



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

<b>Name:</b> Evangelia C	<b>Prime Mover:</b> Unknown
<b>Flag:</b> Greece	<b>Transmission:</b> Unknown
<b>ASPPR Ice Class:</b> Type E	<b>Power (kW):</b> 10290
<b>Lloyd's Class:</b> Unknown	<b># Propellers:</b> 1
<b>Baltic Class:</b> Unknown	<b>Prop. Type:</b> Fixed Pitch (FP)
<b>Vessel Type:</b> Bulk Carrier	<b>Service Speed:</b>
<b>Owner:</b>	<b>Stern Form:</b>
<b>Registered Country:</b>	<b>Steel Grade:</b> Unknown
<b>Year of Manufacture:</b> 1967	<b>Miscellaneous Vessel Notes:</b>
<b>Bow Shape:</b> Unknown	Built as "Polyfreedom" and renamed in 1978. Renamed "Kontiki" December 1984. Renamed "Kon Tiki" 1985. Dead 1985.
<b>Stem Angle:</b>	
<b>Dimensions (m):</b>	
<b>Length:</b> 213.37	<b>Mass (tonnes):</b>
<b>Beam:</b> 29.32	<b>Gross:</b> 29424
<b>Depth:</b>	<b>Net:</b> 18754
	<b>Dead:</b> 52402

### Collision Details

<b>Date:</b> 31-Jul-1984	<b>Air Temperature:</b> -2
<b>Visibility (nautical miles):</b> 1	<b>Water Temperature:</b>
<b>Visibility:</b> Limited	<b>Wind Speed:</b> 20
<b>Visibility - Fog:</b> Mist	<b>Wave Height:</b>
<b>Visibility - Snow:</b> Unknown	<b>Sea State:</b> Ice
<b>Visibility - Light:</b> Unknown	
<b>Collision Speed:</b> 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

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<b>Damage Sustained:</b> Yes	<b>Damage Report No. :</b>
<b>Scenario:</b> Striking concealed growler/ber	<b>Steel Failure Type:</b> Unknown
<b>Severity:</b> Unknown	<b>Size - Length (m):</b> 24.4
<b>Location:</b> Bow	<b>Size - Height (m):</b> 3.35
<b>Code:</b> Plate	<b>Damage Below WL (m):</b> 1.7
<b>Length of Downtime:</b>	<b>Damage Above WL - Height (m):</b>
<b>Cost of Downtime:</b>	<b>Damage Above WL - Length (m):</b>
<b>Cost to Repair:</b>	
<b>No. Lives Lost:</b>	
<b>No. Injuries:</b>	<b>Cause of Deaths/Injuries:</b> Unknown
<b>Cargo Loss:</b> Unknown	
<b>Pollution:</b> Unknown	<b>Pollution Potential:</b> Unknown

### Cause of Damage:

Contact with multi-year floe or bergy bit in misty conditions in heavy ice conditions in Hudson Strait. Ice chart shows 5/10ths mixture of thin first year ice mixed with old ice and the presence of icebergs. NORDREG routing ignored. ASPPR analysis reports 2/10 thick first year ice.

### Damage Description:

Forefoot severely damaged. Severe damage to hull at bottom of bulbous bow; forepeak and No. 1 tank port and starboard sides open to sea. Crack to collision bulkhead.

## Ice Details

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**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

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Geographic Area: Hudson Strait

Origin:

Collision Latitude: 61 ° 30 ' " N

Destination:

Collision Longitude: 067 ° 15 ' " W

Distance:

Locale Accuracy: Known

Cargo at Event:

### Voyage:

Displacement:

Draft FWD (m): 1.83

Captain's Experience: Unknown

Radar Equipped?: Unknown

### Radar Details:

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