

NOAA Ship *Okeanos Explorer*

	Hull Number	<i>R337</i>
	Call Sign	<i>WTDH</i>
	Home Port	
		<i>North Kingstown, RI</i>
	Marine Operations Center	
		<i>Atlantic (MOC-A)</i>
	Port Office	
		<i>NOAA Davisville Facility, North Kingstown, RI</i>
	Regular Area of Operations	
		<i>Global, International</i>
	General Classification	
		<i>Oceanographic Exploration Vessel</i>
Mailing Address		
	<i>NOAA Ship Okeanos Explorer 2578 Davisville Rd. North Kingstown, RI 02852</i>	

Contact Information	
IN PORT	AT SEA
Cellular	VoIP
401-932-4114 (Ship)	301-713-7772/301-713-7785
401-378-8284 (CO)	Iridium
401-474-8992 (XO)	808-659-9179
401-378-7414 (OOD)	808-851-3827
401-378-7947 (EOW)	
Land Line (Home Port)	Inmarsat Mini-M:
401-294-4760 (VC)	None
401-294-4591 (VC)	Fax or E-Fax
401-294-4902 (VC)	011-870-764-852-328
401-294-4686 (Fax)	Inmarsat B
Ship's Email	011-870-764-852-328 (Voice/Fax)
Noaa.Ship.Okeanos.Explorer@noaa.gov	011-870-764-852-329 (Voice)

Design		Speed & Endurance	
Designer:	Halter Marine	Emergency Speed (knots):	12
Builder:	VT Halter Marine, Inc., Moss Point, Mississippi	Cruising Speed (knots):	10
Launched:	Oct. 28, 1988	Range (nm):	9600
Delivered:	Sept. 10, 2004	Endurance (days):	40
Commissioned:	Aug. 13, 2008	Endurance Constraint:	Food
Length (LOA - ft.):	224		
Breadth (moulded - ft.):	43	Compliment - Maximum	
Draft, Maximum (ft.):	16.83 Bow Thruster retracted 20.08 Bow Thruster lowered	Commissioned Officers/Mates	6
Depth to Main Deck (ft.):	5.92	Engineers, Licensed	3
Hull Description:	White	Engineer, Unlicensed	3
Displacement:	2062 tons (Int'l)	Deck	7
Berthing		Survey	2
Single Staterooms:	12	Stewards	3
Double Staterooms:	13	Electronic Technicians	2
Other Staterooms:	2 four-man berths	USPHS Medical Officer	1
Total Berths:	46	Total Crew	27
		Scientists	19

Medical Facilities:	Food Service Seating Capacity	
One medical treatment room containing one berth for patients. Emergency and first-aid equipment aboard, administered by MedPIC. USPHS medical officer onboard.	Frwd Mess Room:	8
	Aft Mess Room:	20
	Third Mess (if required)	10

Navigational Equipment (Ship's Use)	Type (Make/Model/Amount/Location)
Radars (X and S Band)	S-band Furuno/FAR 2837S/Bridge X-Band Furuno/FAR 2827X/ Bridge
GPS and DGPS	Furuno/GP-150/Bridge (Both models)
Gyro Compass	SG Brown Meridian/TSS/Bridge
Deepwater and Shallow Navigational echosounders	Furuno/FE-700/Bridge
ECDIS	Transas/Navi-Sailor 4000/Bridge
AIS	Furuno/FA-150/Bridge

Navigational Equipment (Access to onboard Scientists)	Type (Make/Model/Amount/Location)
GPS and DGPS	C-Navi Gator GPS and GPS from SCS
Gyro Compass	Gyro repeater from SCS
Deepwater and Shallow Navigational echosounders	EK-60 from SCS
ECDIS	Display of bridge ECDIS via video feed
Charting Program with Ship's Position	Nobeltec

Laboratory Spaces and other Scientific Spaces			
Type	Location	Ft²	Description: (Available Services and/or Connections, counter space, etc.)
Dry Lab	O1 Deck	132	Survey space with scientific computers and counter space
Wet Lab	O1 Deck	260	Area available for wet operations, chemical samples, etc.
Electronics/Computer Lab	O1 Deck	216	Control room for ROV, mapping, and scientific operations
Climate Controlled Space	O1 Deck	140	Computer server, network, and data storage room, must maintain cool temperature for electronics in this space
Staging Bay	Main Deck	320	ROV hangar, stores ROV and equipment
Dry Lab	Main Deck	128	ROV workshop, provides counter space for ROV related work/repairs

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.)
Thermosalinograph	SBE-45 FastCat Micro
Multibeam Equipped for Hydrographic Surveys	Kongsberg EM-302
Conductivity, Temp., Depth (CTD) With Water Samples	Seabird SBE 9-11Plus CTD
Expendable BathyThermographs (XBT) Capable	Deep Blue/Sippican MK-21 XBTs
Dive Team Equipped	4 person working diver team aboard
Single Side Scan Equipped	SIMRAD EK-60
Remote Operated Vehicle (ROV) Equipped	Deep Discoverer and Seirios
Scientific Computer System Equipped	SCS v4
Knudsen CHIRP	Sub-bottom profiler
Applanix POS/MV 320	Location, heading, attitude

DATA COLLECTED BY THE SHIP'S SCIENTIFIC COMPUTER SYSTEM (SCS) IN THE STANDARD CONFIGURATION

Description	Units	Data Source
VWR - Relative wind speed and angle	KTS	RM Young Wind Sensors
GLL - Geographic Position (Lat/Lon)	Lat/Long	DGPS Satellites
MTW - Mean Temp. for Water	Deg.C	Thermosalinograph
HDT - Heading (True)	Deg.T	Gyrocompass
OSD - Own Ship Data (Ship course & speed)	Deg.T/ KTS	Ship input/GPS
ZDA - Time and Date (UTC. d. m, yr, TZ)	Time	GPS
Digital barometer	mB	
ROV environmental data	Deg.C/ m	
Digital air thermometer	Deg.C	
Doppler speed log	KTS	
Tensiometers for all cranes/winches	lbs.	
Fluorometer (measures chlorophyll)	µg/L	
Relative humidity	%	
Sound velocity probe	m/s	

DECK EQUIPMENT:

Winch –(General Purpose)		Winch – (Oceanographic)	
Quantity:	1	Quantity:	1
Manufacturer:	Markey	Manufacturer:	Markey
Model	COM-10V	Model	DESH-5
Drive:	460V, 3-Phase, 60 Hz, 7.5 HP, 1200 RPM	Drive:	Electric motor- AC Vector Drive, automatic brake
Max. Pull (lbs.):	3,300	Max. Pull (lbs.):	15,000
Max. Depth (m)		Max. Depth (m)	
Drum Capacity:	3,000m of 0.25" Galvanized wire rope	Drum Capacity:	8,000 m of 0.375" electro-mechanical cable
Type of Cable Installed:	Galvanized wire rope	Type of Cable Installed:	.375" electro- mechanical cable
Length of Cable on the drum (m)		Length of Cable on the drum (m)	
Location:	O-2 Deck, Starboard Aft of EX-1	Location:	O-2 deck above ROV hanger

Winch – Traction (ROV Ops)		Crane, Aft Working Deck Crane	
Quantity:	1	Quantity:	1
Manufacturer:	Dynacon	Manufacturer:	Hydra Pro
Model:	766	Model:	HP46/18KE
Drive:	Electro-Hydraulic Power Unit	Boom Length (ft.):	46
Max. Pull (lbs.):	20,000 SWL	Lifting Cap. (lbs.):	12,000 at 20' radius
Max. Depth (m)		Location:	Aft working deck, Starboard
Drum Capacity:	10,000m of .681" fiber optic power cable	Crane, ROV Crane	
Type of Cable Installed:	8,000m of .322" conductor cable	Quantity:	1
Length of Cable on the drum (m)		Manufacturer:	Hydra Pro
Location:	2 Deck Aft of propulsion space	Model:	HP40/13KESO
		Boom Length (ft.):	40
		Lifting Cap. (lbs.):	14,000 at 15' radius
		Location:	Aft working deck, Port

A Frame		J Frame	
Quantity:	1	Quantity:	1
Type:	Movable	Type:	Movable
Clearance over the side (ft.):	12	Clearance over the side (ft.):	8
Horizontal Clearance (ft.):	15 on deck	Horizontal Clearance (ft.):	
Safe Working Load (lbs.)	20,000	Safe Working Load (lbs.)	3,500
Location:	Working Deck Aft	Location:	O-1 Deck Starboard

Boat Davit (Rescue/Work Boats)		Anchor - Bow	
Quantity:	2	Quantity:	2
Manufacturer:	Vestdavit	Type:	Stockless, bower
Model:	PLR Steel, A-Frame FCR	Weight (lbs.):	3,762
Hoisting Capacity:	7,900 lbs.	Port Anchor Chain Length (fathoms)	120
Location:	O-2 Deck Port /Starboard	Starboard Anchor Chain Length (fathoms)	105
Boat type used:	RHIB		

BOATS (Normally Equipped)				
	Type	Horsepower	Length Over All (Ft.)	Max. Persons
1	Rescue Boat (SOLAS Approved)	250	22	9
		Willard 670 SOLAS Fast Rescue Boats (FRB), Jet drive propulsion		
2	Rigid Hull Inflatable Boat (RHIB)	250	22	9
		Willard 670 SOLAS FRB, Jet drive propulsion		

Additional Capabilities (not previously stated)	
Type	Description
Compressed Air	Used for filling SCBA bottles and SCUBA diving cylinders
Dynamic Positioning Capable	Kongsberg K-POS DP-11, ship operates using dynamic positioning during ROV and various other operations.
Access to Clean Electrical Power	Ship provides clean power in various locations for sensitive electronic equipment