

Aviation Investigation Final Report

Location:	MINCHUMINA, Ala	ska	Accident Number:	ANC85LA018
Date & Time:	November 11, 1984	4, 14:00 Local	Registration:	N6821B
Aircraft:	PIPER	PA-22	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 91: General av	riation - Personal		

Analysis

THE ACFT MADE A HARD LANDING ON A FROZEN LAKE DURING A PRECAUTIONARY LANDING. THE PLT SAID THAT CARGO ON BOARD HAD SHIFTED IN FLT AND HE ALSO HAD A LOSS OF 15 MPH IN AIRSPEED. THINKING IT MIGHT BE AN ICING PROBLEM, THE PLT MADE THE UNSCHEDULED LANDING. NO ICE WAS FOUND ON THE ACFT AFTER LANDING BUT THE ACFT WAS SUBSTANTIALLY DAMAGED BY THE IMPACT.

Probable Cause and Findings

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

Findings

Occurrence #1: CARGO SHIFT Phase of Operation: CRUISE - NORMAL

Findings

1. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND

2. (F) LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND

3. (C) TIE DOWN - INADEQUATE - PILOT IN COMMAND

4. (C) AIRCRAFT WEIGHT AND BALANCE - IMPROPER - PILOT IN COMMAND

5. (F) PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT IN COMMAND

Occurrence #2: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings 6. (F) LANDING GEAR, MAIN GEAR ATTACHMENT - OVERLOAD

Factual Information

Pilot Information

Certificate:	None	Age:	35,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Expired	Last FAA Medical Exam:	October 2, 1980
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	41 hours (Total, all aircraft), 41 hours (Total, this make and model), 23 hours (Pilot In Command, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N6821B
Model/Series:	PA-22 PA-22	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-4117
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	November 6, 1984 Annual	Certified Max Gross Wt.:	1840 lbs
Time Since Last Inspection:	2 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3663 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, aided in locating accident	Engine Model/Series:	O-320-A2B
Registered Owner:	MICHAEL A JUDD	Rated Power:	150 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Unknown	Visibility	5 miles
Lowest Ceiling:	Unknown / 2500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	-21°C
Precipitation and Obscuration:	N/A - None - Haze		
Departure Point:	FAIRBANKS , AK (FAI)	Type of Flight Plan Filed:	None
Destination:	MINCHUMINA , AK (MHM)	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	
Runway Length/Widtl	1:	VFR Approach/Landing:	Precautionary landing;Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	Daw, Roy	
Additional Participating Persons:	SHANE MURRAY; FAIRBANKS , AK GARY CHILDERS; FAIRBANKS , AK	
Original Publish Date:		
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=4446	

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available here.