



M/V Sunny Lady

Offshore equipment

MBES

Bathymetry, backscatter and water column data

- Kongsberg EM2040 MKIIz



Features:

- 200-400 kHz wide frequency range
- Seabed image
- Water column display and logging for SIS users
- FM chirp
- Roll, pitch and yaw stabilisation
- Short pulse lengths, large bandwidth
- Transmit and receive nearfield focusing
- Depth rated to 6000 m

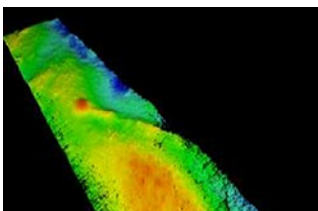
Options:

- Dual swath
- 600 kHz and 700 kHz modes
- EM® MultiFrequency Mode
- Water column display and logging
- Water column phase logging
- Extra detections
- Dual RX
- Dual TX

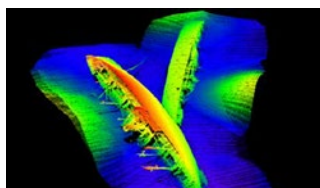


Alternative Multibeam Echosounder systems are available depending on specification and clients requirements. These can be easily installed to the vessels drop-down keel which avoids the need to dry dock during sensor installation.

- Norbit Winghead dual head multibeam Echosounder



- R2Sonic 2024 Multibeam Echosounder



M/V Sunny Lady Capabilities

The **M/V Sunny Lady** is equipped to offer robust geophysical site investigation survey services.

Shallow- & deep-water operations;

- MBES / MBES backscatter/water column data
- Sub Bottom Profiler
- Side Scan Sonar
- Magnetometer
- UHRS Sparker
- Starlink communication platform
- HiPAP positioning system
- Drop-down keel



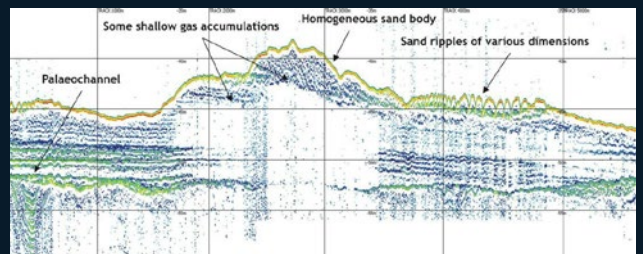
SBP

Shallow subsurface: geohazard detection, ground modelling

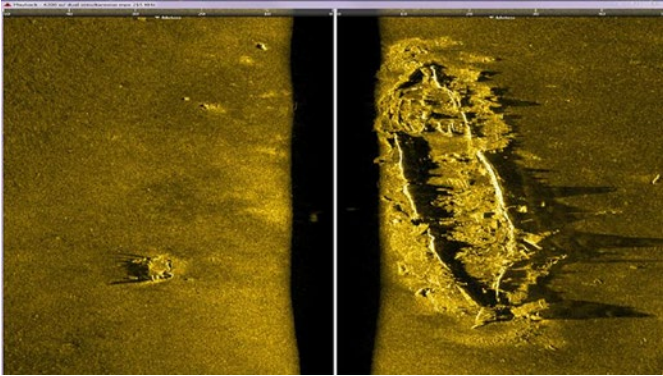
- Innomar Medium 100

Main characteristics

- SBP Frequency: 100kHz primary, 4-15kHz secondary
- Penetration: 10-15m depending on geology
- Vertical resolution : 0.25m
- Acquisition software: Innomar



Offshore equipment



Side Scan Sonar & Magnetometer options

Geomorphology, habitat/sediment mapping, pUXO detection

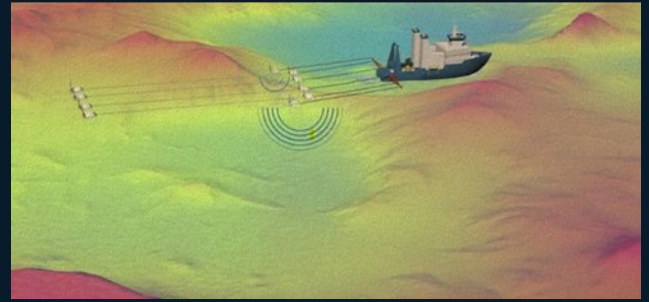
- Edgetech 4205 120/410/850kHz system



- Klein 5000 V2 system



- Geometrics G882 (towed behind Edgetech SSS tow fish or towed independently as transverse gradiometer system)



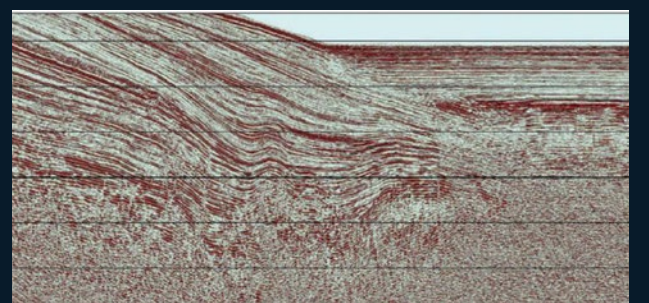
UHSR

Deep subsurface: geohazard detection, ground modelling

- Variety of sound source(s) with positioning system LH-16



Marine Digital Streamer(s)



M/V Sunny Lady – Vessel Specifications

VESSEL IDENTIFICATIONS

Year built	2022
Type	Geotechnical survey vessel
Ship owner	Teige Rederi AS
Shipyard	Cemre
Flag	Norway
Class	DNVGL
Class notation	1A ICE-1B TMON Fishing Vessel (s) Battery(Safety) Gas fuelled

MAIN CHARACTERISTICS

LOA	86,50 m
LPP	77,20 m
Breadth (moulded)	17,80 / 18,0 m
Depth main deck	10,20 m

DECK EQUIPMENT - Mac Gregor/Triplex/Rapp

Trawl Winches	2 x 80 t
Net Drums	2 x 68,5 t – 37 m³
Tailed Winch	1 x 50 t
Purse seine Winch	2 x 37 t
End Wire Winch	1 x 11 t
Breast-line Winch	1 x 16 t
Float Line Winch	1 x 11 t
Cork Line Stacker	Yes
Sink Line Stacker	Yes
Fish Pump Crane	13 m – 2 t
Netstacker crane	14,4 m – 4,5 t
Forward Deck Crane	17,5 m – 3 t
Forward Deck Crane	15 m – 4 t

ACCOMMODATION

Cabins for	26 persons
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PERFORMANCE & CAPACITIES

Speed	16,5 kn
Deadweight at SWL	4360 t
RSW hold tanks	2800 m³
Fuel Oil	530 m³
Tech. Fresh water	120 m³
Fresh water	85 m³
LNG tank	350 m³

MACHINERY

Main Engines	Wärtsilä 10V31DF 5500kW – 750RPM
Shaft Generator	3000 ekW
Reduction Gear	6000 kW PTO 3000 kW PTI 1500kW
Propeller Plant	4200 mm
Propeller Nozzle	AHT 0,4
Aux Engine	Wärtsilä 9L20DF – 1665 kW – 1200 rpm
Emergency Generator	130 kW – 1800 RPM
Tunnel Thruster (Fwd)	1400 kW
Tunnel Thruster (Aft)	1400 kW
Rudder	High Lift Flap
Steering Gear	1 x electro – hydraulic driven
Battery	1024 kWh Corvus

