



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: Cast Polarbear	Prime Mover: Diesel
Flag: Bahamas	Transmission: Unknown
ASPPR Ice Class: Unknown	Power (kW): 10142
Lloyd's Class: Unknown	# Propellers: 1
Baltic Class: Unknown	Prop. Type: Fixed Pitch (FP)
Vessel Type: Bulk Carrier	Service Speed: 14
Owner: Atlantic Conbulk Maritime Corp.	Stern Form:
Registered Country: Croatia	Steel Grade: Unknown
Year of Manufacture: 1982	Miscellaneous Vessel Notes:
Bow Shape: Bulbous	Ice Strengthened
Stem Angle:	Renamed "Orion Tecumseh" 1994.
	Renamed "Atlant I" 1995.
	Renamed "Jadran " 2001.
Dimensions (m):	Mass (tonnes):
Length: 229.5	Gross: 40258
Beam: 32.2	Net: 24271
Depth: 18.58	Dead: 70947

Collision Details

Date: 17-Apr-1993	Air Temperature:
Visibility (nautical miles):	Water Temperature:
Visibility: Limited	Wind Speed:
Visibility - Fog: Unknown	Wave Height:
Visibility - Snow: Unknown	Sea State: Unknown
Visibility - Light: Night	

Collision Speed:

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
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Damage Details

Damage Sustained: Yes	Damage Report No. :
Scenario: Unknown	Steel Failure Type: Unknown
Severity: Large hole	Size - Length (m): 45
Location: Bow	Size - Height (m): 6
Code: Unknown	Damage Below WL (m): 0
Length of Downtime: 1 month minimum.	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: Unknown	
Pollution: Unknown	Pollution Potential: Unknown

Cause of Damage:

Hit "drifting pack ice", almost certainly a small iceberg or growler since accident happened outside sea ice limits in area of bergy water (see image #3), at 0415Z, 220 miles (354 km) SE of Cape Race. No icebergs observed close to location prior to collision but vessel operating about 350 nm (~650 km) inside IIP iceberg limits.

Damage Description:

Forepeak and No. 1 hold flooded though a 150' long and 20' high (45 x 6 m) gash. Already repaired from ice damage earlier in the Gulf of St. Lawrence. New damage required 150 tons of steel as a temporary patch. A further month of repairs required in Amsterdam.

Ice Details

Ice Briefing Received: Unknown

Iceberg Population: 7

IIP Iceberg Number: 2161

Sea Ice Concentration: 0

Position of Nearest Known Iceberg:

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Iceberg Shape: Unknown

Latitude: 46 ° 37 ' 55 " N

Iceberg Size: Growler

Longitude: 046 ° 32 ' 42 " W

Length:

Date of Observation: 17-Apr-1993

Width:

Iceberg Tonnage:

Route Details

Geographic Area: Grand Banks

Origin: Antwerp

Collision Latitude: 46 ° 12 ' " N

Destination: Montreal

Collision Longitude: 046 ° 04 ' " W

Distance:

Locale Accuracy: Known

Cargo at Event:

Voyage:

Displacement:

Draft FWD (m): 13.47

Captain's Experience: Unknown

Radar Equipped?: Unknown

Radar Details:

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