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

### Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION  
Phase of Operation: LANDING - ROLL

Findings  
1. (C) LANDING GEAR,NOSE GEAR ASSEMBLY - CORRODED  
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Occurrence #2: NOSE GEAR COLLAPSED  
Phase of Operation: LANDING - ROLL  
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Occurrence #3: NOSE OVER  
Phase of Operation: LANDING - ROLL

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	29, Male
<b>Airplane Rating(s):</b>	Single-engine land; Single-engine sea	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	May 25, 1984
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	4860 hours (Total, all aircraft), 1500 hours (Total, this make and model), 4790 hours (Pilot In Command, all aircraft), 350 hours (Last 90 days, all aircraft), 31 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N4863C
<b>Model/Series:</b>	U206 U206	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	U20603856
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	March 5, 1984 100 hour	<b>Certified Max Gross Wt.:</b>	3600 lbs
<b>Time Since Last Inspection:</b>	36 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4343 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-520-F
<b>Registered Owner:</b>	JAMES M. FOODE	<b>Rated Power:</b>	300 Horsepower
<b>Operator:</b>	CHITINA AIR SERVICE	<b>Operating Certificate(s) Held:</b>	On-demand air taxi (135)
<b>Operator Does Business As:</b>	CHITINA AIR SERVICE	<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	90 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	0°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	4°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	CORDOVA , AK (CKU )	<b>Type of Flight Plan Filed:</b>	Company VFR
<b>Destination:</b>	HINCHINBROOK , AK	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	10:15 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	STRAWBERRY POINT	<b>Runway Surface Type:</b>	
<b>Airport Elevation:</b>	30 ft msl	<b>Runway Surface Condition:</b>	Rough;Soft
<b>Runway Used:</b>	5	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	1800 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	60.789531,-145.609405(est)

## Administrative Information

**Investigator In Charge (IIC):** Stella, Marc

**Additional Participating Persons:**

**Original Publish Date:**

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.ntsb.gov/Docket?ProjectID=4434>

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