

APPENDIX IX

R/V L. M. GOULD (ARSV) - SPECIFICATIONS

PARTICULARS

CLASS

ABS Star A- I Unrestricted Ocean Service
ABS Ice Class A1
ABS Circle E
USCG Subchapter U (Oceanographic Research Vessel)
USCG Minimally Manned Engine Room
i.a.w. Solas '93
i.a.w. Marpol '73/78/92'

DIMENSIONS

LOA 230'-0' (70.1m)
LWL @ 17'-0" Draft 202'-6' (61.72m)
Breadth 46'-0' (14.02m)
Depth 25'-9' (7.85m)
Draft (min. operation) 15'-0' (4.57m)
Draft (normal operational) 17'-0' (5.18m)
Draft (Load Line) 18'-0' (5.49m)
Freeboard @ nor. opr. draft 8.75' (2.67m)
Gross Tonnage 1599
Displ. @ nor. opr. Draft 3117 l.tons

DEADWEIGHT

Deadweight @ min. draft 620 l. tons.
Deadweight @ norm. opr. draft 1089 l. tons.

PROPULSION MACHINERY

2 x 3606 Cat Diesels
5,400 BHP @ 1000 rpm
2 Reduction Gears

PROPELLERS

2 x 3200 mm dia. C.P. in nozzles

THRUSTERS

1 x 500 hp CP Tunnel

RUDDERS

2 Spade Type-Independent Operation

GENERATORS

Diesel Generators - 3 x 500 kW

Emergency Generator - 1 x 300 kW

SHIP MOTIONS

2 Passive Type Anti-Roll Tanks

ACCOMMODATIONS

4 x 1 man

16 x 2 man

2 x 4 man

44 total

All cabins with separate head.

2 Berth Hospital Space

LABORATORY SPACES

Wet Lab - 425 ft²

Hydro Lab - 436 ft² w/ floating floor

Dry Lab - 356 ft² w/floating floor

Electronics Lab - 420 ft² w/floating floor

Aquarium Room - 6 tanks

Oceanographic Staging Hanger - 440 ft²

STORAGE SPACES

SCIENCE STORE

1 x 5700 ft³

1 x 15,500 ft³

SPARE PARTS

1 x 500 ft³

DRY PROVISIONS

2 x 3500 ft³

1 x 3800 ft³

COOLER

1 x 1600 ft³

FREEZER

1 x 1600 ft³

LIFE SAVING

2 x 6.0m Rigid Hull Inflatable Boats

2 x 44 Man. Life Boats (1 fitted as Rescue Boat)

2 x 25 man. Inflatable Life Rafts
Other Gear as reqd. by USCG/SOLAS

CONTROLS

Machinery from both ends of wheelhouse
Machinery from Conning Station
Machinery and propulsion from Aft Control Station

DECK EQUIPMENT

CRANES

1x Cargo Crane-24 s.tons. @ 26'/13 s.tons. @ 49'
1x Auxiliary Aft Deck Crane - Knuckle boom - 5 l. .tons @ 10'
Telescoping boom in staging Hanger- 5 ton swivel

A-FRAMES

1 x 11 l.ton. stern A-Frame
1 x 5 l.ton. side A-Frame

ANCHOR WINDLASS

Double Wildcat - 15 ton

Oceanographic Winches (GFE)

1 x DUSH 4
1 x DUSH 5
1 x DESH 6

This Appendix also includes an Outboard Profile of the R/V L.M. GOULD and a table that compares different parameters of the NATHANIEL B. PALMER, POLAR DUKE, and POLAR DUKE replacement. Both items are available from the UNOLS Office.