



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)

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## News from the ANZIC Office

As detailed in my general email message of 26th July, Leanne Armand from Macquarie University has agreed to take up the Program Scientist's position in September, with several weeks' overlap with Neville Exon before he steps back to an honorary position at ANU. Leanne has been the ANZIC representative on the ECORD Facility Board and the ANZIC Science Committee for several years, so she understands IODP and ANZIC very well. We welcome her appointment.

Neville Exon is delighted to let you all know that the ANZIC IODP book, *Exploring the Earth under the Sea: Australian and New Zealand achievements in the first phase of IODP Scientific Ocean Drilling, 2008-2013*, was handed over to ANU Press on 19th July. This labour of love started in 2015, and the result will be really good. Each individually written section will start on a new page, giving due acknowledgement to the many section authors. The basic reference at this stage is "Neville Exon (Editor): *Exploring the Earth under the Sea: Australian and New Zealand achievements in the first phase of IODP scientific ocean drilling, 2008-2013. Australian National University Press.*"

I am particularly pleased that we have beaten most other submissions for this year's deadline, which means we should see the book out well before the end of the year. ANU Press covers all the design and publication costs, and will own the digital rights to the book. We intend to buy 150 paperback copies, so that we have enough for key people inside and outside ANZIC.

Expedition 371 (Tasman Frontier Subduction Initiation and Paleogene Climate) sailed from Townsville on 30th July and will berth in Hobart in late September. The co-chief scientists are Rupert Sutherland from Victoria University, Wellington, and Jerry Dickens from Rice University in Texas. The other ANZIC scientific participants are Wanda Stratford, Kristina Pascher and Hugh Morgans from GNS Science, and Gayane Asatryan from the University of Queensland. In addition Debra Beamish, from Corinda State High School in Brisbane, will be sailing in an education and outreach role involving video sessions from the ship.

The expedition is designed to reveal how a region hundreds of kilometres east of Australia, centred on the Lord Howe Rise, has behaved in the past 53 million years. The submerged continent of Zealandia, including the Lord Howe Rise, was largely part of Australia until 75 million years ago, when it started to break away and move to the northeast. That movement halted 53 million years ago, when subduction began in the east in a new plate tectonic configuration. This is a key area to study the changes in global climate and oceanography, after Antarctica froze over and the world began to cool, with many fluctuations over time. As Australia moved north and the Tasman Sea developed, global circulation patterns changed and water depths over Zealandia fluctuated.

A VIP and media tour of the ship, plus two scientific tours, were hosted in Townsville on 28 July. Neville Exon attended and reported a very worthwhile set of activities. A very good group of journalists attended: two from Seven TV News; one from ABC TV News; two from Nine TV News; two from WIN TV News; two from Townsville Bulletin; three from JCU publicity. Will Wright from ANU public relations has reported that he had traced 150 news items reaching almost 2 million people, and I imagine there were others he did not find. So that's very good coverage indeed and some requests for interviews are still coming in. Some may well be by video-link (Zoom) with the ship.

An ANZIC application for Expedition 377 (Arctic Ocean Paleoceanography) has been sent to the European organisers. The drilling will be in mid-2018 with limited positions available, and the larger description and sampling party in early 2019 in Bremen.

An ANZIC call for applications for Expedition 378 (South Pacific Paleogene: October 14 to December 14, 2018) was sent out on 18 July. The deadline is 15 September.

An ANZIC call for Expedition 379 (Amundsen Sea Ice Sheet History: January 18 to March 20, 2019) and for Expedition 382 (Iceberg Alley Paleoceanography and South Falkland Slope Drift Expedition (382) 20 March – May 2019) went out on 25 June. The deadline is 16 October.

A dozen ANZIC applications for shipboard positions on Expedition 376 (Brothers Arc Flux, north of New Zealand) were ranked by the Science Committee. Our rankings were forwarded to the expedition leadership on June 1, and offers of positions are being made. Cornel de Ronde from GNS is a co-chief scientist and two other New Zealanders and two Australians will be aboard. A full list of names will be provided when things are finalised.

An educator (Suzy Urbaniak from Brisbane) and an early career scientist (Mathew Campbell) joined *JOIDES Resolution* for a ten-day School of Rock on its transit from the Philippines to Townsville, arriving in Townsville on 27 July. All parties were very pleased with this activity.

Catherine and Neville will go to Geoscience Australia on Sunday 20 July for their open day (at the end of Science Week), which will include an ANZIC/IODP exhibition. Ron Hackney of GA and Nobu Eguchi of JAMSTEC will be on hand to discuss the proposed *Chikyu* Lord Howe Rise deep drilling.

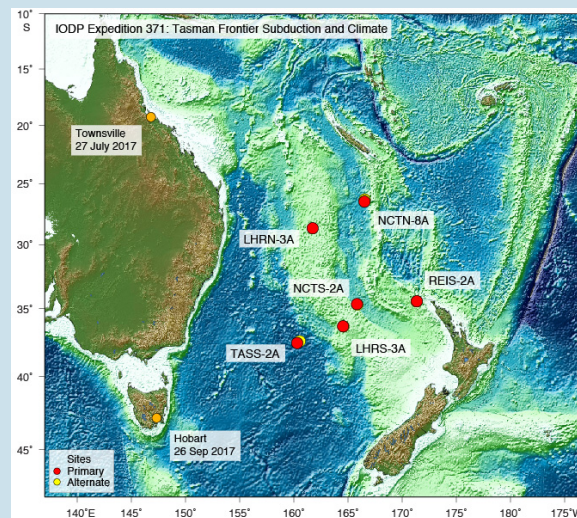
A full list of expeditions to mid-2020 is available on :  
<https://www.iodp.org/expeditions/expeditions-schedule>

Neville Exon and Catherine Beasley

# AT SEA

## Expedition 371: Tasman Frontier Subduction

The Tasman Frontier expedition will investigate the Eocene Tonga-Kermadec subduction initiation and evaluate whether a period of high-amplitude long-wavelength compression led to initiation of TK subduction or determine if alternative geodynamic models were involved.



Neville Exon joined the ship during the port call in Townsville to welcome guests from James Cook University and AIMS who were invited to tour the vessel while

The expedition left Townsville on Sunday and are due to arrive at their first site on the evening of August 3rd, then it's all hands!

ANZIC is represented by Co-chief Scientist Rupert Sutherland, Science party members Gayane Asatryan, Hugh Morgans, Kristina Pascher, Wanda Stratford and Education and Outreach Officer Debra Beamish



JOIDES Resolution leaving Townsville (photo credit Mark Leckie)

Follow the *JOIDES Resolution* on [Facebook](#) or <https://www.youtube.com/user/theJOIDESResolution> and read daily or weekly reports at: <http://iodp.tamu.edu/scienceops/sitesumm.html>