

NOAA Ship *Oscar Dyson*

	Hull Number	R224
	Call Sign	WTPEP
	Home Port	
		Kodiak, AK
	Marine Operations Center	
		Pacific (MOC-P)
	Port Office	
		Kodiak, AK
	Regular Area of Operations	
		Pacific
	General Classification	
		Fishery Survey Vessel
	Mailing Address	
	NOAA Ship <i>Oscar Dyson</i> Marine Operations Center, Pacific 2002 SE Marine Science Dr. Newport, OR 97365	

Contact Information	
IN PORT	AT SEA
Cellular	VoIP
(Ship)	301-713-7778
206-403-8433 (CO)	Iridium
206-295-0775 (XO)	808-659-0050
206-295-0550 (OOD)	
(EOW)	
Land Line (Home Port)	Inmarsat Mini-M:
907-486-0326 (VC)	
907-486-0460 (VC)	Fax or E-Fax
	866-775-7098 (Fax)
	Inmarsat B
Ship's Email	011-870-336-995-920 (Voice)
Noaa.Ship.Oscar.Dyson@noaa.gov	011-870-336-995-921 (Fax)

Design		Speed & Endurance	
Designer:	Halter Marine	Emergency Speed (KTS):	14
Builder:	VT Halter Marine, Inc., Moss Point, MS	Cruising Speed (KTS):	12
Launched:	October 17, 03	Range (nm):	12,000
Delivered:	August 1, 2004	Endurance (days):	40
Commissioned:	May 28, 2005	Endurance Constraint:	Food
Length (LOA - ft.):	208.6	Compliment – Maximum	
Breadth (moulded - ft.):	49.2	Commissioned Officers/Mates	5
Draft, Maximum (ft.):	19.4 Center Board Down: 30.3	Engineers, Licensed	4
Depth to Main Deck (ft.):		Engineer, Unlicensed	3
Hull Description:	Welded steel /ice strengthened	Deck	7
Displacement:	2479 Met. Tons	Survey	2
Medical Facilities:		Stewards	2
One medical treatment room containing one berth for patients. Emergency and first-aid equipment aboard, administered by designated vessel personnel.		Electronic Technicians	1
		USPHS Medical Officer	0
		Total Crew	24
		Scientists	15
Berthing			
		Single Staterooms:	3
		Double Staterooms:	18
		Total Berths:	39
Food Service Seating Capacity			
		Mess Room:	32

Navi. Equipment (Ship's Use)	Type (Make/Model/Amount/Location)
Radars (X and S Band)	2 Sperry Marine / Bridge Master / Bridge
GPS and DGPS	Two Simrad MX512 Bridge
Gyro Compass	Two / Sperry Marine MK 37 VT / Bridge
Deepwater and Shallow Navigational echosounders	Furuno 5200, Bridge
ECDIS	Sperry Marine Vision 2100

Navigation Equipment (Access to onboard Scientists)	Type (Make/Model/Amount/Location)
GPS and DGPS	SCS Feed from Bridge
Gyro Compass	SCS Feed from Bridge
Deepwater and Shallow Navigational echosounders	
ECDIS	
Charting Program with Ship's Position	Globe

Laboratory Spaces and other Scientific Spaces			
Type	Location	ft.²	Description: (Available Services and/or Connections, counter space, etc.)
Wet Lab	Main Deck; Starboard (1-58-0)		Continuous Underway Fish Egg Sampler (CUFES), Variable speed conveyor sorting table, Fish/biological waste disposal chute, Saltwater washdown system, Remote PC hookup, Second sorting table, So-Low C85-9 Ultra-Low temperature freezer, 2 freshwater sinks, Scientific Uncontaminated Seawater line, Emergency eyewash station/shower, Scientific walk-in freezer, Labconco lab hood/Hazardous material storage, 2 ship's service pneumatic air fitting
Dry Lab	Main Deck; Starboard (1-31-1)		Four ship's service pneumatic air fittings, Remote PC hookups, Scientific Uncontaminated Seawater line, External Bathythermograph workstation, Sea-Bird CTD/Seacat workstation, Freshwater sink, Emergency eyewash station
Climate Controlled Space	In wet lab/scientific ready room		Controllable built-in chiller system, Scientific Uncontaminated Seawater line, Freshwater faucet
Electronics/Computer Lab	Main Deck; port (1-38-2)		Scientific Computer System (SCS) server, OSCAR DYSON network domain controllers, Netscape E-mail console, Canon color copier, Simrad EK-60/ER-60 Fish-finder workstations, 5 PC workstations, Simrad ME-70 Multibeam workstation, RD Instruments Ocean Surveyor Acoustic Doppler Current Profiler, Applanix Position and Orientation System for Marine Vessels, Remote PC hookups, Simrad MX-512 GPS receiver
Bio Lab	Main Deck; Starboard (1-47-0)		"Chem Lab" includes Turner Designs 10-AU Fluorometer, Sea-Bird SBE 45 Micro Thermosalinograph, Scientific Uncontaminated Seawater/Pump control, Freshwater sink, Scotsman Ice Maker, Small lab refrigerator, Labconco Lab Hood/Hazmat storage, Emergency eyewash station/shower, 4 ship's service pneumatic air fittings, Remote PC hookups
Hydro Lab	Main Deck, Starboard (1-31-1)		CTD Rosette storage area, Stainless steel workbenches w/6-in. vise, Remote PC hookups

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)	Centerboard, acoustics lab; RD Instruments Ocean Surveyor
Atmospheric CO2 Data Collection	pCO2 System
Conductivity, Temp., Depth (CTD) With Water Samples	Hydrographic lab; Niskin bottles, SeaBird, Wetlabs
Expendable BathyThermographs (XBT) Capable	Dry lab
Mooring Deployment/Recovery Capable	Cranes
Multibeam Equipped for Biological Surveys	Acoustics lab and hull mounted; Simrad ME-70 Downward-Facing Multi-Beam Sonar
Plankton Gear Deployment	Hero deck; A-Frame; bongo net
Scientific Computer System Equipped	Ship-wide
Trawl Fishing Capable	Fantail, Trawl winches, 3 rd wire winch
Trawl Sensor Equipped	Simrad FS-70 3rd Wire Netsounder, temp/depth sensors, door spread sensors, Simrad ITI Trawl Eye
Thermosalinograph	SeaBird, wet lab
Dive Team Equipped	CompAir Mako Compressor
Multibeam Equipped for Hydrographic Surveys	Simrad ME-70 Downward-Facing Multi-Beam Sonar
Conductivity, Temp., Depth (CTD) Without Water Samples	Hydrographic lab, SeaBird
Other	Simrad EK-60 GPT Multi-Purpose Transceivers @ 18,38,70,120, & 200 KHz

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

Description	Units	Data Source
Choose an item.	XXX	XXXX
DPT - Depth of Water with transducer offset	m	
GLL - Geographic Position (Lat/Lon)	Deg.	Simrad MX512
HDG - Heading (Deviation and Variation)	Deg.	
HDT - Heading (True)	Deg.	Gyro
HFB - Trawl Headrope to Footrope and Bottom	m	Simrad temp/depth sensors
ITS - Trawl Door Spread	m	Simrad door spread sensors
MTW - Mean Temp. for Water	Deg. C	Furuno through hull sensors, Simrad temp sensors
MWP - Mean Wind - Port Sensor (Direction)	KTS	RM Young sensors
OSD - Own Ship Data (Ship course & speed)		GPS
RPM - Engine Shaft Revolutions	rpm	Engine shaft sensors
ROT - Rate of Turn		Rate of turn Gyro
TDS - Trawl Door Spread Distance	m	Simrad door spread sensors
TFI - Trawl Filling Indicator	n/a	Simrad trawl eyes
TPR - Trawl Position Relative Vessel	Deg.	Simrad net sensors and hull mounted transducers
TPT - Trawl Position True	Deg.	Simrad net sensors and hull mounted transducers
ZDA - Time and Date (UTC. d. m, yr, TZ)	UTC. D. m. yr, TZ	GPS/Time Server

DECK EQUIPMENT:

Winch – Hydrographic Winch		Winch – Trawl Winches (Stern)	
Quantity:	2	Quantity:	2
Manufacturer:	Rapp Hydema	Manufacturer:	Rapp Hydema
Model:	HW 500	Model:	TWS 10040
Drive:	4.7 I/Rev	Drive:	36.36 I/Rev
Max. Pull (lbs.):		Max. Pull (lbs.):	
Max. Depth (m)		Max. Depth (m)	
Drum Capacity:	1000 mm x 905 mm	Drum Capacity:	1780 mm x 1820 mm
Type of Cable Installed:	EM 9.5 mm	Type of Cable Installed:	1665 mm
Length of Cable on the drum (m)	3600	Length of Cable on the drum (m)	4300
Location:	01 Deck, Starboard	Location:	Trawl Winch Room; Starboard/Port

Winch – Oceanographic Winch		Winch – Gilson	
Quantity:	1	Quantity:	1
Manufacturer:	Rapp Hydema	Manufacturer:	Rapp Hydema
Model:	RWS 2326 S	Model:	GW-4000B
Drive:	8.30 I/Rev	Drive:	
Max. Pull (lbs.):		Max. Pull (lbs.):	
Max. Depth (m)		Max. Depth (m)	
Drum Capacity:	1750 mm x 1370 mm	Drum Capacity:	990 mm x 400 mm
Type of Cable Installed:	Rope, EM 17 mm, fiber optic	Type of Cable Installed:	Spectra Rope 796 mm
Length of Cable on the drum (m)	5000	Length of Cable on the drum (m)	
Location:	Oceanographic Winch Room	Location:	01 Deck, Aft

Crane, Telescopic Boom		Crane, Fixed Boom	
Quantity:	2	Quantity:	1
Manufacturer:	Appleton	Manufacturer:	Appleton
Model:	EB 70-60-25S	Model:	SB10-23
Boom Length (ft.):	60	Boom Length (ft.):	23
Lifting Cap. (lbs.):	6250	Lifting Cap. (lbs.):	1000
Location:	Aft (Port/Starboard)	Location:	Bow

A Frame (Starboard)		A Frame (Aft)	
Quantity:	1	Quantity:	1
Type:	Rapp Hydema	Type:	Rapp Hydema
Clearance over the side (ft.):		Clearance over the side (ft.):	
Horizontal Clearance (ft.):		Horizontal Clearance (ft.):	
Safe Working Load (lbs.)	8050	Safe Working Load (lbs.)	
Location:	01 Deck Starboard	Location:	Aft/Fantail

Anchor - Bow		Anchor -Stern	
Quantity	2	Quantity	1
Type	Stockless	Type	Dansforth
Weight (lbs.)	5000	Weight (lbs.)	2000
Port Anchor Chain Length (fathoms)	150	Anchor Chain/Cable Length (fathoms)	n/a
Starboard Anchor Chain Length (fathoms)	165		

BOATS (Normally Equipped)				
	Type	Horsepower	Length Over All (ft.)	Max. Persons
1	Rescue Boat (SOLAS Approved)	256	22	6
		FRB- VHS radio		
2	Survey Launch	260	27	8
		Work boat- Furuno Plotter with Radar, GPS, Furuno Plotter with Depth Sounder, VHS radio with position and time feed		

Additional Capabilities (not previously stated)	
Type	Description
None Listed	