

## **Ship specifications – *RRS James Cook***

NERC awarded a contract to Flekkefjord Slipp & Maskinfabrikk AS, Norway to build RRS James Cook. Delivery of the vessel, a replacement for *RRS Charles Darwin*, took place in August 2006.

The RRS James Cook operates worldwide from the tropics to the edge of the ice sheets, enabling leading-edge multidisciplinary research.

The vessel can undertake both continental margin and deep ocean projects. The ship's design enables it to work in higher sea states than NERC's existing dedicated research vessels. It is more manoeuvrable, has more scientific berths and has advanced technical facilities.

## Common Marine Inspection Document - Vessel Particulars

	Requested Information
<b>Name of vessel</b>	JAMES COOK
<b>IMO number</b>	9338242
<b>Official number</b>	912121
<b>Type of vessel</b>	RESEARCH VESSEL
<i>(include details of any special features)</i>	
<b>Previous name(s)</b>	N/A
<b>Vessel Owner</b>	NATURAL ENVIRONMENT RESEARCH COUNCIL
Address	POLARIS HOUSE NORTH STAR AVENUE SWINDON. SN2 IEU
Telephone	
Fax	
e-mail	
<b>Vessel operator</b>	NMF-SEA SYSTEMS
Name	
Address	NATIONAL OCEANOGRAPHY CENTRE EUROPEAN WAY SOUTHAMPTON. SO14 3ZH
Telephone	+44 (0)2380 596286
Fax	+44 (0)2380 635130
e-mail	rxp@noc.ac.uk
Company IMO Database number	0010877
<b>Date current vessel operator assumed responsibility for vessel</b>	28 AUGUST 2006
<b>Manning agent</b>	N/A
Address	
Telephone	
Fax	
e-mail	
<b>Flag</b>	UNITED KINGDOM
<i>(if the vessel has changed flag within the past six months, report date of change and previous flag in 'Additional comments')</i>	
<b>Port of registry</b>	LONDON
<b>Classification society</b> <i>(if vessel has changed class within the past six months, report date of change and previous classification in 'Additional comments')</i>	LLOYDS REGISTER LLOYDS +100 A1 Ice Class C1 +LMC, UMS, DP(AM), "Research Vessel"
<b>Class ID number</b>	9338242
<b>Additional comments</b> <i>(include any additional specialised equipment vessel has on board)</i>	See additional information below on winches and handling systems
Hull type	STEEL
LOA	89.20m
Beam	18.60m

Maximum draft	<b>6.315m</b>
Deadweight tonnage	<b>2463T</b>
Gross tonnage	<b>5401T</b>
Main engine horsepower and manufacturer	<b>7040kW - Wartsila</b>
Number of engines	<b>DIESEL ELECTRIC</b>
Number and type of main propellers	<b>2 x five-bladed inward turning</b>
Number of rudders	<b>2 x hi-lift</b>
Number of generators	<b>4 X Wartsila 9L20 2 x WESTINGHOUSE MOTORS</b>
Kort nozzles fitted?	<b>NO</b>
Bow thrusters fitted (number and type)?	<b>BRUNVOLL – TUNNEL 1200Kw BRUNVOLL – AZIMUTH 1350kW</b>
Stern thrusters fitted (number and type)?	<b>BRUNVOLL – TUNNEL 600kW BRUNVOLL – TUNNEL 800kW</b>
Other propulsions fitted (number and type)?	<b>N/A</b>
Rated bollard pull (as applicable)	<b>N/A</b>
Type of bunkers	<b>MARINE GAS OIL</b>
Bunker capacity	<b>913m<sup>3</sup> approx</b>
Daily fuel consumption	<b>9m<sup>3</sup> on 2 generators</b>
Potable water capacity	<b>204m<sup>3</sup> approx</b>
Can vessel make potable water?	<b>YES</b>
Inmarsat number (MMSI)	<b>235010700</b>
Call sign	<b>MLRM6</b>
Name of the vessel's P&I club	<b>BRITISH MARINE</b>
Name and contact details for designated person ashore (DPA)	<b>GERAINT WEST HEAD NMF-SEA SYSTEMS +44 (0)2380 596147 geraint.west@noc.ac.uk</b>

## SCIENTIFIC MACHINERY AND HANDLING SYSTEMS

DEEP WATER CORING TRACTION SYSTEM SWL 30 T	Cable length: 8000m Diameter: 30 mm Minimum Breaking Load of the cable (MBL): 75 tonnes
FIBRE OPTIC DEEP TOW TRACTION SYSTEM SWL 11 T	Cable length: 10,000m Diameter: 17.3mm MBL: 18.4 t <i>Note: Deep Water Coring and the Optical Fibre Deep Tow Cable use same traction winch.</i>
TRAWL TRACTION WINCH – TAPERED SWL 12.5T @ inboard end, 11.5 T @ outboard end	Wire rope length: 15,000m Outer length: 8,300m Diameter: 14.5mm MBL: 13 T Middle length: 4,350m Diameter: 16.5mm MBL: 18.1 T Inner length: 2,350m Diameter: 18mm MBL: 20.9 T
CTD TRACTION WINCH – FIBRE OPTIC CABLE SWL 5 T	Rope Length: 8000m Diameter: 11.43mm MBL 8.39 T
DIRECT PULL CORING WIRE – SWL 11T	Wire length: 7,000m Diameter 16.5mm MBL: 18.56T
AFT 'A' FRAME	SWL 20t static, 10t luffing Outreach 3.0m Inboard reach 3.8m Height above deck 5.8m Width 6.0m Pennant winch 1t SWL
MIDSHIP 'A' FRAME	SWL 15t static, 8t luffing Outreach 2.8m Inboard reach 1.8m Height above deck 3.9m Pennant winches 2 x 2t SWL