Oceanic Research Vessel : Coriolis II

REFORMAR

General		Machinery	
Name / Flag :	Coriolis II / Canada	Main Engines :	4 x Deutz SBV6M 628
Official Number :	813736	Power :	3,530 kW / 4,730 BHP
Port of Registry :	Québec (Canada)	Auxiliary :	3 x Caterpillar 3406C
Operator :	Reformar Inc	Kilowatt :	3 x 250 kW
Classification Society IMO Number :	Bureau Veritas 8818570	Emergency Generator :	1 x Mitsubishi 6D14T 80 kW 600V Self Starting unit
Solas / ISM / ISPS Compliant :	Yes	Bow Thruster :	Ulstein Marine 500 TT — 298 kW
Certification :	Unlimited Voyage	Propulsion :	2 x Kamewa CPP 2.5 m in diam.
Call sign :	CGDN	Rudders :	Twin
Gross Tonnage :	836 Tonnes	Fuel Capacity :	145 m^3 @ 95% capacity
Net/Register Tonnage :	250 Tonnes	Potable Water Tank:	18.2 m^3
Dead Weight :	290	Non-Potable Water Tank :	1.5 m^3
Type :	Oceanographic Research Vessel	Water Maker :	1 x Reverse Osmosis
Builder :	Versatile Pacific Shipyard (Canada)	Daily Production :	10,000 litres/day
Year :	1990	Hydraulic Units :	3 power packs, 15 GPM, 3000 psi
LOA :	49.95m		2 power packs Flow 60 GPM, 2000 psi
Beam :	11.00m		

Draft :	5.50m

Navigation Equipment.		Accommodation	
Radio :	Full GMDSS	Capacity :	28 people
Radar :	2 x Furuno X & S band (ARPA)	Crew :	Between 10 to 14
Electronic Charts :	Navi-Sailor 4000	Guests :	Between 10 to 14
Echo Sounder :	1 x Skipper GDS 101 (50 Khz) 1 x Datamarine Int'l Offshore System 3000	Laboratories :	1 x Dry Lab, 19.5 m^2 1 x Wet Lab, 23.3 m^2
Gyrocompass:	1 x Yokogawa CMZ900 Type S		1 x Deck operation control Centre, 4 m^2
Automatic Pilot:	1 x EMRI	Cargo Hold:	1 x 26.25 m^3
Doppler Log :	1 x Sperry SRD-331	TV Lounge :	1
GPS :	2 x Furuno GP-170	Cafeteria :	1
		Air Conditioning :	Yes
Navtex :	JRC	Satellite TV :	Yes
CCTV Camera :	Yes, with full coverage of back deck area	E-mail, voice, internet :	Yes, Starlink Maritime and KVH V7-HTS with CommBox network services
DP System :	Kongsberg C-Pos		

Winches
1 x Hawboldt Oceanographic Research Winch, 5 t capacity, 3,000 m of galvanized cable (3/4''), possibility of various types of cables.
1 x Hawboldt winch with Capstan, 2 t capacity (currently no cable or rope on winch).
1 x J.P. Oceanographic Winch, 499 kg capacity, 1,300 m of Dyneema rope (3/16'').
1 x J.P. Oceanographic Winch, 3 t capacity, 1,500 m of Dyneema rope (1/2'').
2 x DT 210 Marine Winch, 545 kg bare drum capacity, possibility of various types of cables.
1 x DT 3020 Marine Winch, 1,450 kg bare drum capacity, possibility of various types of cables.
1 x DT 3025 Marine Winch, 1,800 kg bare drum capacity, possibility of various types of cables.

Lifting Appliances

1 x Palfinger PK50002M crane—SWL: 2 t at 11.9 m extension, located on aft deck portside.
2 x DMW M40 cranes—SWL: 480 kg at 6 m extension, located on the main deck, port and starboard sides aft.
Aft A-Frame, 9 t capacity, clearance from transom stern 2.5 m, inside breadth 5.18 m and headroom 6.4m
Port Side A-Frame, 2 t capacity, inside breadth 2.5 m and headroom 6 m

Others

- Kongsberg Hugin AUV with dedicated LARS.
- Kongsberg Multibeam Echo Sounders EM2040 MKII
- Kongsberg Multibeam Echo Sounders EM304 MKII
- 3 x Split beam Transducers, Simrad EK80 38 kHz, 120 kHz and 200 kHz
- 2 x fixed ADCP Transducers (Acoustic Doppler Current Profiler), make RDI model OS75VM and model OS150VM
- Hull-mounted Edgetech transducer. X-Star Sub-Bottom Profiler System, KT-216 H
- Acoustic wells 12”, 16” and 20” in diameter with Traveocean fitting arrangement
- 2 x Sea-Bird Scientific Carousel Water Sampler SBE 31, 12 x Ocean Test 12 litres PVC bottles CTD model SBE 9+
- 9 m gravity piston coring system
- 2 x Scientific Freezers of 0.4 m^3 (–40 up to –80 °C)
- 1 x cargo hold: 26.25 m^3, headroom 2 m, hatch 1.82 m x 2.44 m
- Over the side pole for multi-beam or USBL deployment.
- Permanently installed POSMV inertial station
- Scientific container module (14.8 m^2)
Note: Other survey equipment available upon request: www.reformar.ca