



National Research
Council
Canada

Conseil National de
Recherches
Canada

Institute for Ocean
Technology

Institut des Technologies
Océaniques

Ship-Iceberg Collision Incident Report



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Vessel Characteristics

Name: Hudson	Prime Mover: Diesel Electric
Flag: Canada	Transmission: Direct
ASPPR Ice Class: Type A	Power (kW): 6469
Lloyd's Class: 100A1	# Propellers: 2
Baltic Class: Unknown	Prop. Type: Fixed Pitch (FP)
Vessel Type: Offshore Research & Survey	Service Speed: 13
Owner: Government of Canada	Stern Form:
Registered Country: St. John, Canada	Steel Grade: Unknown
Year of Manufacture: 1963	Miscellaneous Vessel Notes:
Bow Shape: Unknown	Alco 4 SA 16-cyl
Stem Angle:	
Dimensions (m):	Mass (tonnes):
Length: 85.04	Gross: 3666
Beam: 12.2	Net: 1686
Depth: 9.4	Dead:

Collision Details

Date: 11-Sep-1993	Air Temperature: 7
Visibility (nautical miles):	Water Temperature:
Visibility: Limited	Wind Speed:
Visibility - Fog: Fog	Wave Height:
Visibility - Snow: Unknown	Sea State: Calm
Visibility - Light: Daylight	
Collision Speed: 2	
Kerwin Place	Place Kerwin
P.O. Box 12093	C.P. 12093
St. John's, Newfoundland	St. John's, Terre-Neuve
A1B 3T5	A1B 3T5
Fax:(709) 772-2462	Télécopieur:(709) 772-2462



Damage Details

Damage Sustained: Yes	Damage Report No. :
Scenario: Striking concealed growler/ber	Steel Failure Type: Unknown
Severity: Hole	Size - Length (m): 4.5
Location: Hull and tanks	Size - Height (m):
Code: Plate	Damage Below WL (m):
Length of Downtime:	Damage Above WL - Height (m):
Cost of Downtime:	Damage Above WL - Length (m):
Cost to Repair:	
No. Lives Lost: 0	
No. Injuries:	Cause of Deaths/Injuries: Unknown
Cargo Loss: No	
Pollution: No	Pollution Potential: Yes

Cause of Damage:

Hit what was likely a bergy bit or growler in the head of Kangerlussuaq (=Kangerdlugssuaq) Fjord in SE Greenland just before lunch while doing oceanographic work in a position close to 68°31.23'N, 36°56'W. The vessel was somewhat blocked in at the head of the fjord as wind had shifted the ice which was about 50% cover comprised mainly of sea ice but with large ~55 m tabular icebergs. Vessel working out by nudging

Damage Description:

Navigating in ice, heard noise, discovered crack in shell plating.
http://www.bedfordbasin.ca/NewsLtrs/15_APR22/015newAPR22.html "In 1993, the Hudson ventured to Greenland for an oceanographic expedition. A decision was made to enter a fjord on the far north-eastern coast of Greenland. Multi-year ice and large icebergs were present. The vessel was badly holed in the ice leaving a 15 foot 14.5 m l gash in the starboard side just inches from the engine room. Danish Naval divers.

Ice Details

Ice Briefing Received: Unknown

Iceberg Population:

IIP Iceberg Number:

Sea Ice Concentration: 5

Position of Nearest Known Iceberg:

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Iceberg Shape: Unknown

Latitude: 0 ° ' " N

Iceberg Size: Bergy bit

Longitude: 0 ° ' " W

Length:

Date of Observation:

Width:

Iceberg Tonnage:

Route Details

Geographic Area: South Greenland Wate

Origin: Bedford, NS

Collision Latitude: 68 ° 32 ' " N

Destination: Greenland

Collision Longitude: 032 ° 31 ' " W

Distance:

Locale Accuracy: Known

Cargo at Event:

Voyage:

Displacement: 4800

Draft FWD (m): 6.8

Captain's Experience: Unknown

Radar Equipped?: Yes

Radar Details:

Decca Racal Bridgemaster - S Band

Decca Racal Bridgemaster II - Xband

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