

Aviation Investigation Final Report

Location:	WRANGELL, Alask	а	Accident Number:	DEN90FA053
Date & Time:	February 7, 1990, ⁻	15:13 Local	Registration:	CGNMJ
Aircraft:	BELL	205A-1	Aircraft Damage:	Destroyed
Defining Event:			Injuries:	6 Fatal, 2 Serious
Flight Conducted Under:	Part 91: General av	viation		

Analysis

THE HELICOPTER, C-GNMJ, CRASHED ON A FRZN RIVER AS MINERS WERE BEING TRANSPORTED FROM THE JOHNNY MOUNTAIN GOLD MINE (NEAR THE U.S./CANADIAN BORDER) TO WRANGELL, AK. THE PLT COULD NOT RECALL THE ACCIDENT & THE SURVIVING PASSENGER (PAX) REFUSED TO BE INTERVIEWED. ANOTHER HELICOPTER WAS EN ROUTE FROM WRANGELL TO THE MINE SITE AT THE SAME TIME. THE PLT OF THE OTHER HELICOPTER MADE 2 ATTEMPTS TO PENETRATE THE BACK SIDE OF THE SNOW SQUALL & FAILED. AFTER REVERSING COURSE TO RTRN TO WRANGELL, THAT PLT SIGHTED THE WRECKAGE OF C-GNMJ. PASSENGERS WHO HAD FLOWN TO WRANGELL ABOARD C-GNMJ ON A PREVIOUS TRIP SAID THEY HAD ENCOUNTERED SNOW SQUALLS & WHITEOUT CONDITIONS. AT ONE POINT, ONE OF THE PAX BELIEVED THE HELICOPTER WAS IN A HOVER. HE SAID IT THEN CAME OUT OF THE SQUALL IN A STEEP BANK. A FORMER EMPLOYEE RPRTD THAT COMPANY OFFICIALS PRESSURED THE PLTS TO COMPLETE THEIR FLTS, IN SPITE OF MARGINAL WX CONDITIONS.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S CONTINUED VFR FLIGHT INTO INSTRUMENT METEOROLOGICAL CONDITIONS (IMC), AND HIS FAILURE TO MAINTAIN CONTROL OF THE AIRCRAFT DUE TO SPATIAL DISORIENTATION. FACTORS RELATED TO THE ACCIDENT WERE: COMPANY INDUCED PRESSURE TO MAKE THE FLIGHT, THE PILOT'S DECISION TO INITIATE FLIGHT INTO KNOWN ADVERSE WEATHER CONDITIONS, HIS LACK OF INSTRUMENT EXPERIENCE, HIS OVERCONFIDENCE IN HIS PERSONAL ABILITIES, AND THE ADVERSE WEATHER CONDITIONS.

Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER Phase of Operation: CRUISE

Findings

(F) FLIGHT INTO KNOWN ADVERSE WEATHER - INITIATED - PILOT IN COMMAND
(F) WEATHER CONDITION - FOG
(F) WEATHER CONDITION - SNOW
(F) WEATHER CONDITION - OBSCURATION
(F) WEATHER CONDITION - WHITEOUT
(C) VFR FLIGHT INTO IMC - CONTINUED - PILOT IN COMMAND
(F) OVERCONFIDENCE IN PERSONAL ABILITY - PILOT IN COMMAND
(F) COMPANY-INDUCED PRESSURE - COMPANY/OPERATOR MANAGEMENT
(F) LACK OF TOTAL INSTRUMENT TIME - PILOT IN COMMAND

Occurrence #2: LOSS OF CONTROL - IN FLIGHT Phase of Operation: MANEUVERING

Findings

10. (C) AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND 11. (C) SPATIAL DISORIENTATION - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation: DESCENT - UNCONTROLLED

Findings

12. TERRAIN CONDITION - WATER, FROZEN

Factual Information

Pilot Information

Certificate:	Commercial	Age:	26.Male
Certificate.	Commercial	Aye.	20,1418
Airplane Rating(s):	None	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical–w/ waivers/lim	Last FAA Medical Exam:	April 14, 1989
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	4500 hours (Total, all aircraft), 1100 hours (Total, this make and model), 120 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELL	Registration:	CGNMJ
Model/Series:	205A-1 205A-1	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	30264
Landing Gear Type:	High skid	Seats:	13
Date/Type of Last Inspection:	January 11, 1990 100 hour	Certified Max Gross Wt.:	9500 lbs
Time Since Last Inspection:	91 Hrs	Engines:	1 Turbo shaft
Airframe Total Time:	7160 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	T5313B
Registered Owner:	NORTHERN MOUNTAIN HELIC. INC.	Rated Power:	1250 Horsepower
Operator:	NORTHERN MOUNTAIN HELICOPTERS	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

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Conditions at Accident Site:	Instrument (IMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Unknown	Visibility	
Lowest Ceiling:	100 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	N/A - None - Fog		
Departure Point:	JOHNNY MOUNTAIN (NONE)	Type of Flight Plan Filed:	Company VFR
Destination:	WRANGELL , AK (WRG)	Type of Clearance:	None
Departure Time:	15:10 Local	Type of Airspace:	Class G

Airport Information

Airport: Runway Surface Type:		
Airport Elevation:	Runway Surface Condition:	
Runway Used: 0	IFR Approach:	None
Runway Length/Width:	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Fatal, 1 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:	5 Fatal, 1 Serious	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	6 Fatal, 2 Serious	Latitude, Longitude:	56.409336,-131.610885(est)

Administrative Information

Investigator In Charge (IIC):	Scott, Arnold	
Additional Participating Persons:	ROBERT W KOLVIG; JUNEAU , AK JAMES R ARNOLD; FORT WORTH , TX CHARLES C HERRON; FORT WORTH , TX REGEAN LANTHIER; OTTAWA	
Original Publish Date:	June 10, 1991	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=17817	

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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.