

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 2.5m 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 Shipyards (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, KVH V7-HTS with CommBox network services
DP System :	Kongsberg C-Pos		

Winches

1 x Hawboldt Oceanographic Research Winch, capacity 5 tonnes, 3,000 m of galvanized cable (3/4"), possibility of various types of cables.

1 x Hawboldt winch with Capstan, capacity 2 tonnes (currently no cable or rope on winch).

1 x J.P. Oceanographic Winch, capacity 499 kg, 1,300 meters of Dyneema rope (3/16").

1 x J.P. Oceanographic Winch, capacity of 3 tonnes, 1,500 meters of Dyneema rope (1/2").

2 x DT 210 Marine Winch, capacity bare drum 545 kg, possibility of various types of cables.

1 x DT 3020 Marine Winch, capacity bare drum 1,450 kg, possibility of various types of cables.

1 x DT 3025 Marine Winch, capacity bare drum 1,800 kg, possibility of various types of cables.

Lifting Appliances

1 x Palfinger PK50002M crane - SWL: 2 tonnes at 11.9 meters extension, located on aft deck portside.

2 x DMW M40 crane's - SWL: 480 kg at 6 meters extension, located on the main deck, port and starboard sides aft.

Aft A-Frame, capacity 9 tonnes, clearance from transom stern 2,5 m, inside breadth 5,18 m and head room 6,4 m

Port Side A-Frame, capacity 2 tonnes, inside breadth 2,5 m and head room 6 m

Others

- Kongsberg Hugin AUV with dedicated LARS.

- Kongsberg Multibeam Echo Sounders EM 2040 MKII (upgraded feb. 2021)

- Kongsberg Multibeam Echo Sounders EM 302 (EM 304 MKII upgrade scheduled for dec. 2023)

- 3 x Split beam Transducers, Simrad EK 60 MK1 38 kHz, 120 kHz and 200 kHz

- 2 x fixed ADCP Transducer's (Acoustic Doppler Current Profiler), make RDI model OS75VM and model OS150VM

- Hull Edgetech Mount 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 Electronics Carousel Water Sampler SBE 31, 12 x Ocean Test 12 litres PVC bottles CTD model SBE 9+

- 9 metres gravity piston coring system

- 2 x Scientific Freezers of 0.4 m³ (- 40 up to - 80 deg C)

- 1 x cargo hold: 26,25 m³ headroom 2 m, hatch 1,82 m x 2,44 m

- Over the side pole for multi-beam or USBL deployment.

- Applanix POS MV M5 Inertial Station

- Scientific container module (14.8 m²)

Note: Other survey equipment available upon request : www.reformar.ca