Model 386

Model Identification Number: IMD 386
Manufacturer: Institute for Marine Dynamics.
Model Description: Supply Boat model.

Scale 1:40
All particulars are given in prototype scale, displacement in salt water.

LOA	85.00 m	
LBP	75.00 m	
Breath	18.5 m	
Draft	7.50 m	
Disp.	6630 t	
LCG fwd of midships	-0.23 m	Load waterline parallel to the design waterline
KG	7.29 m	
GMT	2.64 m	
Roll gyradius about CG	7.38 m	
Pitch and yaw gyradii about CG	20.16 m	

Model Identification Number: IMD M 473 T
Manufacturer: Institute for Marine Dynamics.
Model Description: Tug model used for testing Integrated Tug Barge Combination.

Principal Particulars, Metric Full Scale for loaded condition:

Model Scale: 1:22
Length Overall LOA 45.01m
Length on the Water Line LWL 45.01m
Beam B 12.20m
Draught T 5.49m
Underwater Volume 1473.98m^3
Wetted Surface Area 744.62 m^2
Block Coefficient Cb 0.456

Model Identification: CCGS Sir John Franklin.
Model Description: R Class Icebreaker.
Research Description: Ice Trials, and Bending moment investigation.

Principal Particulars:

Model Scale:	Not given. See note 1 below
Length Between Perpendiculars LBP	87.9m
Length on the Water Line LWL	92.31m
Waterline Beam at Midships	19.10m
Maximum Waterline Beam	19.11m
Draught at Midships T	7.07m
Draught at maximum section	7.10m
Draught Maximum	7.24m
Underwater Volume	7601.86m^3
Displacement	7799.00t
Wetted Surface Area	2107.21m^2

Hydrostatic Data

Centre of Buoyancy, FWD of Midships LCB	-0.94m
Centre of Buoyancy above datum VCB	3.96m See note 2 below
Centre of Floatation, FWD of Midships LCF	-1.11m
Centre of Floatation Above Datum	7.07m See Note 2 below
Waterplane Area	1405.97 m^2
Transverse Metacentric Radius BM	4.68m

Longitudinal Metacentric Radius BML   **92.01m**
Centre of Area of Profile Plane FWD of Midships CLR **-1.33m**
Centre of Area of Profile Plane Above Datum   **3.65m See Note 2 below**
Area of Profile Plane   **566.41 m^2**

Notes:
  1. **Scale not provided. Due to modifications to model, scale cannot be accurately calculated.**
  2. **Datum assumed to be baseline.**