



Australia and New Zealand form the Australia-New Zealand IODP Consortium (ANZIC), and the two countries have access to all IODP activities. This bulletin provides current news, job opportunities, scholarships and events relating to both national and international scientific communities.

For more information contact:

Website: [www.iodp.org.au](http://www.iodp.org.au)

Website: [www.drill.gns.cri.nz](http://www.drill.gns.cri.nz)

We encourage members to subscribe to *Scientific Drilling*, the multidisciplinary journal focused on bringing the latest science and news from the scientific drilling and related programs to the geosciences community. SD reports on the activities of both IODP and ICDP keeping you up to date on developments and opportunities in the programs.

<http://www.scientific-drilling.net/home.html>

## News from the ANZIC Office

This is the first newsletter for 2014, which will be a busy and exciting year for Australia and New Zealand in the new IODP, the Integrated Ocean Discovery Program, which started on 1 October last year. This year there will be four *JOIDES Resolution* expeditions, *Chikyu* will continue its Nankai Trough deep drilling, and the Europeans will provide a yet-to-be-decided alternative platform expedition. ANZIC expects to have at least eight scientists aboard in 2014, including Richard Arculus (ANU) as a co-chief scientist on the Izu-Bonin-Mariana Arc Origins Expedition 351.

ANZIC applications for 2015 scientific participation for *JOIDES Resolution* IODP Expedition 353 in the Bay of Bengal and Andaman Sea, and Expedition 354 in the Bengal Fan in the Northwest Pacific have now closed. Applications for two more *JOIDES Resolution* Indian Ocean expeditions should open in the next month or two: Arabian Sea Monsoon Expedition 355; and Indonesian Throughflow Expedition 356 on the Northwest Shelf, with Stephen Gallagher (University of Melbourne) being a co-chief scientist.

Many of the key Australian ANZIC stakeholders, the Chief Investigators and Principal Investigators on the ARC/LIEF grant, will attend an initial planning and discussion meeting at ANU on Thursday 6 February. The new ANZIC Governing Council will meet for the first time on Friday 7 February, under the ongoing Chairmanship of Geoff Garrett. We are also in the process of setting up a new ANZIC Science Committee, with official approval expected by the new Council on 7 February.

The ANZIC Annual Report for 2013 is now being printed, and will be presented at the meetings on 6 and 7 February. Soon thereafter it will be up on the ANZIC web site ([www.iodp.org.au](http://www.iodp.org.au)) for your perusal. An extensive ANZIC Final Report for the first phase of IODP (Integrated Ocean Drilling Program) is being worked on at present and should be available by the middle of this year. The 16<sup>th</sup> issue of *Scientific Drilling* has just been produced and contains an excellent summary of the Mediterranean Outflow Expedition 339, covering 6 million years of varied outflow history and its effects on sedimentation. Site U1385 was drilled on the same expedition and covers the last 1.5 million years, providing high-fidelity records of millennial-scale climate variability. Craig Sloss (QUT) was ANZIC's shipboard participant.

### *News from the ANZIC Office continued...*

Neville Exon has written an article for the next issue of *PESA News Resources* on IODP and ANZIC's part in it, with particular emphasis on *JOIDES Resolution* as it comes back into our region. The aim is to get the petroleum industry interested in IODP activities, and especially a newly conceived proposal (or proposals) to drill the black shales, representing global euxinic events and being potential source rocks, of the Great Australian Bight Cretaceous delta. This effort will be led by an Australian team headed by Peter McCabe, who is about to move to the Australian School of Petroleum of the University of Adelaide. The article has already been published on line in the Society of Petroleum Engineers of Australasia News (<http://spenewsaustralasia.org/>).

Again we draw your attention to the IODP Session at next year's Australian Earth Science Convention in Newcastle (7-10 July, entitled *Scientific Results of the Integrated Ocean Drilling Program (IODP)*). Please seriously consider presenting an oral or poster paper at the IODP session, and note the abstract closing date of 14th March. I would be grateful if you would let me (Neville Exon) know of your intention to present a paper and its topic as soon as you make that decision.

Neville Exon and Catherine Beasley



Position Title, Series, Grade: "Physical Science Administrator (Program Director)"  
AD-1301-04  
Vacancy Announcement: OCE-2014-0005  
Vacancy Category (Type): Science/Engineering/Education  
Location(s) (DIR/DIV): GEO/OCE/MGG  
Opening Date: 01/10/2014  
Closing Date: **01/31/2014**

NSF is looking for a highly qualified person who would like to become a permanent NSF Marine Geology and Geophysics Program Director in paleoclimate/oceanography (see link to jog advertisement below).

The closing date is rapidly approaching (Jan 31st) and NSF would like allow as many qualified paleoclimate scientists as possible to know this position is available. Please contact Barbara Ransom for more information ([bransom@nsf.gov](mailto:bransom@nsf.gov) – 703-292-7792 or on the weekend at 703-875-9654 or 703-220-6735 – leave a message and call back number if she does not pick up and she will get back to you directly).

If you are not interested and know others you think would be great NSF paleoclimate program officers, please forward the below message to them and have them contact or call Barbara Ransom or Bil Haq at NSF.

USAJOBS Link: <http://www.usajobs.gov/GetJob/ViewDetails/359030400>

# AT SEA

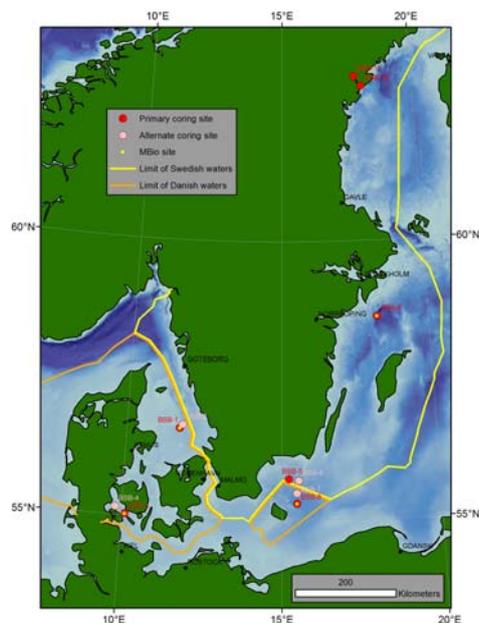
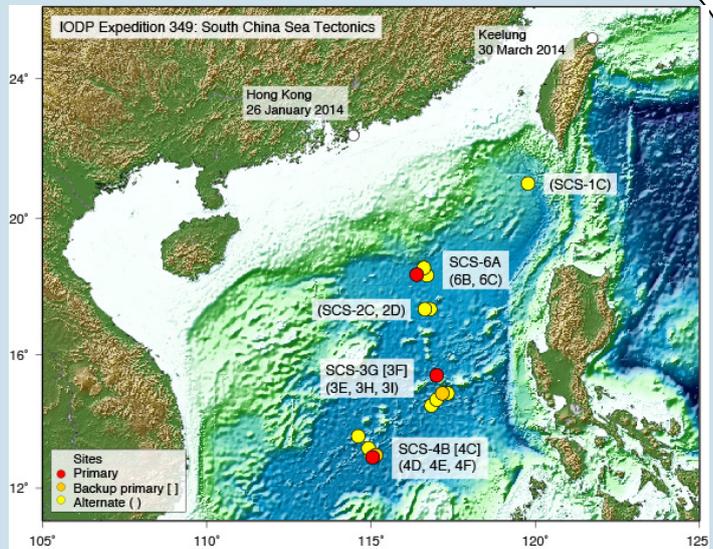
## Expedition 349: South China Sea Tectonics

The South China Sea (SCS) is situated at the junction of the Eurasian, Pacific, and Indo-Australian plates. It has undergone nearly a complete Wilson cycle despite its relatively small size and short evolutionary history, and it is a critical site linking some of the major western Pacific tectonic units. The opening of the SCS reveals complex patterns of continental margin breakup and basin formation.

The expedition launched from Hong Kong on the 28th January, 2014 carrying ANZIC member Kelsie Dadd of Macquarie University, sailing as part of the sedimentology team.

Follow the expedition's progress:

[http://iodp.tamu.edu/scienceops/expeditions/south\\_china\\_sea.html](http://iodp.tamu.edu/scienceops/expeditions/south_china_sea.html)



## Expedition 347: Baltic Sea Paleoenvironment

The on-shore science party for the Baltic Sea Paleoenvironment expedition has also commenced in January.

Sean Johnson of CODES at the University of Tasmania has joined the science party in Bremen, also as part of the sedimentology team.



Sean has found parallels in this expedition that will expand his current PhD thesis.

We wish both expeditioners fair seas and exciting finds.

## Chancellor Fellowships at the University of Edinburgh

These prestigious awards are aimed at early independent research career individuals of the highest potential who have begun to establish a reputation for the quality of their research at the forefront of their discipline, and who have a commitment to teaching and student support at university level. The awards are tenure track and for five years in the first instance.

**\*\*Note that the application deadline is Feb 7th, 2014, 17:00 GMT\*\*** For further information, and to apply, please see our [recruitment page](#). (<http://tinyurl.com/p2xf5en>, will open in new tab)

We welcome outstanding candidates in any area of the School of GeoSciences's research and teaching portfolio, but [identify here some strategic areas](#).

- The climate system and composition of the atmosphere in the Anthropocene. Candidates should complement the School's existing strengths in understanding the modern climate system (including climate change) or the composition of the modern atmosphere, or interactions between both.

For more information please contact Prof Gabi Hegerl ([gabi.hegerl@ed.ac.uk](mailto:gabi.hegerl@ed.ac.uk))

- Large-scale biogeochemical cycles in marine and aquatic systems. We seek applications from those with expertise in applying geochemical methods to understand large-scale geochemical cycles in one or more of ocean, coastal and fresh water systems in the present or recent past. It is envisioned that this appointee will complement the School's strength and analytical expertise in multi-collector and plasma mass spectrometry, stable isotope mass spectrometry and organic geochemistry.

For more information please contact Dr Raja Ganeshram ([r.ganeshram@ed.ac.uk](mailto:r.ganeshram@ed.ac.uk))

- Interdisciplinary Global Change Science. Within this general inter-disciplinary area we welcome candidates who can link research done within existing research groups in Global Change (e.g. Science of the atmosphere, climate system, ecology, cryosphere, oceans and land surface) with other research groups in the Schools of GeoSciences, Informatics or Mathematics. Candidates should have worked across research areas and with others to improve the scientific understanding of past, present and future changes in the Earth system.

For more information please contact Prof Simon Tett ([simon.tett@ed.ac.uk](mailto:simon.tett@ed.ac.uk))

Potential applicants are encouraged to view information about the School at <http://www.ed.ac.uk/schools-departments/geosciences/research/>



We would like to draw your attention to session **09e: Geological Constraints on Perturbations to the Global Carbon Cycle** at the upcoming Goldschmidt conference in Sacramento, June 8-13, 2014.

<http://goldschmidt.info/2014/index>

**Session description:** The geologic record offers opportunities to study how the global carbon cycle responds to perturbation. This session will focus on the two contrasting sides to this response -- the potentially future-relevant short-term changes in ocean chemistry and 'ocean acidification' associated with rapid CO<sub>2</sub> release, together with the long-term enhanced-saturation environment characteristic of enhanced CO<sub>2</sub>-silicate weathering. We invite geochemical proxy efforts to reconstruct changing ocean carbonate chemistry changes across key events and transitions, as well as the use of models and refinement of chronologies that enable improved estimated of rates of CO<sub>2</sub> release and subsequent removal.

Abstract submissions are accepted between January 1 and February 1, 2014. We hope to see many of you in Sacramento.

Sarah Greene, John Higgins and Bärbel Hönisch

