

NOAA Ship KA'IMIMOANA - R333

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Near Real-time images and data from the KA'IMIMOANA.

Be sure to visit the KA'IMIMOANA's "at sea" website for near real-time images and data from the ship. This site features daily updates of the ship's position & trackline, weather and sea conditions, and a whole lot more.

Operational Missions

The KA'IMIMOANA (The Ocean Seeker) is the newest addition to the fleet of vessels used by the National Oceanic and Atmospheric Administration (NOAA) to improve our nations' understanding of the physical environment. The KA'IMIMOANA, will be utilized primarily by NOAA's office of Ocean and Atmospheric Research (OAR) and operated by the Office of NOAA Corps Operations.

KA'IMIMOANA was originally built as the U.S. Naval Ship TITAN (T-AGOS 15) in 1989 by Halter Marine in Moss Point, Mississippi. TITAN was operated by the Military Sealift Command as an Ocean Surveillance Ship until her transfer to NOAA on August 31, 1993. Conversion to her present configuration began in May, 1995 at Maritime Contractors, Inc Shipyard in Bellingham, Washington, and, she was redelivered to NOAA as KA'IMIMOANA in April 1996. KA'IMIMOANA is now fully operational, ready to support NOAA's oceanographic and climate research missions in the Pacific.

KA'IMIMOANA will primarily be involved in the Global Ocean Atmosphere Land System (GOALS) and the Pan American Climate Studies (PACS) research programs, part of NOAA's Tropical Atmosphere-Ocean (TAO) mission. These programs are designed to improve our understanding of the role of the tropical ocean in modifying the world's climate. The ship will deploy, recover, and service deep sea moorings that measure ocean currents, ocean temperatures, and atmospheric variables throughout the equatorial Pacific Ocean (see TAO Array location map). In addition to buoy measurements, which are transmitted in real time to the NOAA Pacific Marine Environmental Laboratory (PMEL) in Seattle, the ship will measure upper ocean currents, surface salinity, carbon dioxide content, and upper air atmospheric soundings while underway. A census of barnacles and marine life that inhabit the recovered moorings and the periodic replacement of undersea hydrophone moorings used to locate undersea spreading centers and hydrothermal vents on the East Pacific Rise will also be conducted on an on-going basis.

Vessel Photos and Line Drawings

- * KA'IMIMOANA casting off the last line as it departs for its first cruise (79k)
- * KA'IMIMOANA Departing Seattle, WA, on first cruise (38k)
- * Inboard Profile (37k)
- * Deck Plan: Navigation Bridge (9k)

- * Deck Plan: Upper Deck (38k)
- * Deck Plan: Forcastle Deck (42k)
- * Deck Plan: Main Deck (35k)
- * Deck Plan: Lower Platform (27k)
- * Deck Plan: Hold (16k)

[Image]

Ship Specifications

LAUNCHED: 1988	HULL: Welded steel/ice strengthened
DELIVERED: 1989	DISPLACEMENT: 2,300 tons
COMMISSIONED: May 1996	GROSS TONNAGE: 1,522
CALL LETTERS: WTEU	NET TONNAGE: 1,034
	LENGTH (LOA): 224 ft. (68.3 m)
BUILDER: Halter Marine	BREADTH (moulded): 43 ft. (13.1 m)
Moss Point, MS	DRAFT, MAXIMUM: 15 ft. (4.6 m)
HOME PORT: Honolulu, HI	
CRUISING SPEED: 10.5 knots	RANGE: 8,000 nmi
POWER: 1,600 SHP	FUEL TYPE: #2 diesel
FUEL CAPACITY: 116,000 gal.	FUEL CONSUMPTION: 35/gal/hr/generator
ENDURANCE: 30 days	ENDURANCE CONSTRAINT: Stability

Habitability

BERTHING	FOOD-SERVICE SEATING
CAPACITY	
Single staterooms: 21	Forward Mess: 8
Double staterooms: 6	Aft Mess: 16
Total bunks: 33	

[Image]

Scientific Laboratory Facilities

Lab Space: 950 sq. ft.

Complement

Commissioned officers: 5	Licensed engineers: 3
(Including 1 USPHS Officer)	
Crew: 13	Scientists: 12

Medical Facilities

Medical Treatment Room with one bunk; one USPHS medical technician.

Electronics

COMMUNICATIONS	
VHF/FM transceivers	HF transceivers
Portable emergency transceiver	Weather facsimile receiver
Emergency radio auto alarm	SITOR/PACKET/RTTY modems

EPIRB's	INMARSAT standard A system
NAVTEX receivers	INMARSAT standard C system
Cellular Telephone	High speed/multi-baud rate modems
Secure Telephone	AFARTS receiver
ACOUSTICS	
Deep Water Echo Sounder	Shallow water echo sounder
Doppler Speed Log	
NAVIGATION	
Radars (X- and S-band)	Gyrocompass
LORAN C receivers	C/A code, DGPS receivers
Radio Direction finder	Acoustic Navigation (short baseline)
SATNAV	Omega
SCIENTIFIC EQUIPMENT	
CTD system	XBT system
Shipboard Environmental Acquisition System (SEAS)	

[Image]

Data Acquisition and Processing System

The KA`IMIMOANA is outfitted with an upgraded oceanographic system. This system is referred to as the Scientific Computer System (SCS). The SCS consists of two networked DEC Alpha computer systems that provide both data acquisition and data processing functions. One Alpha is dedicated to acquire, log, and display data in real-time, as well as perform real-time data quality assurance functions. The second Alpha is dedicated to shipboard scientists for data analysis and their research.

[Image]

KA`IMIMOANA's Schedule

KA`IMIMOANA's E-mail address is: Postmaster.Kaimimoana@noaa.gov

KA`IMIMOANA's Mail address is:

NOAA Ship KA`IMIMOANA
No. 1 Sand Island Road
Honolulu, HI 96819-2222

KA`IMIMOANA's telephone numbers in Honolulu are:

808-471-7538, 7539, 7534, 7536
808-471-7537, CO
808-471-7535, FAX

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Inquires and Comments

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