

NERC Marine Facilities Funding Model

- Changed at start of 2001 in response to falling ship demand.
- The new funding model redesigned to:
 - Reduce the overall cost to scientists for days at sea
 - Allow NERC to test the 'actual' science demand for ship-time.
- Features of the new funding model:
 - Capital funded direct from NERC
 - Infrastructure
 - Scientists who have secured funding for science of international quality (i.e. equivalent to a NERC alpha 3 grade) can bid 'free at the point of use' access to:
 - 450 500 operational sea days a year on the RRS Discovery and RRS Charles Darwin
 - 60-days a year on the RRS James Clark Ross
 - UK Ocean Research Service (UKORS) to manage NERC's National Marine Equipment Pool
 - Superstructure scientists are responsible for covering the UKORS technician and equipment support costs.



RSU Ship Utilisation

Following the introduction of new funding model:
All available NERC science days allocated in 2001, 2002, and 2003
Increase of 50-60% compared with 1998-2000
Demand increased by ca. 100% (compared with that in the period 1998-2000)

Demand & Utilisation of RSU Ships



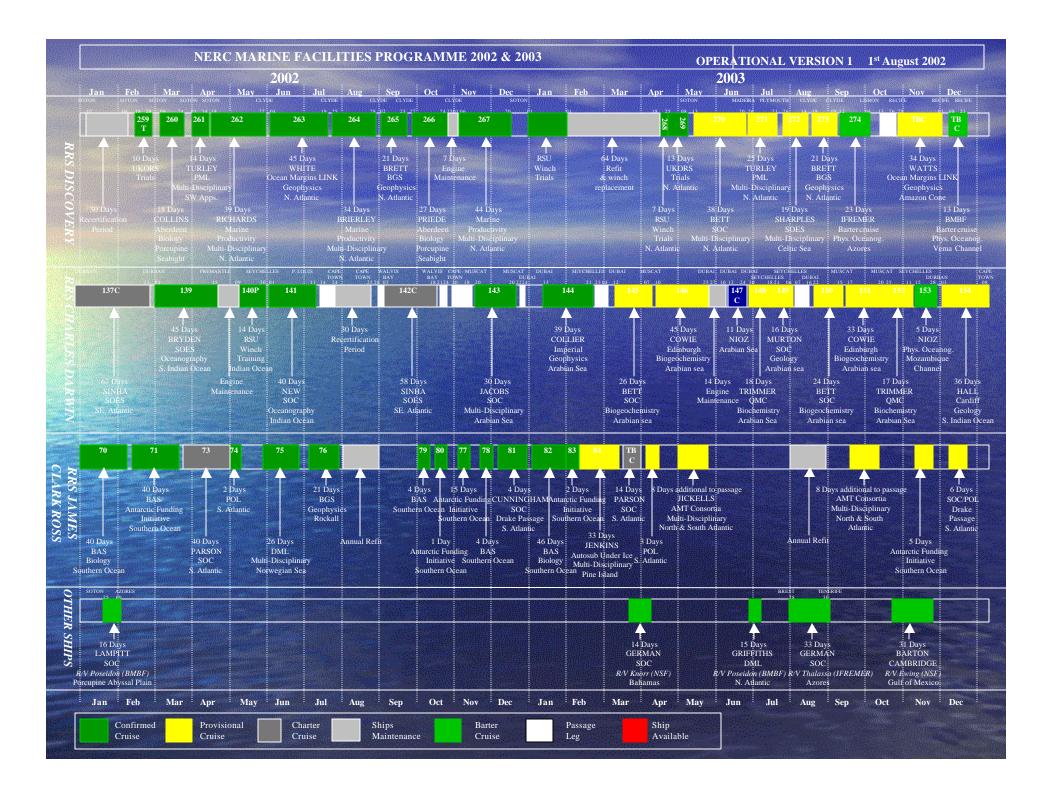
- Total demand for NERC days at sea
- NERC days at sea
- --- Charter days at sea
- Days not in use
- Other (incl. Mob/demob, recertification, refit)



Up-date on the 2001 MFP

- Following 9/11 attack, NERC postponed a 30-day cruise on the *RRS Charles Darwin* scheduled to work to/from Muscat, Oman.
- However it was decided to keep the ship in the Indian Ocean and she was moved into the Southern Indian Ocean for the remainder of the year.





2002 MFP

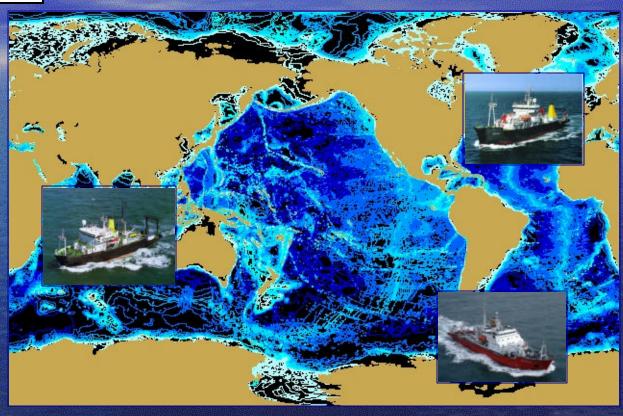
- NERC has continued to fully utilize all available sea days:
 - RRS Discovery North Atlantic
 - RRS Charles Darwin Indian Ocean
 - RRS James Clark Ross (ca. 60 days) for two summer cruises in the North Atlantic
- R/V Poseidon OpportunisticBarter
 - to recover & re-deploy moorings on the Porcupine Abyssal Plain
 - Unfortunately cancelled due to poor weather

Cruise No.	Institution	PI PI	Discipline	Days at Sea
CD137C	ExxonMobil		Geophysics	67
CD 139	SOES	Bryden	Oceanography	45
CD141	SOC	New	Oceanography	40
CD142C	Active EM		Geophysics	58
CD143	SOC	Jacobs	Multi	30
				240
Cruise No.	Institution	PI	Discipline	Days at Sea
D259T	UKORS	West	Trials	10
D260	Aberdeen	Collins	Biology	18
D261	PML	Turley	Multi	14
D262	MARPROD	Richards	Multi	39
D263	Cambridge	White	Geophysics	45
D264	MARPROD	Brierley	Multi	34
D265	BGS	Brett	Geophysics	21
D266	Aberdeen	Priede	Biology	27
D267	MARPROD	Allen	Multi	44
				252



2003 MFP

- All available sea days utilised:
 - RRS DiscoveryNorthAtlantic
 - RRS CharlesDarwin -Indian Ocean
 - RRS James
 Clark Ross –
 Autosub Under
 Ice and
 Atlantic
 Meridional
 Transect



6 (TBC) Barter cruises provisionally programmed





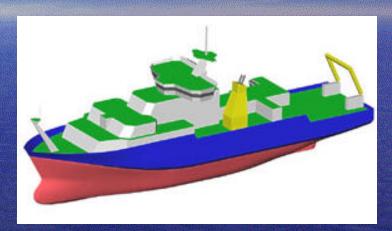
- Increased (stable) investment in the NMEP
 - ca. £0.5M pa from NERC
 - ca. £0.2M pa from charter/hire.
- New scientific winch for the RRS Discovery
 - ca.£3M
 - Will be fitted in February-April 2003.
- New Seismic Airgun Suite
 - ca.£300k)
 - Trialled in early 2002
 - Used in June-July for a 45-day geophysics cruise in the N. Atlantic.
- Jason II derivative ROV
 - Trials first half of 2003
 - Operational on IFREMER barter cruise late 2003

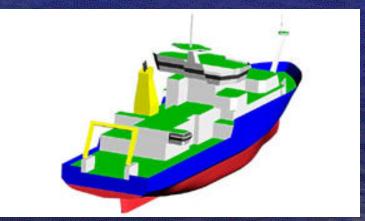




Darwin Replacement

- RRS Charles Darwin will reach the end of its scientifically useful life in early-2006
- Project Management Board set up to oversee provision of a replacement ship
- NERC Council approved science case in late 2001, since been submitted to the UK Government as part of a NERC bid to the 2002 Spending Review.
- Total cost projected to be £35M:
 ca.£10M from NERC baseline.
- Final decision on the funding in November 2002.







Projected ship programme for 2004

- Currently anticipate:
 - RRS Discovery primarily N. Atlantic
 - RRS Charles Darwin return to UK for refit e. 2004, then primarily N. Atlantic
 - Depending on the science demand one may return to the S. Atlantic
 &/or S. Indian Ocean in the second half of 2004.
 - RRS James Clark Ross and RRS Ernest Shackleton, will operate in the Antarctic/Southern Ocean, Arctic Ocean and the Atlantic.
 - Majority of available NERC-funded time in 2004 will be allocated to two cruises (one in the Antarctic & one in the Arctic) for the 'Autosub-Under-Ice' thematic programme.



Marine Facilities Tripartite Group (MFTG)

- Currently examining opportunities to share a greater variety of its marine equipment (incl. smaller equipment & equipment spares) and calibration facilities.
- Anticipate RNIOZ joining this year and possibly Spain.

