



# Aviation Investigation Final Report

<b>Location:</b>	Kukaklek Lake, Alaska	<b>Accident Number:</b>	GAA18CA581
<b>Date &amp; Time:</b>	September 23, 2018, 18:00 Local	<b>Registration:</b>	N9RW
<b>Aircraft:</b>	De Havilland DHC 2 MK. I(L20A)	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Dragged wing/rotor/float/other	<b>Injuries:</b>	2 Minor, 5 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Other work use		

## Analysis

The pilot of the float-equipped airplane reported that, during landing on a river to pick up passengers, he observed that the river was low and that sand bars were visible. During takeoff, the left float contacted a sand bar in shallow water, and the airplane impacted the river bank.

The airplane sustained substantial damage to the left wing.

The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

## Probable Cause and Findings

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

The pilot's failure to see and avoid a sand bar during a water takeoff, which resulted in the airplane impacting a river bank.

## Findings

<b>Personnel issues</b>	Monitoring environment - Pilot
<b>Environmental issues</b>	(general) - Effect on operation



## Factual Information

### History of Flight

<b>Takeoff</b>	Dragged wing/rotor/float/other (Defining event)
<b>Takeoff</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	58, Male
<b>Airplane Rating(s):</b>	Single-engine land; Single-engine sea	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	Glider	<b>Restraint Used:</b>	3-point
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	Airplane single-engine; Instrument airplane	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 With waivers/limitations	<b>Last FAA Medical Exam:</b>	May 10, 2018
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	May 2, 2018
<b>Flight Time:</b>	(Estimated) 5500 hours (Total, all aircraft), 3400 hours (Total, this make and model), 5250 hours (Pilot In Command, all aircraft), 180 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	De Havilland	<b>Registration:</b>	N9RW
<b>Model/Series:</b>	DHC 2 MK. I(L20A) No Series	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1956	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	1095
<b>Landing Gear Type:</b>	Float	<b>Seats:</b>	8
<b>Date/Type of Last Inspection:</b>	Annual	<b>Certified Max Gross Wt.:</b>	5200 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	P&W
<b>ELT:</b>	Installed, activated, aided in locating accident	<b>Engine Model/Series:</b>	R985
<b>Registered Owner:</b>		<b>Rated Power:</b>	450 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	PAIG,90 ft msl	<b>Distance from Accident Site:</b>	25 Nautical Miles
<b>Observation Time:</b>	01:56 Local	<b>Direction from Accident Site:</b>	290°
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	Broken / 12000 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	4 knots /	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	170°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	29.72 inches Hg	<b>Temperature/Dew Point:</b>	9°C / 4°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>		<b>Type of Flight Plan Filed:</b>	Company VFR
<b>Destination:</b>		<b>Type of Clearance:</b>	Unknown
<b>Departure Time:</b>	05:00 Local	<b>Type of Airspace:</b>	Class G

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	2 Minor, 4 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 Minor, 5 None	<b>Latitude, Longitude:</b>	59.189998,-155.149993(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Benhoff, Kathryn
<b>Additional Participating Persons:</b>	Ben Herning; FAA; Anchorage, AK
<b>Original Publish Date:</b>	April 8, 2019
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=98447">https://data.nts.gov/Docket?ProjectID=98447</a>

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