

NOAA Ship *Hi'ialakai*



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|-----------------------------------|---|
| Hull Number | <i>R334</i> |
| Call Sign | <i>WTEY</i> |
| Home Port | <i>Ford Island, HI</i> |
| Marine Operations Center | <i>Pacific Islands (MOC-PI)</i> |
| Port Office | <i>None</i> <i>Other</i> |
| Regular Area of Operations | <i>Pacific</i> |
| General Classification | <i>Oceanographic Research Vessel</i> |
| Mailing Address | <i>NOAA Ship Hi'ialakai Marine Operations Center, Pacific Islands 1897 Ranger Loop, Bldg 184 Pearl Harbor, HI 96818</i> |

| Contact Information | |
|-------------------------------------|------------------------------|
| IN PORT | AT SEA |
| Cellular | VoIP |
| <i>808-721-9957 (Ship)</i> | <i>301-713-7793</i> |
| <i>808-479-9575 (CO)</i> | Iridium |
| <i>808-292-3411 (XO)</i> | <i>808-684-3235 (Voice)</i> |
| <i>808-479-9573 (OOD)</i> | <i>808-447-1757 (Fax)</i> |
| Land Line (Home Port) | Inmarsat Voice: |
| <i>808-725-5780 (Line 1)</i> | <i>9-011-870-764-144-499</i> |
| <i>808-725-5781 (Line 2)</i> | Inmarsat Fax: |
| <i>808-725-5782 (Line 3)</i> | <i>9-011-870-764-144-510</i> |
| <i>808-725-5783 (Fax)</i> | |
| Ship's Email | |
| <i>Noaa.Ship.Hiialakai@noaa.gov</i> | |
| | |

| Design | | Speed & Endurance | |
|---------------------------|--------------------|------------------------------|-----------|
| Designer: | Tacoma | Emergency Speed (KTS): | 11.5 |
| Builder: | Tacoma | Cruising Speed (KTS): | 10 |
| Launched: | 1984 | Range (nm): | 20,232 |
| Delivered: | 2002 | Endurance (days): | 35 |
| Commissioned: | 2004 | Endurance Constraint: | Food |
| Length (LOA – ft.): | 224 | | |
| Breadth (moulded - ft.): | 43 | Compliment - Maximum | |
| Draft, Maximum (ft.): | 16' 10" | Commissioned Officers/Mates | 6 |
| Depth to Main Deck (ft.): | 20 | Engineers, Licensed | 3 |
| Hull Description: | ABS A5-A0, B, C, D | Engineer, Unlicensed | 3 |
| Displacement: | 2285 Long Tons | Deck | 9 |
| Gross Domestic Ton | 1493 Long Tons | Survey | 1 |
| Berthing | | Stewards | 4 |
| Single Staterooms: | 10 | Electronic Technicians | 1 |
| Double Staterooms: | 16 | USPHS Medical Officer | 1 |
| Other Staterooms: | 2 Quad berths | | |
| Total Berths: | 50 | Total Crew | 28 |
| | | Scientists | 22 |

| Medical Facilities: | Food Service Seating Capacity | |
|--|--------------------------------------|----|
| One medical treatment room containing one berth for patient. Emergency and first-aid equipment aboard administered by USPHS medical officer. | Fwd Mess Room: | 8 |
| | Aft Mess Room: | 20 |
| | | |

| Navigational Equipment (Ship's Use) | Type (Make/Model/Amount/Location) |
|---|--|
| Radars (X and S Band) | Furuno FAR 2807 |
| GPS and limited DGPS | Furuno GP-90. |
| Gyro Compass | SG Brown, Meridian |
| Deepwater and Shallow Navigational echosounders | Furuno FE-700 and Furuno FE-720 |
| ECDIS | Transis Navi Sailor 4000 |
| Charting Program with Ship's Position | Nobletech Admiral 11 |
| GMDSS – Sat C | Furuno FELCOM 15 |
| GMDSS - VHF | Furuno FM-8800S |
| GMDSS – MF-HF Transceiver | Furuno FS-1562-15 |
| GMDSS – DCS-Watch Receiver | Furuno DSC 60 |
| GMDSS - Telex | Furuno IB-581 |
| GMDSS - Navtex | NX-700 |

| Navigational Equipment (Access to onboard Scientists) | Type (Make/Model/Amount/Location) |
|--|--|
| GPS and DGPS | DGPS subscription required by visiting party for any station not covered for free. |
| Charting Program with Ship's Position | GlobalMapper 14 |
| Charting Program with Ship's Position | SAIC ISS 2000 (Upgrade in Progress) |
| Multi-beam Echosounder | Kongsberg EM300 and EM3002 |

| Laboratory Spaces and other Scientific Spaces | | | |
|--|-----------------|------------------------|--|
| Type | Location | ft.² | Description: (Available Services and/or Connections, counter space, etc.) |
| Dry Lab | | | |
| Wet Lab | | | |
| Scientific Freezer | Wet Lab | | Walk in with rack shelves |
| Electronics/Computer Lab | | | |

| 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.) |
| Acoustic Current Doppler Profiler (ADCP) | Server Room. Teledyne OS75 |
| Conductivity, Temp., Depth (CTD) With Water Samples | Grated Deck. SeaBird Electronics (SBE)SBE9Plus/V11-2 redundant SBE3 and SBE4 temp/cond, SBE32 12 bottle carousel |
| Expendable BathyThermographs (XBT) Capable | |
| Thermosalinograph | Wet Lab. SeaBird Electronics (SBE) SBE21, Bow Thruster Room: SBE38 external temp sensor |
| Scientific Computer System Equipped | Slave available in Dry Lab |
| Multibeam Equipped for Biological Surveys | EM3002 Kongsberg Simrad |
| Hyperbaric Chamber Equipped | Multi Position Multi Lock Chamber |
| Scientific Diver Support | |
| Dive Team Equipped | |
| Remote Operated Vehicles (ROVs) Support | |
| Mooring Deployment/Recovery Capable | |

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

| Description | Units | Data Source |
|---|-------|-------------|
| DPT - Depth of Water with transducer offset | XXX | XXX |
| HDT - Heading (True) | | |
| VTG - Track made good and ground speed | | |
| VTG Version 1 (TC, MC, SOG, STW, etc) | | |
| ZDA - Time and Date (UTC. d. m, yr, TZ) | | |

DECK EQUIPMENT:

| Crane, Telescopic Boom | | Anchor - Bow | |
|-------------------------------|-------------------------------|--------------------------------------|-----------|
| Quantity: | 1 | Quantity | 2 |
| Manufacturer: | HydraPro | Type | Stockless |
| Model: | HP46/18KE | Weight (lbs.) | 3500 |
| Boom Length (ft.): | 46 | Port Anchor Chain Length (ftms) | 120 |
| Lifting Cap. (lbs.): | 6,600@46 ft. | Starboard Anchor Chain Length (ftms) | 105 |
| Location: | O2 Deck, Starboard, Amidships | | |

| A Frame | | J Frame | |
|--------------------------------|-------------|--------------------------------|-------------------|
| Quantity: | 1 | Quantity: | 1 |
| Type: | Movable | Type: | Movable |
| Clearance over the side (ft.): | Unknown | Clearance over the side (ft.): | Unknown |
| Horizontal Clearance (ft.): | Unknown | Horizontal Clearance (ft.): | Unknown |
| Safe Working Load (lbs.) | 22,000 | Safe Working Load (lbs.) | 3,500 |
| Location: | Fantail Aft | Location: | O2 Deck Starboard |

| Boat Davit (Make/Model) | | Boat Davit Rescue Boat | |
|--------------------------------|--|-------------------------------|---------------------|
| Quantity: | 2 | Quantity: | 1 |
| Manufacturer: | VestDavit | Manufacturer: | Welin-Lambie |
| Model: | HN-9000 | Model: | Sabre 8A |
| Hoisting Capacity | 9,000 kg (19,800 lbs.) | Hoisting Capacity | 1370 kg (2970 lbs.) |
| Location | O2 Deck, Amidships, Port and Starboard | Location | O1 Deck, Port, Aft |
| Boat type used | AMBAR, Metalshark | Boat type used | FRB (AMBAR) |

| BOATS (Normally Equipped) | | | | |
|----------------------------------|--|---|-----------------------------|---------------------|
| | Type | Horsepower | Length Over All (Ft) | Max. Persons |
| 1 | Rigid Hull | 455 | 29 | 10 |
| | Data collection equipment and/or special features. | Metalshark. 6.7 liter Cummins Diesel. PORT Davit | | |
| 2 | Rigid Hull | 210 | 26 | 10 |
| | Data collection equipment and/or special features. | AMBAR (Silverships). 4 liter Yanmar Diesel. Starboard Davit | | |
| 3 | Rigid Hull | 90 | 17 | 5 |
| | Data collection equipment and/or special features. | Northwind. Honda outboard. Cradled on fantail | | |
| 4 | Rescue Boat (SOLAS Approved) | 90 | 18 | 7 |
| | Data collection equipment and/or special features. | AMBAR 550 w/90 HP Honda outboard. Rescue boat davit portside O1 Deck. | | |

| Additional Capabilities (not previously stated) | |
|--|--------------------|
| Type | Description |
| None Listed | |