



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

Name: Trave Ore	Prime Mover: Oil Engine
Flag: Republic of China (Transmission: Unknown
ASPPR Ice Class: Unknown	Power (kW): 17300
Lloyd's Class: DNV Polar 20	# Propellers: 1
Baltic Class: Unknown	Prop. Type: Fixed Pitch (FP)
Vessel Type: Bulk Carrier	Service Speed: 12
Owner: Sincere Navigation Corporation - Taipei, Taiwan	Stern Form:
Registered Country: UK	Steel Grade: Unknown
Year of Manufacture: 1972	Miscellaneous Vessel Notes:
Bow Shape: Unknown	ex. Belinda ('85)
Stem Angle:	Renamed "Grand Arc" 1993
	Strengthened for Heavy Cargoes.
Dimensions (m):	Mass (tonnes):
Length: 260.604	Gross: 48179
Beam: 40.735	Net: 37526
Depth: 20.12	Dead: 108198

Collision Details

Date: 06-Jul-1989	Air Temperature:
Visibility (nautical miles): 0	Water Temperature:
Visibility: Poor	Wind Speed: 19
Visibility - Fog: Thick fog	Wave Height: 2
Visibility - Snow: Unknown	Sea State: Rough
Visibility - Light: Daylight	
Collision Speed: 12	
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. : 536
Scenario: Unknown	Steel Failure Type: Unknown
Severity: Crushed	Size - Length (m):
Location: Bow	Size - Height (m):
Code: Plate	Damage Below WL (m):
Length of Downtime: Approx. 3.5 months	Damage Above WL - Height (m):
Cost of Downtime:	Damage Above WL - Length (m):
Cost to Repair: 4000000	
No. Lives Lost:	
No. Injuries:	Cause of Deaths/Injuries: Unknown
Cargo Loss: Unknown	
Pollution: Unknown	Pollution Potential: Unknown

Cause of Damage:

Whilst steaming at nearly 12 knots, 158 miles E of Belle Isle, in dense fog, struck a bergy bit about 3 m. high at 5:40 a.m. Good ice forewarning had been received. Only 1 radar was working and no dedicated look-out posted. Vessel operating outside normal IIP observation limits but well inside iceberg danger zone.

Damage Description:

Damage to the bow, flooding in three compartments. The forepeak tank, No. 1 port wing and No. 1 cargo hold flooded and the shell plating on both sides of the bow was heavily set in. The bulbous bow structure below the waterline was holed, twisted, torn and peeled back. Decks and bulkheads 30' (9 m) aft of the stem and 80' (24 m) athwartship were buckled, creased and distorted. The vessel was not stopped and continued for over 2 hours before stopping. Went to Corner Brook, Halifax and Quebec City for repairs and finally

Ice Details

Ice Briefing Received: Good Forewarning

Iceberg Population:

IIP Iceberg Number:

Sea Ice Concentration: 0

Position of Nearest Known Iceberg:

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



Ship-Iceberg Collision Incident Report



Page 3 of 3

Iceberg Shape: Unknown

Latitude: 0 ° ' " N

Iceberg Size: Bergy bit

Longitude: 0 ° ' " W

Length:

Date of Observation:

Width:

Iceberg Tonnage: 1500

Route Details

Geographic Area: Strait of Belle Isle and

Origin: Port Cartier, Quebec

Collision Latitude: 52 ° 27 ' " N

Destination: Hamburg, West Germany

Collision Longitude: 051 ° 13 ' " W

Distance:

Locale Accuracy: Known

Cargo at Event: 98838 tons of iron ore concentrate

Voyage:

Displacement: 156709

Draft FWD (m): 13.87

Captain's Experience: High

Radar Equipped?: Yes

Radar Details:

Raytheon (10 cm)

Raytheon (3 cm)

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