



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: Arctic	Prime Mover: Diesel
Flag: Canada	Transmission: Unknown
ASPPR Ice Class: Unknown	Power (kW): 11014
Lloyd's Class: Unknown	# Propellers: 1
Baltic Class: Unknown	Prop. Type: Controllable Pitch (CP)
Vessel Type: Bulk Carrier	Service Speed: 16
Owner: Canarctic Shipping Co. Ltd.	Stern Form:
Registered Country: Canada	Steel Grade: Unknown
Year of Manufacture: 1978	Miscellaneous Vessel Notes:
Bow Shape: Melville Bow	Chartered to Canarctic Ltd. -Arctic Class 2 vessel -Bubbler system to assist in freeing ice.
Stem Angle:	
Dimensions (m):	
Length: 209.5	Gross: 19420
Beam: 22.86	Net: 13342
Depth: 15.24	Dead: 27557

Collision Details

Date: 17-Oct-1978	Air Temperature:
Visibility (nautical miles):	Water Temperature:
Visibility: Unknown	Wind Speed:
Visibility - Fog: Unknown	Wave Height:
Visibility - Snow: Unknown	Sea State: Unknown
Visibility - Light: Unknown	
Collision Speed: 10	
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): 2.1
Location: Bow	Size - Height (m): 0.1
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:	
No. Injuries:	Cause of Deaths/Injuries: Unknown
Cargo Loss: Unknown	
Pollution: Unknown	Pollution Potential: Unknown

Cause of Damage:

Holed while navigating through loose ice known to be littered with growlers in Baffin Bay on return voyage from Nanasivik. Had been earlier escorted through heavier ice conditions.

Damage Description:

Vessel took on list and investigation revealed that the forepeak tank, forward deep tank, No.1 starboard ballast tank and No. 1 cargo hold were flooded. Proceeded to Marmorilik for inspection, where it was found that the vessel had been holed on the starboard side between frames 175 and 192 between the 18 and 30 foot draft marks with the plating pushed in about 3 feet (~1 m) with many fractures. Internal frames, floors and stringers were also damaged. There was also a fracture on the port side about 7' (~2 m) long x 4" (10

Ice Details

Ice Briefing Received: Unknown

Iceberg Population:

IIP Iceberg Number:

Sea Ice Concentration:

Position of Nearest Known Iceberg:

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Iceberg Shape: Unknown

Latitude: 0 ' " N

Iceberg Size: Growler

Longitude: 0 ' " W

Length:

Date of Observation:

Width:

Iceberg Tonnage:

Route Details

Geographic Area: Baffin Bay Area

Origin: Nanisivik, NWT, Canada

Collision Latitude: 72 ° 08 ' " N

Destination: Antwerp, Belgium

Collision Longitude: 064 ° 25 ' " W

Distance:

Locale Accuracy: Known

Cargo at Event: Unspecified but assumed to be zinc ore from Nanisivik mines.

Voyage:

Displacement:

Draft FWD (m): 9.8

Captain's Experience: High

Radar Equipped?: Yes

Radar Details:

Sperry Mk16A, 5247, 120mi.

Sperry Mk 16A, 5253, 120mi.

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