Issue 4, 2 June, 2016

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
Website: drill.gns.cri.nz

News from the ANZIC Office

The recent meeting of the *JOIDES Resolution* Facility Board (see also maps below) recommended the following new expeditions, as the vessel moves eastward from the South China Sea expeditions of early 2017. The lead ANZIC proponents are noted. (Note also that the US Fiscal Year begins in October, e.g. FY17 begins in October 2016.)

- **Full Proposal 832 (Tasman Frontier Subduction, Lord Howe Rise, Rupert Sutherland, VUW) for scheduling in FY17, late 2017; before already approved Expedition 369 (Australia Cretaceous Climate and Tectonics, Naturaliste Plateau, Irina Borissova, Geoscience Australia) in FY18 late 2017.**
- **APL Proposal 841 (Creeping Gas Hydrate Slides, Hikurangi margin, Ingo Pecher, Auckland); a one month combined LWD (logging while drilling) expedition, over Christmas 2017**
- **Continuing as start of Full Proposal 781A (Hikurangi Observatory, Laura Wallace, GNS), 2018**
- **Full Proposal 751 (West Antarctic Ice Sheet Climate, Ross Sea, Rob McKay, VUW), 2018**
- **Completion of 781A (Hikurangi Observatory, Laura Wallace, GNS), 2018**
- **818 (Brothers Arc Flux, north of New Zealand, Cornel de Ronde, GNS) in FY18, 2018**
- **Proposal 567 (South Pacific Paleogene), 2018**

Proposal 839 (Amundsen Sea Ice Sheet History) for scheduling in the beginning of FY19, 2018/19.

This is an amazingly good result for ANZIC, and shows how interesting our science is and how well our scientists can build a case to address global science problems with their international colleagues. The six expeditions in our region will be of great scientific interest, and the operational investment from the US National Science Foundation is of the order of $US90 million. We expect to have up to twenty ANZIC scientists aboard, including some co-chief scientists. We also expect to be calling for applications for participation in Expedition 369 late in June.

ANZIC Council meets by telephone on 14 June, and among the discussions will be how to build excellent new proposals for when the *JOIDES Resolution* leaves the Atlantic Ocean in 2021 or thereabouts.

The highly successful alternative platform Chixculub Impact Crater Expedition 364, in the Gulf of Mexico, has just been completed using a jackup rig, with absolutely outstanding core recovery to the 1335 m drilled. Marco Coolen of Curtin University was aboard as an organic geochemist and is very excited by the results. The expedition successfully cored through the peak ring (80km in diameter) of the Chicxulub K/T boundary impact crater to investigate (1) the nature and formational mechanism of peak rings, (2) how rocks are weakened during large impacts, (3) the nature and extent of post-impact hydrothermal circulation, (4) the deep biosphere and habitability of the peak ring, and (5) the recovery of life in a sterile zone. Of great interest is the composition and character of the post-impact Cenozoic carbonate sediments, the impact tsunami deposits, and the impact granite breccias and melt rocks of the peak ring rocks (whose composition was in doubt before the drilling).

A final email call went out on 31/5/19 for ANZIC applications for scientific participation in the IODP Expedition 370 "Temperature Limit of the Deep Biosphere off Muroto" this year. The drilling vessel *Chikyu* will explore the limits of sub-seafloor life and the biosphere in the proto-thrust zone of the Nankai accretionary prism off Japan. The expedition is planned for 10 September to 10 November in 2016, including 3 days of port call. It will be accompanied by overlapping shore-based activities at Kochi Core Center (KCC), planned from 27 September to 24 November. This expedition is based on IODP Proposal 865. It should be of especial interest to microbiologists, geochemists and biogeochemists, who may not be on our mailing lists, but we have asked our key contacts to circulate the email widely.

A call for applications from Australians for special funding for analytical work on legacy ocean drilling material led to a good number of applications, which will be reviewed soon.

A number of applications to host the highly successful one-week ANZIC Marine Geoscience Masterclass for the next two or three years have been received and are under consideration.

The Australian Earth Sciences Convention will be in Adelaide from 26 to 30 June, with the IODP Session on 27 & 28 June. The program enables us to report to the geoscience community on the various IODP expeditions of the recent past and plans for the future. There will be also an ANZIC Booth at AESC, run by Catherine Beasley.

Neville Exon and Catherine Beasley

Japan Agency for Marine-Earth Science and Technology (JAMSTEC) **is recruiting a total of 2 tenure-track position as a Scientist or Technical Scientist or Engineer, at Research and Development (R&D) Center for Ocean Drilling Science (ODS).**

The position is available from November 2016 or later.

The successful applicant will conduct 1) research on information from geology and geophysics subsurface datasets, drilling operations, and subsurface materials acquired by the drilling (e.g. rock and fluids) to understand more accurately the dynamic nature of the subsurface, and/or 2) technology development on acquisition and monitoring systems and analysis and modeling of drilling and downhole datasets acquired during drilling operations. The successful applicant may need to participate in D/V Chikyu drilling expeditions to fulfill the assigned tasks of the position.

The successful applicant as a scientist must have a Ph.D. and a strong record in a closely related research field.

The successful applicant as an engineer must have a bachelor's degree in a closely related field. Those who have equivalent ability with extensive experience are also acceptable.

Relevant related fields: Rock mechanics, Drilling engineering, Scientific drilling, Geophysics, Geology, Petrophysics, Mechanical engineering and related fields.

Persons of any nationality and either gender are encouraged to apply.

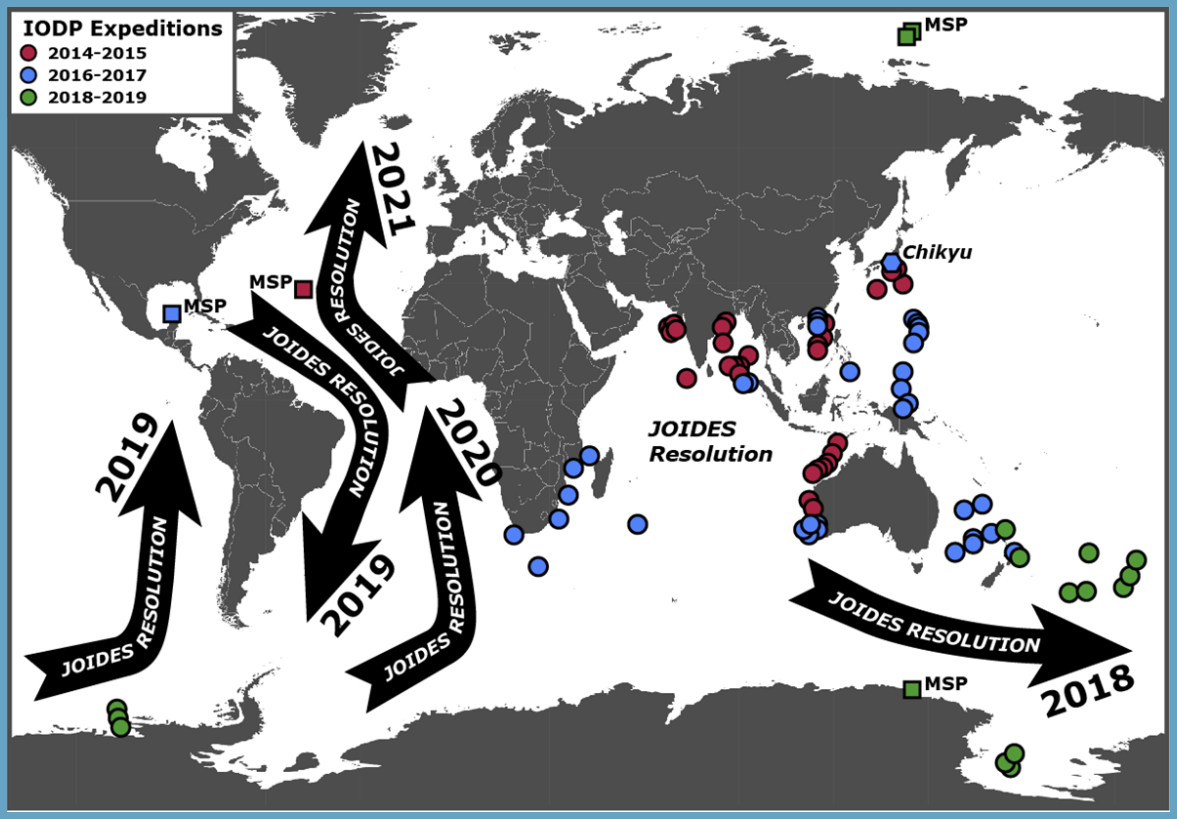
The details can be found at:

http://www.jamstec.go.jp/e/about/recruit/ods_20160719.html

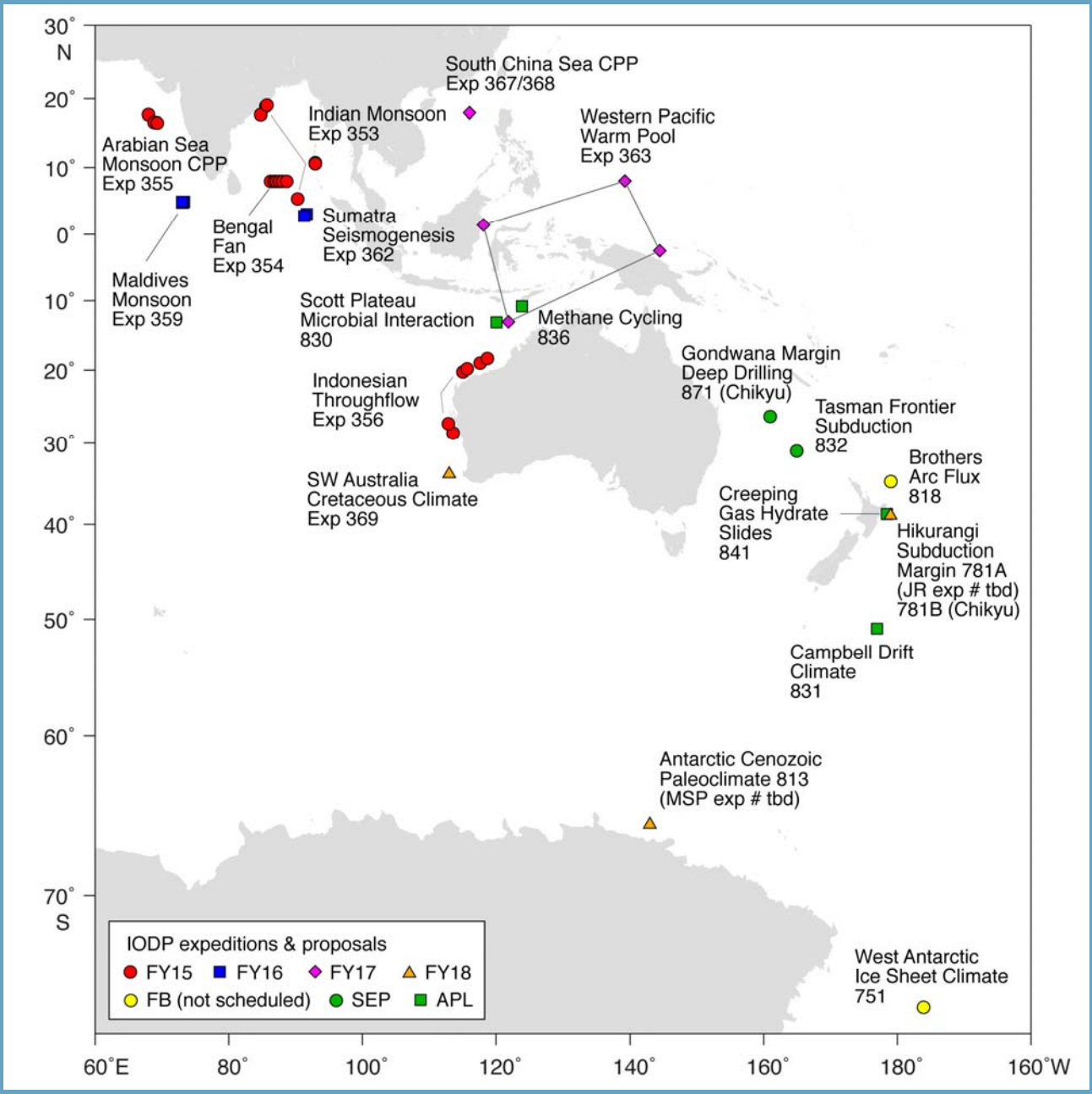
JOIDES Resolution Expedition Schedule 2017-19

Fiscal Year 1 Oct - 30 Sept	Proposal Expedition	Title
FY'17	P832	Tasman Frontier Subduction
FY'18	Expedition 369	Australia Cretaceous Climate and Tectonics
FY'18	P841-APL + P781A (1 of 2)	Combined Expedition Creeping Gas Hydrate Slides and LWD portion of Hikurangi Observatory
FY'18	P751 **	West Antarctic Ice Sheet Climate (Ross Sea)
FY'18	P781A (2 of 2)	Hikurangi Observatory (CORK installations)
FY'18	P818	Brothers Arc Flux
FY'18	Non-IODP	Mandatory 5-year Inspection JOIDES Resolution
FY'19	P567	South Pacific Paleogene
FY'19	P839 **	Amundsen Sea Ice Sheet History

Scheduled expeditions and proposed track 2014-21



JOIDES Resolution Regional Expeditions



IODP
INTEGRATED OCEAN DRILLING PROGRAM