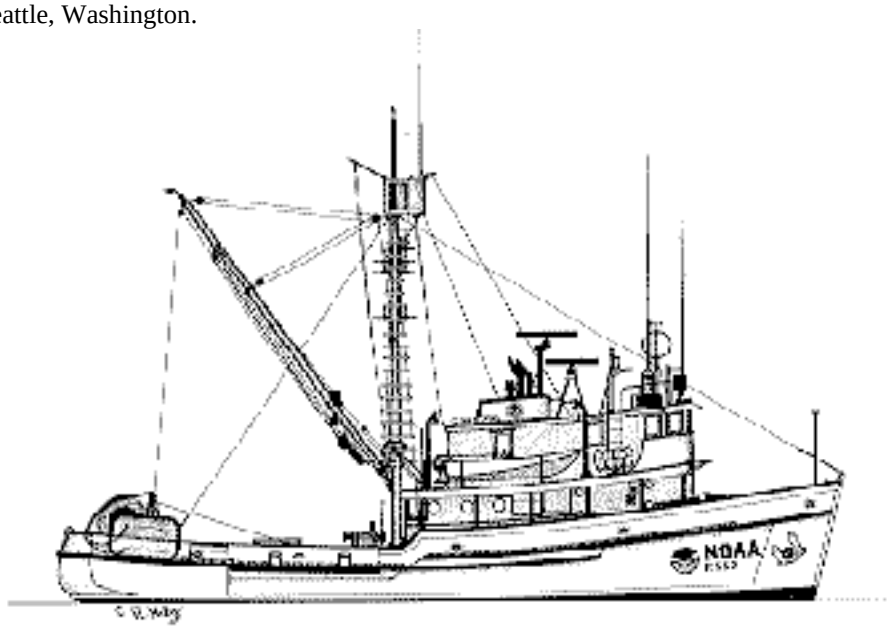
JOHN N. COBB

JOHN N. COBB is NOAA's oldest research ship. It was built in 1950 with a wooden hull, along the lines of Pacific trawler designs of that time. The ship is named after John N. Cobb, an early fisheries researcher and the first dean of the University Of Washington School Of Fisheries.
JOHN N. COBB is capable of conducting bottom trawls down to depths of over 300 fathoms (1,800 ft.) as well as surface trawling, longlining and crabbing. Marine mammal surveys of whales, porpoise, and seals are also conducted aboard by scientists from the National Marine Mammal Laboratory in Seattle, Washington. Her homeport is at the Marine Operations Center, Pacific, in Seattle, Washington.



Line Drawing by Bob Hitz

Design

- Designer: W.C. Nickum and Sons
- Builder: Western Boatbuilding Company , Tacoma, WA
- Launched: January 16, 1950
- Delivered: February 13, 1950
- Commissioned: February 18, 1950 (by US Fish and Wildlife Service)
- Transferred to NOAA: July 1, 1972
- Hull Number: R552
- Call Letters: WMVC
- Home Port: Seattle, Washington
- Length (LOA): 28.3 m (93 ft.)
- Breadth (moulded): 7.9 m (26 ft.)
- Draft, Maximum: 3.4 m (11.0 ft.)
- Hull: Wood
- Displacement: 250 tons
- Gross Tonnage: 185 tons
- Net Tonnage: 78 tons

Speed & Endurance

- Cruising Speed: 10 knots
- Range: 2,850 nmi
- Endurance: 13 days
- Endurance Constraint: Fuel

Complement

- Commissioned Officers: 2
- Crew: 4
- Licensed Engineers: 2
- Scientists: 4

Food Service Seating Capacity

- General Mess: 8

Berthing Capacity

- Double Staterooms: 4
- Forecastle Bunks: 5
- Total Bunks: 13

Medical Facilities

- Emergency and first aid equipment aboard, administered by trained vessel personnel.

Scientific Laboratory Facilities

- General lab: 150 sq. ft.

Winches

- Trawl Winch (Double Drum)
  - Quantity: 1
  - Manufacturer: Rowe
  - Drive: Hydraulic
  - Maximum Pull: 14,000 lbs.
  - Drum Capacity:
    - 4,800 ft. of 9/16 in. wire rope, or
    - 7,200 ft. of 1/2 in. wire rope
- Net Reel Winch
  - Quantity: 1
  - Drive: Hydraulic
- Oceanographic Winch
  - Quantity: 1
  - Drum Capacity: 6,000 ft. of 3/16 in. wire rope
- Miscellaneous
  - Pot Hauler
  - Line Coiler
  - Automated Long Line Coiler

Cranes and Booms

- Fixed Length Boom
  - Quantity: 1
  - Boom Length: 30 ft.
  - Lifting Capacity: 4,800 lbs.
  - Location: Aft

Ground Tackle

- Bower Anchor
  - Quantity: 2
  - Type: Stockless
  - Weight: 800 lbs. (Port), 1,000 (Starboard)
- Anchor Chain
  - Quantity: 2
  - Size and Type: 5/8 in. stud link chain and 7/8 in. steel cable
  - Port Anchor: 1 shot of chain and 135 fm. of cable
  - Starboard Anchor: 11 shots of chain

Boat

- Quantity: 1
- Type: Fiberglass Open Boat
- Manufacturer: Boston Whaler
- Length: 17 ft.
- Propulsion: Gasoline Outboard, 70 hp

Engineering

General

- Cruising Speed: 10 knots
- Range: 2,850 nmi.
- Power: 325 SHP
- Fuel Capacity: 8,000 gal.
- Fuel Consumption: 25 gal/hr
- Fuel Type: #2 Diesel
- Endurance: 13 days
- Endurance Constraint: Fuel

Propulsion Plant

- Main Engine
  - Quantity: 1
  - Type: Diesel (Direct Reversing)
  - Manufacturer: Fairbanks Morse
  - Rated power: 325 HP
- Propeller
  - Quantity: 1
  - Size: 5.0 ft. diameter
  - Blades: 3, Fixed Pitch

Freshwater System

- Storage capacity: 6,000 gal.
- Normal consumption: 500 gal/day
- Desalinator
  - Type: Reverse Osmosis
  - Manufacturer: Village Marine Tech
  - Normal Production: 400 gal/day

Pollution Control

- Sewage Waste Control
  - Type: Holding tank
  - Holding capacity: 2,200 gal.
- Oily Waste Control
  - Type: Oily Water Separator
  - Manufacturer: SRS
  - Holding Capacity: 200 gal.

Electrical System

- Ship Service Generators
  - Quantity: 2
  - Type: Diesel
  - Manufacturer: GM/Elec. Machine
  - Rated Power (each): 30 kW
  - Output Voltage: 240 VAC, 60 Hz, 3ø
- Emergency Generator
  - Manufacturer: Honda
  - Rated Power: 500 W
  - Output Voltage: 110 VAC, 60 Hz, 1ø
- Electrical Service
  - 240 VAC, 60 Hz, 3ø
  - 220 VAC, 60 Hz, 1ø
  - 110 VAC, 60 Hz, 1ø
- Power isolation protection for scientific equipment.

Communications

- VHF/FM Transceivers (2)
- HF Marine Band Transceivers (2)
- Cellular Telephone
- INMARSAT Mini-M Radio Transceiver
- INMARSAT Standard C Radio Transceiver
- WaveTalk Satcom Tranceiver
- Emergency Position Indicator Radio Beacons (Class 1 and Mini-B)
- Search and Rescue Transponder (X-Band Radar Frequency)
- AIS
- E-mail (JOHN N. COBB's E-mail address is NOAA.Ship.Cobb@noaa.gov

Acoustics

- Shallow Water Echo Sounder
- Color Sounder
- Forward Looking Sonar
- Fish Finder
- Net Sonde

Navigation

- X-Band Radar (2)
- GPS Receiver
- Gyrocompass
- Autopilot

Computer

- one IBM Compatible connected to GPS