

NOAA Ship *Fairweather*



NOAA Ship *Fairweather* in the Gulf of Alaska with namesake Mt. Fairweather.

Hull Number	S220
Call Sign	WTEB
Home Port	
	Ketchikan, AK
Marine Operations Center	
	Pacific (MOC-P)
Port Office	
	Ketchikan, AK
Regular Area of Operations	
	Pacific
General Classification	
	Hydrographic Survey Vessel
Mailing Address	
	NOAA Ship Fairweather Marine Operations Center, Pacific 2002 SE Marine Science Dr.
	NOAA Ship Fairweather 1010 Stedman Street Ketchikan, AK 99901

Contact Information

IN PORT	AT SEA
Cellular	VoIP
907-254-2842 (Ship)	301-713-7779
907-254-2836(CO)	Iridium
907-254-2837 (XO)	808-659-0054
907-254-2839 (OOD)	001-8816-7631-0054
907-617-4106 (EOW)	
Land Line (Home Port)	Inmarsat Mini-M:
541-867-8785 (VC)	
541-867-8786 (VC)	Fax or E-Fax
206-260-1400 (Fax)	
	Inmarsat B
Ship's Email	011-804-336-990-710 (Voice)
Noaa.Ship.fairweather@noaa.gov	011-870-336-9910-711 (Data)

Design		Speed & Endurance	
Designer:	Maritime Administration	Emergency Speed (KTS):	13.4
Builder:	Aerojet-General Shipyards	Cruising Speed (KTS):	12.5
Launched:	March 15 th , 1967	Range (nm):	8640
Delivered:	January 1968	Endurance (days):	30
Commissioned:	April 10, 1968	Endurance Constraint:	Food/Stores
Length (LOA - ft.):	231	Compliment - Maximum	
Breadth (moulded - ft.):	42	Commissioned Officers	12
Draft, Maximum (ft.):	18.5	Engineers, Licensed	4
Depth to Main Deck (ft.):	8	Engineer, Unlicensed	7
Hull Description:	Welded steel/ice strengthened	Deck	13
Displacement:	1,800 tons	Survey	9
Berthing		Stewards	4
Single Staterooms:	25	Electronic Technicians	1
Double Staterooms:	16	USPHS Medical Officer	0
Other Staterooms:	0	Total Crew	51
Total Berths:	57	Scientists	6

Medical Facilities:	Food Service Seating Capacity	
One medical treatment room containing one berth for patients. Emergency and first-aid equipment aboard, administered by designated vessel personnel. USPHS medical officer available upon request and availability of officer.	Mess Room:	37

Navigational Equipment (Ship's Use)	Type (Make/Model/Amount/Location)
Radars (X and S Band)	Furuno, FAR/FR-2805/ 2/Bridge
GPS	Northstar/ 951/952/ 1/Bridge
Gyro Compass	SGB/ Meridian/ 2/Athwart ship passageway
Deepwater and Shallow Navigational echosounders	Furuno/ FE-700/ 1/Bridge
ECDIS	Transas/1/Bridge

Navigational Equipment (Access to onboard Scientists)	Type (Make/Model/Amount/Location)
GPS	None
Gyro Compass	None
Deepwater and Shallow Navigational echosounders	None
ECDIS	None
Charting Program with Ship's Position	None

Laboratory Spaces and other Scientific Spaces			
Type	Location	ft.²	Description: (Available Services and/or Connections, counter space, etc.)
Wet Lab	Aft most lab	240	Only counter space available to scientists, fresh water sink
Dive Lab	Just Aft of mess Deck	220	Counter space, part of a computer rack.
Electronics/Computer Lab	Just Forward of the mess	140	Data Plot 2: Used for crew computers
Electronics/Computer Lab	Just Aft of the Bridge	342	Data Plot 1: Used for hydrographic mission. Not available for scientist use.

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	Seabird
Dive Team Equipped	If all divers are available
Multibeam Equipped for Hydrographic Surveys	Reson 7125 (on Launches), Reson 8160 (on ship)
Scientific Computer System Equipped	

DATA COLLECTED BY THE SHIP'S SCIENTIFIC COMPUTER SYSTEM (SCS) IN THE STANDARD CONFIGURATION			
Description	Units	Data Source	
BWR - Bearing and Distance to WPT (Rhumb Line)	XXX	XXX	
GLL - Geographic Position (Lat/Lon)	DM.M	GP150	
HDT - Heading (True)	DMS	SG Brown Meridian	
OSD - Own Ship Data (Ship course & speed)			
OSD - Own Ship Data (Ship course & speed)			
RMC - Recommended Min Nav Info RMC Tags		GP150	
VWR - Relative wind speed and angle			

DECK EQUIPMENT:

Winch – (A-Frame)		Winch (J-Frame)	
Quantity:	1	Quantity:	1
Manufacturer:	DWS International Inc.	Manufacturer:	Markey
Model:	5050 EHI	Model:	COM-15V
Drive:	Electro-hydraulic	Drive:	Electro-hydraulic
Max. Pull (lbs):		Max. Pull (lbs):	1,869
Max. Depth (m)		Max. Depth (m)	
Drum Capacity:		Drum Capacity:	
Type of Cable Installed:		Type of Cable Installed:	0.375
Length of Cable on the drum (m)	960	Length of Cable on the drum (m)	4000
Location:	Boat Deck	Location:	Fantail, Starboard side

Crane, Telescopic Boom		Crane (Fixed Length)	
Quantity:	2	Quantity:	1
Manufacturer:	Skagit	Manufacturer:	Skagit
Model:		Model:	
Boom Length (ft):	25	Boom Length (ft):	40
Lifting Cap. (lbs):	1,500 extended	Lifting Cap. (lbs):	5,000
Location:	Foredeck, Port and Starboard	Location:	Boat deck

A Frame		J Frame	
Quantity:	1	Quantity:	1
Type:	Movable	Type:	Movable
Clearance over the side (ft):	9	Clearance over the side (ft):	4
Horizontal Clearance (ft):		Horizontal Clearance (ft):	
Safe Working Load (lbs)	8,000	Safe Working Load (lbs)	8,000
Location:	Center fantail	Location:	Fantail, Port side

Anchor - Bow	
Quantity	2
Type	Stockless
Weight (lbs)	3000
Port Anchor Chain Length (fathoms)	165
Starboard Anchor Chain Length (fathoms)	165

Boat Davit (Make/Model)		Boat Davit (Make/Model)	
Quantity:	4	Quantity:	2
Manufacturer:	VESTDAVIT	Manufacturer:	VESTDAVIT
Hoisting Capacity		Hoisting Capacity	6080
Location	Boat Deck- Port and Starboard	Location	"E" Deck- Port and Starboard
Boat type used	Survey Launch	Boat type used	FRB and Ambar

BOATS (Normally Equipped)				
	Type	Horsepower	Length Over All (Ft)	Max. Persons
1	Survey Launch	500	28	9 rough, 13 calm
		Reson 7125		
2	Rigid Hull Inflatable Boat (RHIB)	315	23	5 rough, 7 calm
3	Rescue Boat (SOLAS Approved)	300	23	4 rough, 6 calm
4	Skiff	168	18	2 rough, 4 calm

Additional Capabilities (not previously stated)	
Type	Description
Main Engines	Two GM EMD V12 645 1500 HP Each / 3000 TSHP
Ship Generators	Two Detroit Series 60 MTU's 321 KW, One Volvo Peta 340KW
Bow Thruster	Detroit 8V/71
E-Gen	Detroit 4 / 71 75KW