



## FRS 'ALGOA'

# Steel hulled Fisheries Research Ship

**Converted French Wetfish Stern Trawler** 

52.55m

10.8m

3.75m

759.38T

227.81T

1472 kW

**MAIN DIMENSIONS** 

Length OA

Breadth

Draft

**GRT** 

**NRT** 

Power

#### **SPECIFICATIONS**

Classification Bureau Veritas Built 1975

Builders Atliers et Chantiers (France) (Converted by Dorbyl Marine, Cape Town 1993)

Flag South Africa
Port of Registry Cape Town
IMO Number 7410369
Call Sign ZR 4311
Official Number 19112

Cruising speed 10.0 knots Maximum speed 12.5 knots

Range 6000 nautical miles Endurance 20 – 30 days

Compliment Crew 19, Scientists 16

Affiliation Department of Environmental Affairs, Republic of South Africa

Directorate Marine Research

## **PROPULSION**

Single Crepelle SN, turbo charged and intercooled 12 cylinder 4 stroke diesel engine driving an Eyscher Weiss controllable pitch propeller.

Maximum Power 1472 kW @ 200HP

Bowthruster Schottel SRP 170 LSV, 280 kW retractable

Bunker Capacity 1387

## **ELECTRICAL POWER**

Two M.A.N. diesel genets, each 280 kVA, 380/220 v, 3 phase, 50 Hz at 0.8 PF. Shaft generator Stabilised Supply



#### **NAVIGATION EQUIPMENT**

SIMRAD RGC 50 Gyro Compass Magnetic Compass Cassens and Plath Autopilot SIMRAD AP-50 Radar

FURUNO FR-2125 3cm

Furuno NAVNET 10cm

Speed Log Furuno DS-70

Echo Sounder SKIPPER GDS 101-50kHz transducer (1000m depth) SIMRAD EK60 – 38 kHz transducer (5000m depth)

**GPS** 2xLeica MX-412 DGPS

Navtex Furuno NX-500 SIMRAD Is-12 Anemometer

Young Wind Tracker

Seacat Thermosalinograph Sea Surface Temp

Electronic Charts **MAXSEA Charts** AIS Furuno FA-100

**Direction Finder** 1 x VHF, type Regency

(Multi directional on all channels)

#### **METEOROLOGICAL EQUIPMENT**

Weatherpak by Coastal Environmental System, giving wind direction and speed (relative and true), air temperature, relative humidity, barometric pressure and biospherical QSR2100 PAR sensor for underway light data.

All meteorological data is networked over the NDS as well as, the Seabird SBE 45 Thermosalinograph with SBE 38 remote temperature probe, water depth and vessel navigation information.

### **COMMUNICATIONS AND GMDSS**

- Sailor VHF (RT 2048)
- Sailor VHF DSC (RM 2042)
- Sailor SSB (RE 2100)
- Sailor HF SSB Receiver (RM 2125)
- Sailor Sat C Msg Terminal (H 2098)
- Sailor Sat C Transceiver (H 2095)
- Sailor Sat C Printer (H1252B)
- Sailor HF SSB Telex/DSC (RM 2151)
- Thrane and Thrane Fleet 77 Satellite connection (Voice and Data)

#### WINCHES AND DAVITS

**Anchor Windlass** GHM Marine, Guindeau 24, electric

Mooring Winches 1x port aft, 1x starboard aft, electric (SWL = 0.5T) PETREL, hydraulic knuckle boom crane KC-40-8.4-3.6. **Deck Crane** 

(SWL: at 6.5m = 6.0T; at 8.4m = 3.6T)

Winch Capacity 40m x 20mm IWRC galvanized rope, with a 7.5T SWL Sling hook.

Rescue Davit Rescue boat davit, manual slew, electric hoist. (SWL = 1t)

Winch Capacity 20m x 10mm IWRC Galvanized rope, with a 1.0T SWL off load quick

release hook.

Main trawl winch Brissoneau and Lotz, electric. (SWL = 5.0T). Warp capacity 3500m x26mm. 4

auxiliary drums

Net Drum Winch Gear driven from main trawl winch. (SWL = 5.0T)

Net Sonde Winch Atlas, electric

Hydrographic Winch LEBUS, medium pressure, hydraulic. (SWL = 1.0T)

Drum capacity 2000m x 9.5mm, 4-core conductor cable, via accumulator system to

hydraulic A-frame, midships

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Vertical Plankton Winch LEBUS, medium pressure, hydraulic. (SWL = 1.0T) Drum capacity 1500m x 9.5mm,

4-core conductor cable, Via accumulator system to hydraulic A-Frame, midships. PETREL, medium pressure, hydraulic drum capacity 500m x 11.76mm, 10-core

conductor cable. Fair lead direct to main gantry aft. (Not onboard)

Small Towing Winch PETREL, medium pressure, hydraulic. (SWL – 1.0T). Drum capacity 1000m x9.5mm,

four core conductor cable. Cable lead to hydraulically slewed davit and

accumulator on starboard aft gantry platform.

#### LABORATORIES AND SCIENTIFIC SPACES

Bridge deck, starboard aft

Acoustics laboratory

Main deck, port side, midships Operations room

Main deck starboard Wet Laboratory - General purpose

Main deck, port Dry Laboratory – Chemical

Lower deck, aft
Lower deck, aft
Tank top, midships
Tank top, forward of computer room

Vet fish laboratory
Dry fish laboratory
Computer room
Sonar compartment

#### **SCIENTIFIC WORKING AREAS**

Large Towing Winch

Forecastle deck and main trawl deck.

Trawl ramp can be decked or open ramp, provided ample request time is given.

## ON BOARD SCIENTIFIC SYSTEMS

The windows based underway data acquisition and distribution system on the NDS is interfaced to a variety of navigational, meteorological and winch systems, displaying these data on terminals housed in all scientific spaces.

The Local Area Network (LAN) facilitates interaction between the various spaces and the NDS and permits the storing and processing of time and historical data at each work station.

Seabird 911 plus CTD, with 12L rosette and 3rd party sensors. Seabird SBE 45 Thermosalinograph with SBE 38 remote temperature probe.

Ocean Surveyor SDCP 75 kHz by RD Instruments.

MCM Universal Underwater Unit.

MCM Electronic Dish measuring boards

## **HABITABILITY**

The officers, fishing master, bosun, chief steward and chef are accommodated in single berth cabins and there are six double berth crew cabins.

Scientists are accommodated in four three berth cabins and two double berth cabins.

Officers & Crew = 19 berths

Scientists = 16 berths

Meals are served in a saloon area. The vessel carries bottled water for all to enjoy.

**UPDATED AS AT 1 DECEMBER 2016**