

NOAA Ship *Ferdinand R. Hassler*



Hull Number	S-250
Call Sign	WTEK
Home Port	New Castle, NH
Marine Operations Center	Atlantic (MOC-A)
Port Office	Northeast Marine Support Facility, Woods Hole, Massachusetts
Regular Area of Operations	Atlantic, Caribbean, and Gulf of Mexico
General Classification	Hydrographic Survey Vessel
Mailing Address	NOAA Ship <i>Ferdinand R. Hassler</i> 29 Wentworth Rd. New Castle, NH 03854

Contact Information

IN PORT	AT SEA
Cellular	VoIP
603-812-8748 (Ship)	301-713-7776
757-339-1950 (CO)	Iridium
206-427-9554 (XO)	808-851-3826
757-323-3709 (EOW)	8816-7634-3826 (Voice and Data)
Land Line (Home Port)	Inmarsat Mini-M:
603-431-4500 (Line 1)	none
603-431-0163 (Line 2)	Fax or E-Fax
Ship's Email	none
CO.Ferdinand.Hassler@noaa.gov	Inmarsat B
	011-874-336-991-210 (Voice)
	011-874-336-991-212 (Data)
	011-874-336-991-213 (Telex)
	011-874-391-031-069 (HSD)

Design		Speed & Endurance	
Designer:	VT Halter Marine	Emergency Speed (KTS):	12.5
Builder:	Halter Marine, Inc., Pascagoula, MS	Cruising Speed (KTS):	12.0
Launched:	September 19, 2009	Range (NM):	5700
		Endurance (days):	14
Delivered:	May 23, 2011	Endurance Constraint:	Food
Commissioned:	June 8, 2012	Compliment – Maximum	
Length (LOA - ft.):	122.87	Commissioned Officers/Mates	4
Breadth (moulded - ft.):	53.81	Engineers, Licensed	3
Draft, Maximum (ft.):	12.63	Engineer, Unlicensed	0
Depth to Main Deck (ft.):	23.00	Deck	3
Hull Description:	SWATH	Survey	1
Displacement:	744.40 metric tons	Stewards	1
Medical Facilities:		Electronic Technicians	1
Emergency and first-aid equipment aboard, administered by designated vessel personnel.		Physical Scientist	1
		Total Crew	14
		Berthing	
		Single Staterooms:	2
		Double Staterooms:	6
		Total Berths:	14
		Food Service Seating Capacity	
		Mess Room:	12

Navigational Equipment (Ship's Use)	Type (Make/Model/Amount/Location)
Radars (X and S Band)	Sperry Marine VisionMaster ft.
GPS and DGPS	FURUNO GP-150, DGPS and WASS enabled (2)
Gyro Compass	Navicat X MK 1 (2)
Navigational echosounder (50 Hz, 200 Hz)	FURUNO FE-700 (1)
ECDIS	Sperry Marine Vision Master (2)
Autopilot	Sperry Navipilot 4000 (1)
Doppler Speed Log	Sperry Marine SRD-500 (1)
AIS	FA-150

Navigational Equipment (Access to onboard Scientists)	Type (Make/Model/Amount/Location)
None Listed	

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) Without Water Samples	Brooke Ocean MVP-30 deployed by Moving Vessel Profiler winch off the stern.
Conductivity, Temp., Depth (CTD) Without Water Samples	Sea Bird SeaCat SBE 19+ deployed by CTD winch and A-frame off the stern or by hand over the side.
Dive Team Equipped	Full working diver compliment
Multibeam Equipped for Hydrographic Surveys	200/ 400 kHz Reson 7125 on Port and Starboard hulls, 1024 individual depth measurements across a swath of >140°
Multibeam Equipped for Hydrographic Surveys	100 kHz Reson 7111 on Starboard hull, 301 individual depth measurement across a swath of 150°
Sound Speed Sensor Equipped for Hydrographic Surveys	Dual SVP-70 hull mounted on Port and Starboard hulls for surface sound speed measurements.
Side Scan Sonar Equipped for Hydrographic Surveys	Towed Klein 5500 V2, images features <1m in size and across a 200m swath at speeds up to 12 kts with K-1 depressor wing.
Position and Attitude System Equipped for Hydrographic Surveys	Dual Applanix POS MV 320 V5 to resolve ship's position and attitude.
Position System Equipped for Hydrographic Surveys	Hemisphere MBX-4 DGPS receiver to resolve ship's position.
Thermosalinograph	SeaBird SBE 45 Micro CTD (2)

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

Description	Units	Data Source
VTG - Track made good and ground speed	True	GPS/DGPS
GLL - Geographic Position (Lat/Lon)	DMS	GPS/DGPS
ZDA - Time and Date (UTC. d. m, yr, TZ)	UTC	GPS/DGPS
GGA- Time, position, and fix related data	DMS, UTC	GPS/DGPS
HDT - Heading (True)	True	Gyro I
DBT- Depth below transducer	ft., m, ftm	Navigational Echosounder
DBS- Depth below surface	ft., m, ftm	Navigational Echosounder
DPT - Depth of Water with transducer offset	ft., m, ftm	Navigational Echosounder
XWS- Wind speed and direction, Starboard	KTS, True	Anemometer
XWP- Wind speed and direction, Port	KTS, True	Anemometer
XDR- Temperature, humidity, and barometric pressure	Deg.C, %, mb	Young
TSG- Temperature, conductivity, salinity, sound speed	Deg.C, s/m, g/kg, m/s	Thermosalinograph
MTW - Mean Temp. for Water	Deg.C	Thermosalinograph

Laboratory Spaces and other Scientific Spaces			
Type	Location	ft. ²	Description: (Available Services and/or Connections, counter space, etc.)
Electronics/Computer Lab	Plot room Aft of bridge	429	4 processing computers, 2 acquisition computers, 82 ft ² counter space.
Staging Bay	Garage	248	Dive locker, deep sink, limited counter space.

DECK EQUIPMENT:

WINCH–CTD		WINCH – Side Scan Sonar	
Quantity:	1	Quantity:	1
Manufacturer:	Interocean	Manufacturer:	DT Marine
Model	10031-12.5ELW-M	Model	3020EHLWR
Drive:	Electronically Controlled DC motor and brake	Drive:	Electronically Controlled DC motor and brake
Max. Pull (lbs.):	2072	Max Pull (lbs.):	2000
Max. Depth (m)	1700	Max Depth @ Rate	50m at 6 knots
Drum Capacity:	2,000m of 8.2 mm conductor cable	Drum Capacity:	400 m of 0.40" cable
Type of Cable Installed:	.330" conductor cable	Type of Cable Installed:	.409" conductor cable
Length of Cable on the drum (m)	2000	Length of Cable on the drum (m)	400
Location:	01 Deck	Location:	01 Deck

WINCH–General Purpose		WINCH–Moving Vessel Profiler	
Quantity:	1	Quantity:	1
Manufacturer:	Markey	Manufacturer:	Rolls-Royce – Brooke Ocean
Model	20197 DEPH-7	Model	MVP 200
Drive:	Electronically Controlled DC motor and brake	Drive:	Electronically Controlled DC motor and brake
Max. Pull (lbs.):	5060	Max. Pull (lbs.):	485 at full drum
Max. Depth (m)	800	Max. Depth (m)	350 at 5 KTS
Drum Capacity:	1000 m of 7/16" wire rope	Drum Capacity:	660 m
Type of Cable Installed:	7/16" wire	Type of Cable Installed:	Jacketed Electro-Mechanical, 4 conductor cable
Length of Cable on the drum (m)	1000	Length of Cable on the drum (m)	600
Location:	01 Deck	Location:	1 Deck fantail

Knuckle Boom Crane		A Frame	
Quantity:	1	Quantity:	1
Manufacturer:	DMW Marine Group, LLC	Type:	Movable
Model:	DMW 877 M-4	Clearance over the side (ft.):	20' 9"
Boom Length (ft.):	38.52	Horizontal Clearance (ft.):	11' 10"
Lifting Cap. (lbs.):	8,000	Safe Working Load (lbs.)	4,078
Location:	01 Deck, Port side	Location:	1 Deck, fantail

Boat Davit FRB		Boat Davit Small Boat	
Quantity:	1	Quantity:	1
Manufacturer:	Global Davit	Manufacturer:	Vest Davit
Model:		Model:	H-6000
Hoisting Capacity	13 kN	Hoisting Capacity	6,000 kg
Location	01 Deck, Port side	Location	01 Deck, Starboard side
Boat type used	FRB	Boat type used	AMBAR

Anchor – Bow		Windlass - Bow	
Quantity	2	Quantity	2
Type	Navy fluke	Manufacturer:	Coastal Marine Equipment, Inc.
Weight (lbs.)	2380	Model:	1W12531-126-00
Port Anchor Chain Length (fathoms)	105	Lifting Cap. (lbs.):	15,250 at 100% motor load
Starboard Anchor Chain Length (fathoms)	105	Brake Holding:	82,800 lbs.

BOATS (Normally Equipped)				
	Type	Horsepower	Length Over All (ft.)	Max. Persons
1	Rigid Hull Inflatable Boat (RHIB)	90	17	6
2	Rigid Hull Inflatable Boat (RHIB)			

Additional Capabilities (not previously stated)	
Type	Description
None Listed	