

NOAA Ship *Nancy Foster*



Hull Number	<i>R352</i>
Call Sign	<i>WTER</i>
Home Port	
	<i>Charleston, SC</i>
Marine Operations Center	
	<i>Atlantic (MOC-A)</i>
Port Office	
	<i>Charleston Marine Support Facility, Charleston, SC</i>
Regular Area of Operations	
	<i>Atlantic, Caribbean, and Gulf of Mexico</i>
General Classification	
	<i>Oceanographic Research Vessel</i>
Mailing Address	
	<i>NOAA Ship Nancy Foster Marine Operations Center, Atlantic 439 West York Street Norfolk, VA 23510-1145</i>

Contact Information

IN PORT	AT SEA
Cellular	VoIP
843-991-6326 (Ship)	301-713-7780
843-697-0584 (CO)	Iridium
(XO)	808-434-5653 (from land)
843-697-0901 (OOD)	011-8816-7632-5653 (from Iridium)
843-367-2026 (CME)	Fax or E-Fax
Land Line* (Home Port)	870-600-864-933 (at sea)
843-529-0731 (VC)	Inmarsat B
843-529-0855 (VC)	011-870-336-991-210 (Voice)
843-991-6326 (Fax) call first	011-870-336-991-212 (Data)
* NOTE: Please use cell phones for primary means of contact. Land Line reliability is low until pier-side repairs are completed.	011-870-336-991-213 (Telex)
	011-870-391-031-069 (HSD)
Ship's Email	Fleet 77
Noaa.Ship.Nancy.Foster@noaa.gov	011-870-764677298 (Phone)
	011-870-600864932 (Phone)
	011-870-600864933 (Fax)
	011-870-600864934 (MPDS)
	011-870-600864930 (High Speed)
	011-870-600864931 (Low Speed)

Design		Speed & Endurance	
Designer:	McDermott, Inc.	Emergency Speed (knots):	N/A
Builder:	McDermott, Inc. Amelia, LA	Cruising Speed (knots):	10.5
Launched:	Sept. 1990	Range (nm):	3,500
Delivered:	from Navy, 2001	Endurance (days):	15
Commissioned:	May 10, 2004	Endurance Constraint:	Food
Length (LOA - ft.):	187	Compliment - Maximum	
Breadth (moulded - ft.):	40	Commissioned Officers/Mates	6
Draft, Max (ft.):	11.2	Engineers, Licensed	3
Depth to Main Deck (ft.):		Engineer, Unlicensed	2
Hull Description:	Welded steel	Deck	6
Displacement:	1,190 long tons	Survey	2
Medical Facilities:		Stewards	2
<p>One medical treatment locker. Emergency and first-aid equipment aboard, administered by designated vessel personnel. USPHS medical officer onboard as part of scientific complement for international voyages or when more than 250 nm from shore.</p>		Electronic Technicians	1
		USPHS Medical Officer	(1)
		Total Crew	22
		Scientists	15
		Berthing	
		Single Staterooms:	5
Double Staterooms:	10		
Four-person Staterooms:	3		
		Total Berths:	37
		Food Service Seating Capacity	
		Mess Room:	16

Navigational Equipment (Ship's Use)	Type (Make/Model/Amount/Location)
Radars (X and S Band)	Furuno FAR-2825 (X-band), FAR-2835S (S-band)
GPS and DGPS	Furuno GP-7000, Furuno GP-150, Furuno GP-37
Gyro Compass	Meridian Surveyor (2)
Deepwater and Shallow Navigational echosounders	Furuno FE-700 (200 kHz shallow, 50 kHz deep)
ECDIS	Transas Navi-Sailor 4000 Multi-Function Displays with installed raster and vector nautical charts (2)
AIS	SAAB R5 Supreme AIS transponder

Navigational Equipment (Access to onboard Scientists)		Type (Make/Model/Amount/Location)	
GPS and DGPS		Trimble DSM132 DGPS, Applanix POS/MV v4	
Gyro Compass		Meridian Surveyor (repeater in Wet Lab)	
Deepwater and Shallow Navigational echosounders		Knudsen 3200 echosounder (200kHz/12kHz)	
Charting Program with Ship's Position		Hypack	

Laboratory Spaces and other Scientific Spaces			
Type	Location	ft. ²	Description: (Available Services and/or Connections, counter space, etc.)
Wet Lab	Main Deck	416	scuba tank storage, fluorometer, TSG, fume hood, sample freezers, small hazmat locker, table and desk space
Dry Lab	Main Deck	272	science computers, hydroacoustic survey computers
Electronics/Computer Lab	Main Deck	272	same as dry lab above
Scientific Freezer	Wet lab		
Scientific Freezer	Wet lab		
Scientific Refrigerator	Wet lab		
Store Room	Hold Deck		

Scientific Data Collection Systems and Supportable Operations	
Type	Brief Description (where equipment is involved, please state what type (i.e. ME70, EK60, ES60, Seabird, etc.)
Conductivity, Temp., Depth (CTD) With Water Samples	SBE-9/11plus with additional sensors optional: temperature: SBE-03P (2), conductivity: SBE-04C (2), pump: SBE-05T (2), pH: SBE-18 (2), dissolved oxygen: SBE-43 (2), Seapoint SCF fluorometer, and Seapoint Turbidity sensor. SBE-32 carousel with 12 5L, internal Teflon-coated spring closure, niskins.
Multibeam Equipped for Biological Surveys	Reson 7125 SV2, dual frequency (200kHz or 400kHz) shallow water system. Optimal range: 5-250m. Simrad EM1002, 95kHz. Optimal range: 200-1000m
Dive Team Equipped	
Remote Operated Vehicles (ROVs) Support	
Scientific Computer System Equipped	Version 4.7
Scientific Diver Support	
Thermosalinograph	SBE-21 with remote temperature SBE-38 and Seapoint SCF fluorometer
Choose an item.	
Expendable BathyThermographs (XBT) Capable	
Acoustic Current Doppler Profiler (ADCP)	Teledyne RDI Ocean Surveyor 150kHz. Optimal range: 450m.
Automated Underwater Vehicles (AUV) Support	
Mooring Deployment/Recovery Capable	
Unmanned Aerial Systems (AUS) Support	
Conductivity, Temp., Depth (CTD) Without Water Samples	SBE-19 (2), pressure housing rated to 600m and 1000m
Thermosalinograph	SBE-45
Fisheries Acoustics	Simrad EK60 Fisheries Acoustic suite, 38kHz, 120kHz and 200kHz.
Echosounder	Knudsen 3200 Singlebeam Echosounder, 12kHz or 200kHz. Optimal range: 0-7000m.
POS/MV	Applanix, v.4

DATA COLLECTED BY THE SHIP'S SCIENTIFIC COMPUTER SYSTEM (SCS) IN THE STANDARD CONFIGURATION		
Description	Units	Data Source
HDT - Heading (True)	Deg. True	Gyro
VTG - Track made good and ground speed	KTS, Deg.	Furuno 7000
GPS 1: GGA (Lat/Long, time)	Deg.	Furuno 7000
TSG (sequence, cell temp, salinity, bow temp, conductivity, fluorometer-Seapoint, Latitude, Longitude, Time) ALL data fields in one raw file	Count, Deg.C, ppm, Deg.C, Siemens/m, v, Deg., Deg., Julian	SBE-21
MET 1: MWV (Wind speed and direction, Relative) ALL data fields in one raw file	KTS., Deg.	RM Young, 05106
MET 1: XDR (air temp, relative humidity, wet bulb, barometer) ALL data fields in one raw file		RM Young
J-Frame (payout, speed) ALL data fields in one raw file	m, m/s	
Sea Temp- Hull	Deg.C	Aimar B17
Depth 1 (DBT)	ft., M, ft.m.	Furuno FE-700
A-Frame (payout, speed) ALL data fields in one raw file	m, m/s	
GPS 3 (GGA, VTG, HDT) Each in their own raw file		Applanix, v.4
GPS 2 (GGA, VTG) Each data field in their own raw file	KTS, Deg.	Furuno GP150
MET 2: MWV (Wind speed and direction, Relative) ALL data fields in one raw file	KTS., Deg.	RM Young
TW (Wind direction and speed, True)	KTS., Deg.	RM Young (for MET 1, 2 and 3)
Depth 2 (DBT)	m	Knudsen 3200
MET 3: MWV (Wind speed and direction, Relative) ALL data fields in one raw file	KTS., Dir.	RM Young

DECK EQUIPMENT:

Winch – Oceanographic (J-Frame)		Winch – (A or J-Frame)	
Quantity:	1	Quantity:	1
Manufacturer:	Markey	Manufacturer:	DT Marine
Model:	COM 15	Model:	DT3030EHLWR
Drive:	15HP, 460VAC 3 phase	Drive:	30HP, 460V AC 3 phase
Max. Pull (lbs.):	3,800	Max. Pull (lbs.):	4,000
Max. Depth (m)	3000	Max. Depth (m)	
Drum Capacity:	5,000m of .322" conductor cable	Drum Capacity:	
Type of Cable Installed:	.322" conductor cable	Type of Cable Installed:	
Length of Cable on the drum (m)	5,000	Length of Cable on the drum (m)	1,400
Location:	01 Deck, Starboard (toward J-frame)	Location:	Main Deck or 01 Deck (movable with pier crane)

Winch – (A or J-Frame)		Crane, Telescopic Boom	
Quantity:	1	Quantity:	1
Manufacturer:	DT Marine	Manufacturer:	North American
Model:	DT210EHLWR	Model:	
Drive:		Boom Length (ft.):	35
Max. Pull (lbs.):	2,000	Lifting Cap. (lbs.):	2,325
Max. Depth (m)		Location:	01 Deck, Amidships
Drum Capacity:	3,000	Crane, Knuckle Boom	
Type of Cable Installed:		Quantity:	1
Length of Cable on the drum (m)		Manufacturer:	Good Crane
Location:	Main Deck or 01 Deck (movable with pier crane)	Model:	40KSC10000
		Boom Length (ft.):	40
		Lifting Cap. (lbs.):	10,000
		Location:	Main Deck, Aft

A Frame		J Frame	
Quantity:	1	Quantity:	1
Type:	Movable	Type:	Movable
Clearance over the stern (ft.):	12.3	Clearance over the side (ft.):	6
Horizontal Clearance (ft.):	14	Vertical Clearance (ft.):	13.9
Safe Working Load (lbs.)	25,000 (low-seas) 18,750 (hi-seas)	Safe Working Load (lbs.)	5,000
Location:	Main Deck stern	Location:	Main Deck Port

Boat Davit (Make/Model)		Anchor – Bow	
Quantity:	1	Quantity	2
Manufacturer:	WelinLambie	Type	Stockless
Model:	PIV 3.0B	Weight (lbs.)	
Hoisting Capacity	6,600 lbs.	Port Anchor Chain Length (fathoms)	90
Location	O1 Deck, Starboard	Starboard Anchor Chain Length (fathoms)	105
Boat type used	rescue		

BOATS (Normally Equipped)				
	Type	Horsepower	Length Over All (ft.)	Max. Persons
1	Rigid Hull Inflatable Boat (RHIB)	320	23	15 by design
		NF4: powered by jet drive; used primarily for science diving operations and personnel transfers; 3,300-lb. max load including personnel and wet gear (typical arrangement: coxswain, coxswain-in-training, and 4 to 6 divers with gear)		
2	Rigid Hull Inflatable Boat (RHIB)	60	17.5	7 by design
		NF3: powered by outboard; used primarily for science diving operations and personnel transfers; 1,400-lb. max load including personnel and wet gear (typical arrangement: coxswain, coxswain-in-training, and 2 to 4 divers with gear)		
3	Rigid Hull Inflatable Boat (RHIB)	60	18.5	7 by design
		NF2: powered by outboard; used primarily for science diving operations and personnel transfers; 1,700-lb. max load including personnel and wet gear (typical arrangement: coxswain, coxswain-in-training, and 2 to 3 divers with gear)		
4	Rescue Boat (SOLAS Approved)	60	18	7 by design
		NF1: rescue boat for man-overboard situations and other emergencies		

Additional Capabilities (not previously stated)	
Type	Description
Dynamic Positioning Capable	Beier IVCS 2000
Compressed Air	Bauer K-180 HP air compressor, Bauer NK-60 LP air compressor, NTX-4050-2 Nitrox Membrane System, Bauer CFS II fill station, and 12 compressed gas storage cylinders for filling scuba tanks with air or Nitrox