

NOC OUTPUTS AND ACHIEVEMENTS 2018

OUR PEOPLE

500k invested in training and qualifications

84 staff nominated for peer-to-peer internal Values Awards

7.5% growth in annual staff numbers

Staff created new corporate Values and inaugural staff-recognition event



PAPERS & PUBLICATIONS



NERC Open Research Archive

403 items added to NORA

62% full text

45% gold open access

26k downloads

MILESTONES

British Oceanographic Data Centre **127k** available datasets

British Ocean Sediment Core Research Facility **3.7k** instrument hours

75k registered users

9m GEBCO map requests

1980m core analysed

107 visiting scientists

PROJECT FUNDING

Research Council UK projects:

# started	# underway	# awarded	# worth
116	394	23	£5.5m

Other key funding included:

£1.7m TERIFIC project, H2020 funded	£1.1m CUSTARD project, NERC grant
£643k IMMERSE project, H2020 funded	£430k APEAR project, NERC grant

KEY EVENTS & VISITS

145 events supported

14.2k delegates

Commonwealth Heads of Government Marine Science Event
 Dept. PM British Virgin Islands visit
 UK Foreign Secretary visit
 UK Research Office Annual International Conference
 CTBTO International Conference
 Department of Trade and Industry Conference
 Sea Level Rise Conference
 Marine Autonomy and Technology Showcase
 Microfluidics Conference in asc. Royal Society of Chemistry

ENGAGEMENT

57 stories shared on NOC website	1.9k public visited on Open Day Southampton
1608 recorded items of media coverage	1.1k public attended Marine Life Talks

WEBSITE	159k users	544k page views	NOCMAIL	37k subscriptions	21k link clicks
twitter	1.9k new followers	3.4k likes	YouTube	285 new subscribers	215 days of watched video

KEY SCIENCE ENDEAVOURS

Observing Oceans from Space

For the first time ocean surface condition changes, associated with hurricanes, were sensed using receivers in space.

Ocean triggers for El Niño

A new understanding of the timing and development of strong El Niño events was enabled by high-resolution global ocean model.

Reactive ocean modelling

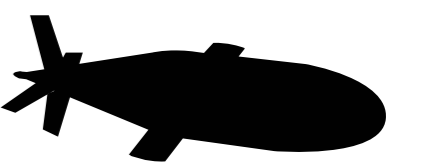
Emergency ocean model simulations of the Sanchi Oil Spill assessed the potential impact of local ocean circulation on the spread of pollutants.

Statistical flooding

A new link between processes in the open ocean and coastal sea-level was revealed through a new statistical method applied to tide gauge data.

TECHNOLOGICAL ADVANCES

Under-ice



Autosub Long Range completed first under-ice mission beneath the Filchner Ice Shelf in West Antarctica.

Industry partnership



ecoSUB, a new generation of micro Autonomous Underwater Vehicle, collected oceanographic data from 100m depths during successful sea trials.

NOC EXPEDITIONS

RRS *James Cook* expeditions included:

JC166

Greater Haig Fras Marine Conservation Zone

JC159

ORCHESTRA (Ocean Regulation of Climate through Heat and Carbon Sequestration and Transports)



RRS *Discovery* expeditions included:

DY094

The E-Tech element potential of submarine ferromanganese mineral deposits of the Rio Grande Rise

DY096

CUSTARD (Carbon Uptake and Seasonal Traits in Antarctic Remineralisation Depth)



Captain Antonio Gatti, Master of the Royal Research Ship *Discovery*, was awarded the prestigious Merchant Navy Medal for Meritorious Service