



National Research  
Council  
Canada

Conseil National de  
Recherches  
Canada

Institute for Ocean  
Technology

Institut des Technologies  
Océaniques

## Ship-Iceberg Collision Incident Report



Page 1 of 3

### Vessel Characteristics

<b>Name:</b> William Carson	<b>Prime Mover:</b> Diesel Electric
<b>Flag:</b> Canadian	<b>Transmission:</b> Unknown
<b>ASPPR Ice Class:</b> Unknown	<b>Power (kW):</b> 7460
<b>Lloyd's Class:</b> Unknown	<b># Propellers:</b> 2
<b>Baltic Class:</b> Unknown	<b>Prop. Type:</b> Screw Propeller
<b>Vessel Type:</b> Passenger / RoRo Car Ferry - Ice St	<b>Service Speed:</b> 16
<b>Owner:</b> Canadian National Railway Company	<b>Stern Form:</b>
<b>Registered Country:</b> Canada	<b>Steel Grade:</b> Unknown
<b>Year of Manufacture:</b> 1954	<b><u>Miscellaneous Vessel Notes:</u></b>
<b>Bow Shape:</b> Unknown	--Strengthened for Navigation in Ice.
<b>Stem Angle:</b>	
<b><u>Dimensions (m):</u></b>	<b><u>Mass (tonnes):</u></b>
<b>Length:</b> 106.99	<b>Gross:</b> 8273
<b>Beam:</b> 21.24	<b>Net:</b> 4604
<b>Depth:</b> 5.887	<b>Dead:</b> 2418

### Collision Details

<b>Date:</b> 02-Jun-1977	<b>Air Temperature:</b>
<b>Visibility (nautical miles):</b>	<b>Water Temperature:</b>
<b>Visibility:</b> Limited	<b>Wind Speed:</b> 20
<b>Visibility - Fog:</b> Fog	<b>Wave Height:</b>
<b>Visibility - Snow:</b> Clear	<b>Sea State:</b> Ice covered - Moderate
<b>Visibility - Light:</b> Low light	
<b>Collision Speed:</b> 5	
Kerwin Place P.O. Box 12093 St. John's, Newfoundland A1B 3T5 Fax:(709) 772-2462	Place Kerwin C.P. 12093 St. John's, Terre-Neuve A1B 3T5 Télécopieur:(709) 772-2462



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## Damage Details

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**Damage Sustained:** Yes      **Damage Report No. :**

**Scenario:** Striking concealed growler/ber      **Steel Failure Type:** Unknown

**Severity:** Sinking      **Size - Length (m):** 1

**Location:** Bow      **Size - Height (m):**

**Code:** Hole      **Damage Below WL (m):** 0.3

**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:** 0      **Cause of Deaths/Injuries:** Unknown

**Cargo Loss:** Yes

**Pollution:** No      **Pollution Potential:** Unknown

### Cause of Damage:

Holed in heavy ice probably by bergy bit or multiyear on way from St. Anthony to Cartwright. Entered ice about 8:45 pm local on June 2. Ice conditions next morning described as 7/10ths first year ice and about 2/10ths 2nd year ice. Some icebergs and growlers were also seen on the radar, visibility being limited at that time by patches of fog. Area is outside normal limits of the IIP but icebergs had been noted in the area in the

### Damage Description:

Water detected in the Forward Motor Compartment at about 9:30 pm. The depth of water over tanks was 4 feet (1 m). Hole detected on starboard side of forward motor room about 1 foot (0.3 m) below the deck-head (about on the waterline) and it extended back from the forward bulkhead about 3 or 4 feet. Difficulty in lowering watertight doors 2 and 7, forward of that compartment, and too late to visually inspect them when indicator lights informed they were closed. Orders given to abandon ship at 9:40 pm and abandoned without

## Ice Details

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**Ice Briefing Received:** Little

**Iceberg Population:**

**IIP Iceberg Number:**

**Sea Ice Concentration:** 9

**Position of Nearest Known Iceberg:**

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Page 3 of 3

**Iceberg Shape:** Unknown

**Latitude:** 0 ° ' " N

**Iceberg Size:** Unknown

**Longitude:** 0 ° ' " W

**Length:**

**Date of Observation:**

**Width:**

**Iceberg Tonnage:**

## Route Details

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**Geographic Area:** Strait of Belle Isle and

**Origin:** St. John's, NF - St. Anthony

**Collision Latitude:** 52 ° 45 ' 05 " N

**Destination:** Cartwright, - Goose Bay, NF

**Collision Longitude:** 055 ° 20 ' " W

**Distance:**

**Locale Accuracy:** Known

**Cargo at Event:** 1000 tons of mixed cargo

**Voyage:**

**Displacement:**

**Draft FWD (m):**

**Captain's Experience:** Low

**Radar Equipped?:** Unknown

**Radar Details:**

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