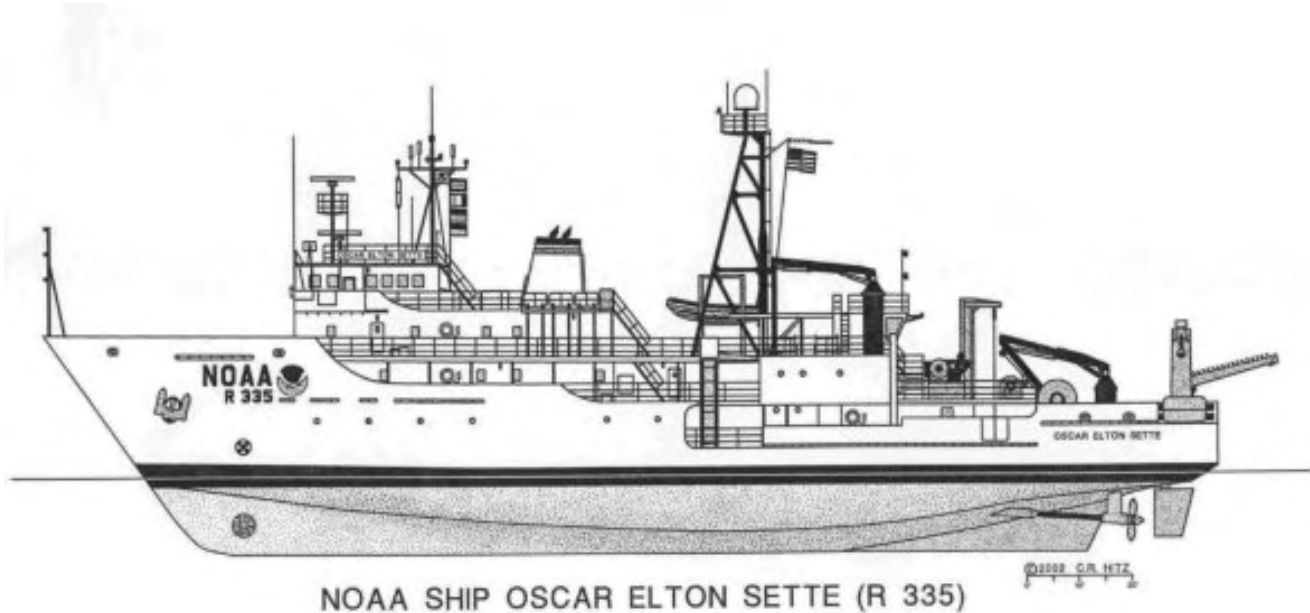


OSCAR ELTON SETTE

NOAA Ship OSCAR ELTON SETTE is named for Dr. Oscar Elton Sette. Dr. Sette was a pioneer in the development of fisheries oceanography and according to many fisheries scientists, is the father of modern fisheries oceanography in the U.S. He is recognized both nationally and internationally for many significant contributions to marine fisheries research. **OSCAR ELTON SETTE** replaces the **TOWNSEND CROMWELL**.



Line Drawing by Bob Hitz

Design

- Builder: Halter Marine, Inc., Moss Point, Mississippi
- Delivered to MSC: 1988
- Transferred to NOAA: June 5, 1992
- Commissioned by NOAA: January 23, 2003
- Hull Number: R335
- Call Letters: WTEE
- Home Port: Honolulu, Hawaii
- Length (LOA): 68.3 m (224 ft)
- Breadth (moulded): 13.1 m (43 ft.)
- Draft, Maximum: 4.6 m (15 ft.)
- Displacement: 2,301 tons
- Gross Tonnage: 2,014
- Net Tonnage: 604

Speed & Endurance

- Cruising Speed: 10.5 knots
 - Range: 5,500 nmi
 - Endurance: 30 days
 - Endurance Constraint: Stability
-

Complement

- Commissioned Officers: 4
 - USPHS Medical Officer: 1
 - Licensed Engineers: 3
 - Crew: 13
 - Scientists: 12 (Max)
-

Food Service Seating Capacity

- Mess Room: 26

Berthing Capacity

- Single Staterooms: 13
- Double Staterooms: 10
- Bunkhouse: 6 Berths
- Total Bunks: 39

Medical Facilities

- Medical Treatment Room with one bunk.
 - Emergency and first-aid equipment aboard, administered by designated USPHS Medical Officer.
-

Winches

- Oceanographic Winch
 - Location: Port
 - Manufacturer: Markey Dersh 3
 - Type: Hydraulic Drive
 - Drum Capacity: 2000 Meters Conducting Wire
 - CTD Winch
 - Location: Winch deck
 - Manufacturer: Markey Dersh 5
 - Type: Hydraulic Drive
 - Drum Capacity: 8000 Meters Conducting Wire
 - Trawling Winches (2)
 - Location: Winch deck
 - Manufacturer: Marco model wt202
 - Type: Hydraulic Drive
 - Drum Capacity: 5000 Meters Wire
 - Gilson Winch
 - Location: Winch deck
 - Manufacturer: Pullmaster model m25
 - Type: Hydraulic Drive
 - Drum Capacity: 200 Feet Wire
 - Net Spool
 - Location: Fantail, Main Deck
 - Manufacturer: Marco model wt202
-

Cranes

- Boat Deck Crane
 - Location: Boat Deck 0-2
 - Manufacturer: North American Crane & Equipment
 - Type: Articulating
 - Safe Working Load:
 - Maximum: 20,000 lbs.
 - Minimum 2,100 lbs.
 - Fantail Crane
 - Location: Fantail- Main Deck
 - Manufacturer: North American Crane & Equipment
 - Type: Articulating
 - Safe Working Load:
 - Maximum: 24,000 lbs.
 - Minimum 6,600 lbs.
-

A and J Frames

- A Frame
 - Location: Fantail, Main Deck
 - Safe Working Load: 10,000 lbs.
 - J Frame
 - Location: Stbd. Side Aft, Main Deck
 - Safe Working Load: 3,500 lbs.
 - J Frame
 - Location: Port Side, Aft
 - Safe Working Load: 3,500 lbs.
-

Small Craft

- Rescue Boat
 - Type: Ambar Marine, ABM-5
 - Length Over All: 18'
 - Motor: 60 hp Mariner engines (2)
 - Capacity: 7 persons
 - Hoisting weight: (w. 7 persons) 3949 lbs
 - Safe Boat
 - Type: Safeboat
 - Length Over All: 15'
 - Motor: 90 hp Honda engine
 - Capacity: 7 persons
 - Hoisting weight: 1340 lbs
 - Achilles
 - Type: Achilles Inflatable
 - Length Over All: 14'
 - Motor: 40 hp Honda engine
 - Capacity: 4 persons
 - Hoisting weight: 371 lbs
 - Liferafts (6 total)
 - Type: Elliot
 - Capacity: 25 persons
-

Engineering

General

- Cruising Speed: 10.5 knots
 - Range: 5,500 nmi
 - Power: 1,600 shp
 - Fuel Capacity: 163,000 gallons
 - Fuel Consumption: 31 gal./hr. SSDG at Full
 - Fuel Type: #2 Diesel
 - Endurance: 30 days
 - Endurance Constraint: Stability
-

Propulsion Plant

- Main Propulsion
 - Type: DC Electric
 - Quantity: 2
 - Manufacturer: General Electric
 - Rated power (each): 800 hp, 750 VDC
 - Propeller
 - Type: Constant Pitch, Manganese Bronze
 - Quantity: 2 (1 Right Hand, 1 Left Hand)
 - Diameter: 96"
 - Blades: 4
 - Bowthruster
 - Manufacturer: General Electric
 - Type: Electrical Tunnel Drive
 - Rated Power: 500 hp
-

Freshwater System

- Storage capacity: 2 tanks, 2,441 gallons each
 - Normal consumption: 2,000 gallons per day
 - Evaporators
 - Quantity: 2
 - Type: exhaust/ waste heat generated
 - Manufacturer: Aqua-Chem, Inc.
 - Maximum Production: 3000 gal./day each
-

Pollution Control

- Sewage Waste Control
 - Type: 2 Marine Sanitation Device
 - Manufacturer: Omnipure MSD
 - Holding Capacity: 4705 Gallons
 - Oily Waste Control
 - Type: Oily Water Separator
 - Manufacturer: Esigma
 - Holding Capacity: 4705 Gallons
-

Electrical

- Generators (4)
 - Manufacturer: Kato Electric Corp.
 - Model: Caterpillar Model 398
 - Type: 3 Phase Diesel
 - Output: 600 KW, 60 Hz, 600 VAC
 - Emergency Generator
 - Manufacturer: Kato Electric Corp.
 - Model: Caterpillar Model 3408b
 - Type: 3 Phase Diesel
 - Output: 250 KW, 60 Hz, 450 VAC
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Communications

- VHF/FM Transceiver
 - FM-8500 Faruno Radiotelephones (2)
 - Standard Horizon VHF GX12707 FM Marine Radio
 - HF Transceivers
 - SSB FS-1562-15 Faruno Transceivers (2)
 - EPIRP (2) : ACR GPS Emergency Position Indicating Radio Beacons
 - Fax
 - Cellular Phone
 - Weather Fax
 - VHF Marine Handheld Radios (8)
 - Network plugs in every stateroom and computer room
 - Emergency Radio Alarm: DCS-60 Watch Receiver
 - Portable Emergency Radio (3) : GMDSS Portable Emergency Transceivers
 - Iridium Phone
 - INMARSAT B
 - Email (E-mail Address: Noaa.Ship.Oscar.Elton.Sette@noaa.gov)
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Acoustics

- Acoustic Doppler Current Profiler
 - Echo Sounder
 - Simrad EK-50
 - Simrad EK-60
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Navigation

- GPS
 - 2 Northstar 952x
 - 3 (handheld) Garmin 12 ch.
 - Radar
 - 2 Furuno FAR 2825 Radar/ARPA
 - Gyrocompass: Sperry MK 227
 - RDF: Simrad Taiyo TD-L 2700
 - NobleTec Software program with data received from Navstar GPS
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