Overview of proposals at SEP

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Review procedures: Highlights from the SEP Terms of Reference

- SEP is the Science Evaluation Panel of IODP, reports primarily to JRFB, and is responsible for selection of the best and most relevant proposals for forwarding to the relevant Facility Board (JRFB, EFB or CIB – see below)
- The SEP also advises the FBs and Forum on any shortcomings of the proposal pool with respect to themes and challenges of the IODP Science Plan, and makes suggestions for stimulating proposal pressure in those areas

Quick note on acronyms for those newer to the program:

FB = Facility Board

JRFB = *JOIDES Resolution* Facility Board

EFB = ECORD Facility Board

CIB= Chikyu IODP Board

Other acronym help: www.iodp.org/resources/acronyms





SEP Panel Membership (Nov 2022)

Science Subgroup: Site Subgroup: 21

31 members members

USA: 13 (inc co-chair) USA: 8

FCORD: 9 ECORD: 5 (inc co-chair)

Japan: 5 Japan: 2

China: 2 China: 2

AN7IC: 1 AN7IC: 1

India: 1 India: 1 Science Subgroup: approximate

Science Plan Theme Expertise

(some in more than one)

Biosphere Frontiers: 3

Climate and Ocean Change: 15

Farth Connections: 8

Farth in Motion: 5

SEP membership is large to ensure sufficient breadth of expertise across all areas of IODP Science Plan (and now the 2050 Science Framework) and in evaluation of site characterization data packages.





Watchdog (WD) Preparation of Proposal Presentations and Reviews



- WD1 Science presents the science case of the proposal after consultation with the other assigned WDs.
- WD2 Science advises the WD1 on the science case, and records the science part of the response letter to proponents (together with WD1). Other Science WDs may be assigned.
- WD3 Site* presents the new site survey data after consultation with the other assigned WDs, unless there are no new data. If no data, then WD3 advises on data that are necessary.
- **WD4 Site*** advises the WD3 on the site survey data, and WD4 records the site survey part of the response letter to proponents (together with WD3). Other Site WDs may be assigned.
- WD5 Operator advises watchdogs 1-4 on the drilling/coring/logging plan, platform, technical issues and feasibility of the proposed program.
- * WD3 and WD4 (and WD5) also advise on the science case



SEP review in summary

Science questions:

- Are science questions/hypotheses exciting and of wide interest?
- Will the proposal significantly advance goals of the Science Plan (and now also the 2050 Science Framework)?
- Does the integrated experimental design constitute a compelling and feasible scientific proposal?
- Would the proposal engage new communities or science programs into IODP?

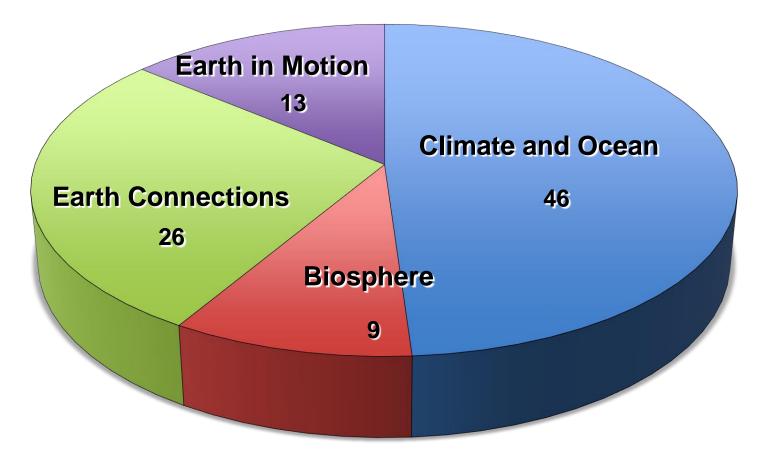
Site questions:

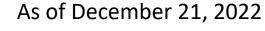
- Based on the data that are presented, can we be reasonably assured that they can achieve their objectives?
- Given the data, are they drilling in the right locations and to the right depth to achieve the scientific objectives?

Recommendation/Destination and/or Rating (rating only after external review): ?



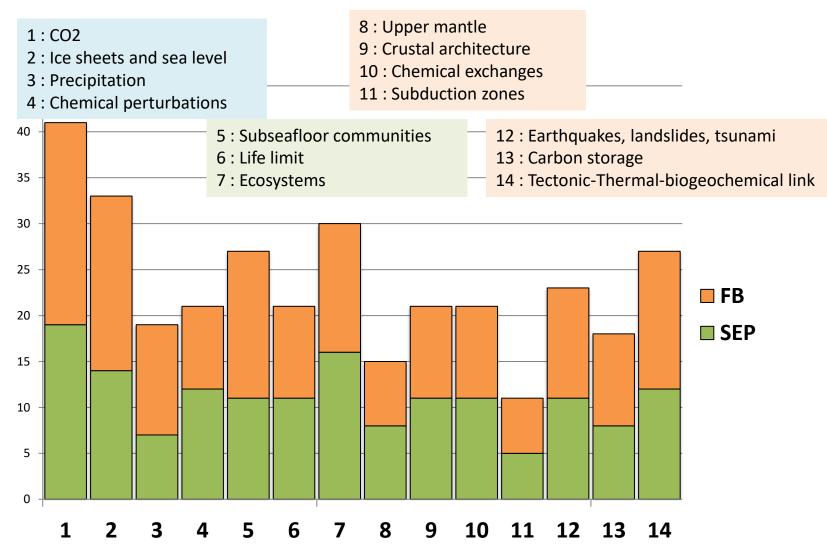
Active proposals: 94 by science plan themes





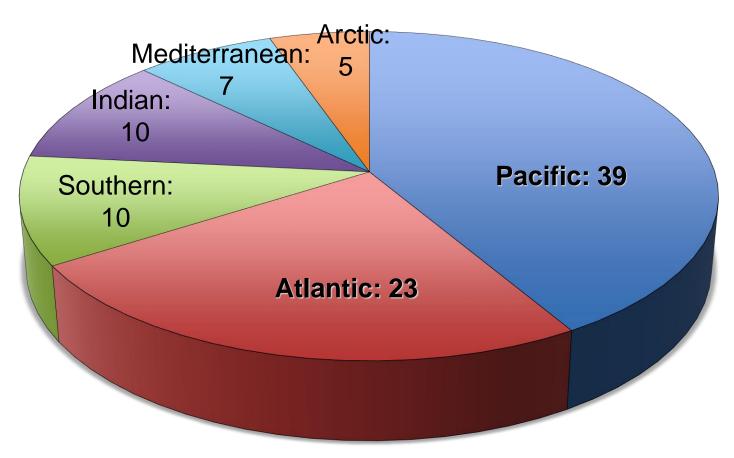


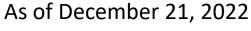
How many proposals address which challenges?



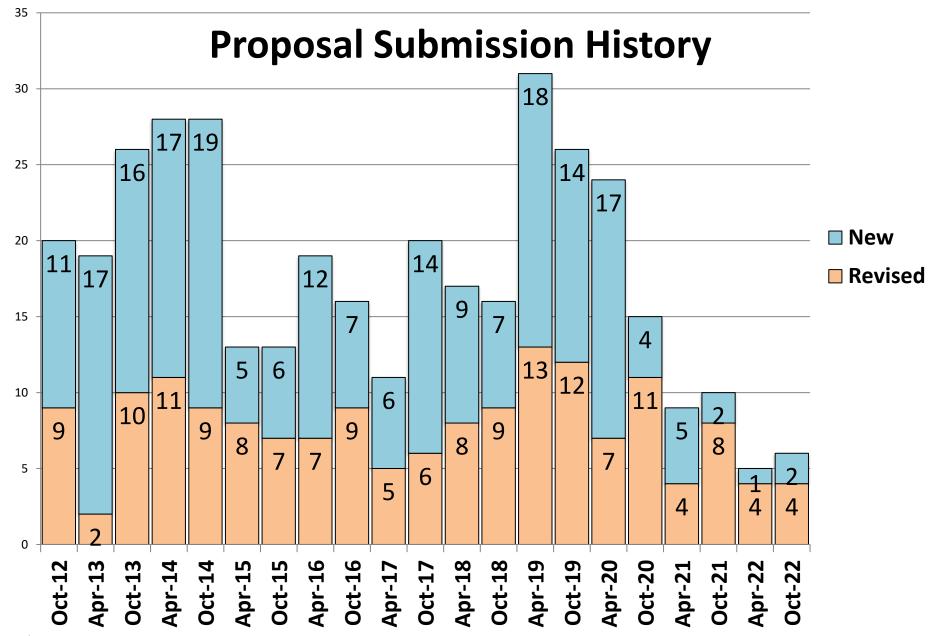


Active proposal status: 94 by target ocean



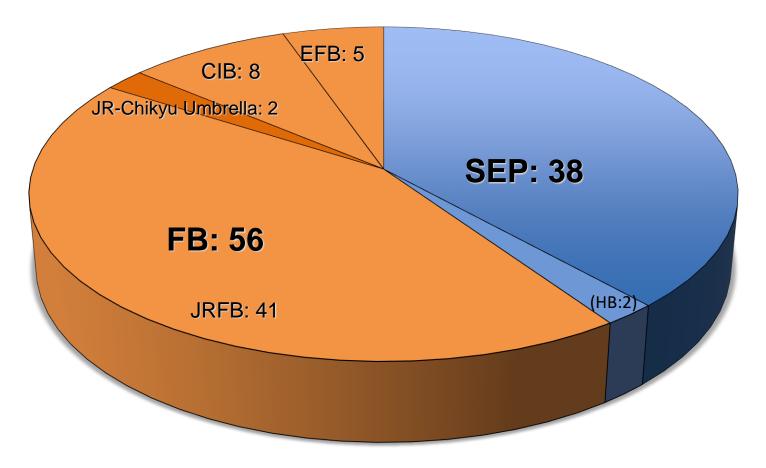


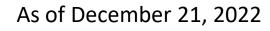






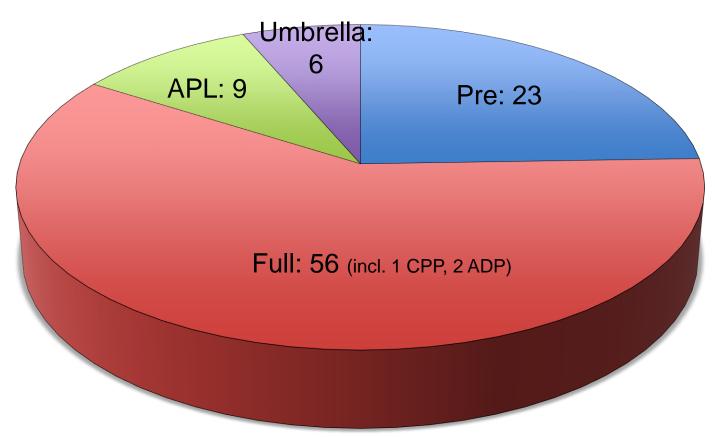
Active proposal status:94 by review stage





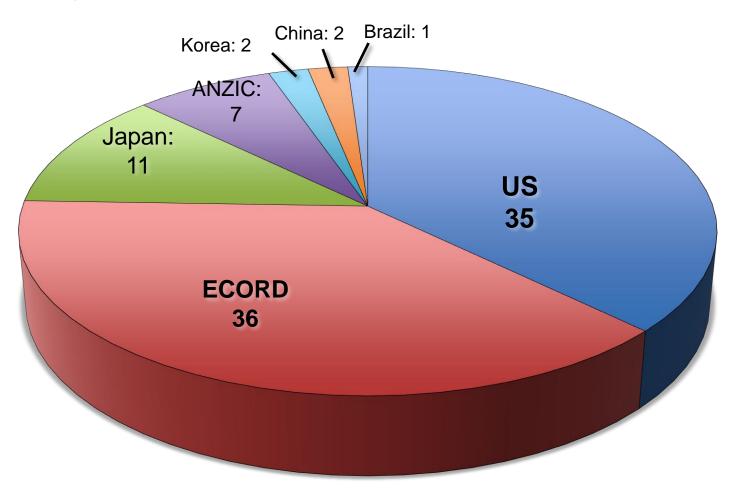


Active proposals: 94 by proposal category



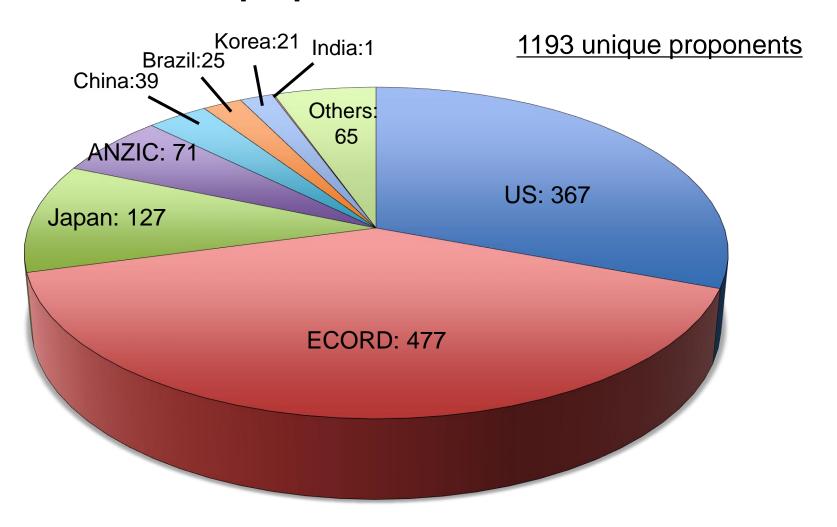


Active proposals: 94 by lead proponent's member affiliation



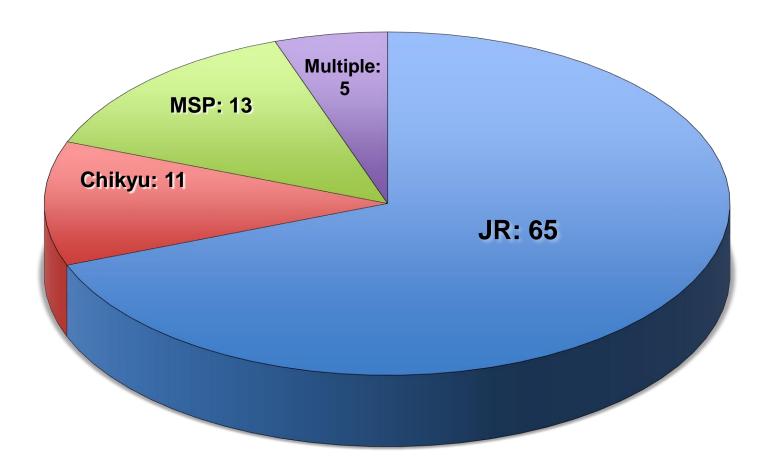


Active proponent distribution

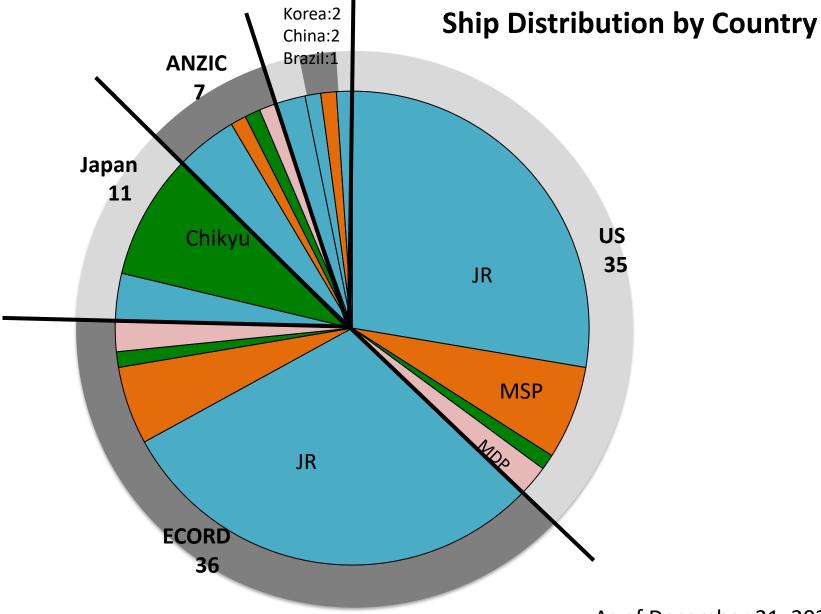




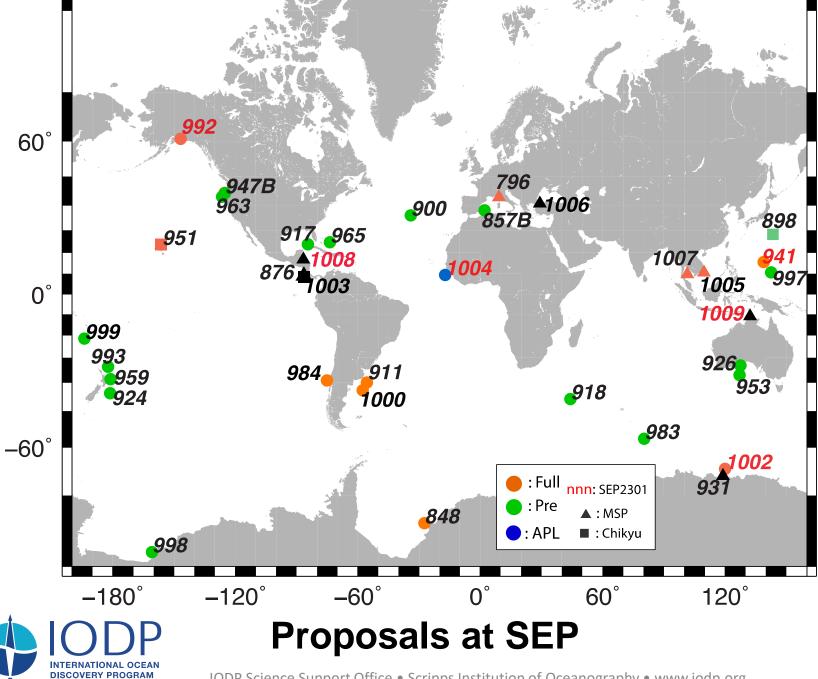
Drilling Platforms for 94 Active Proposals

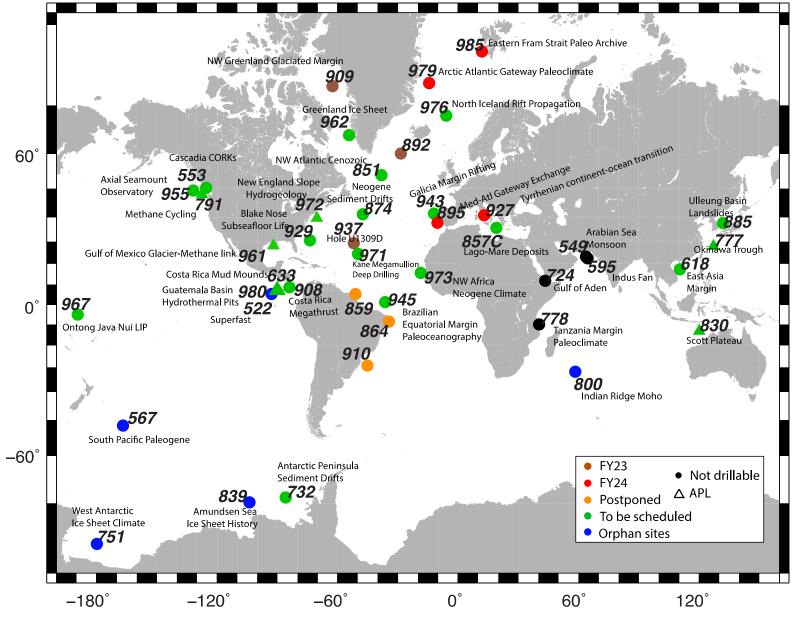






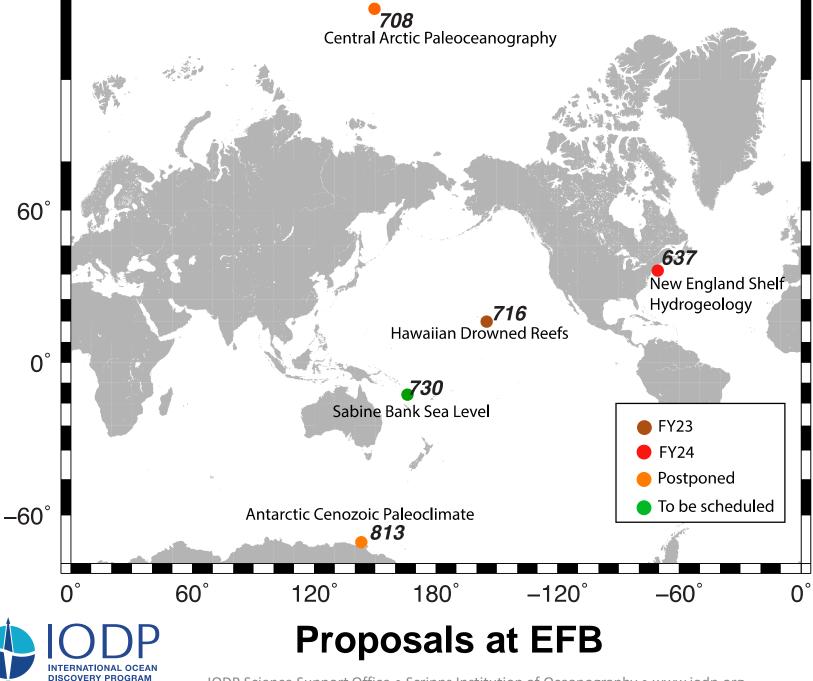








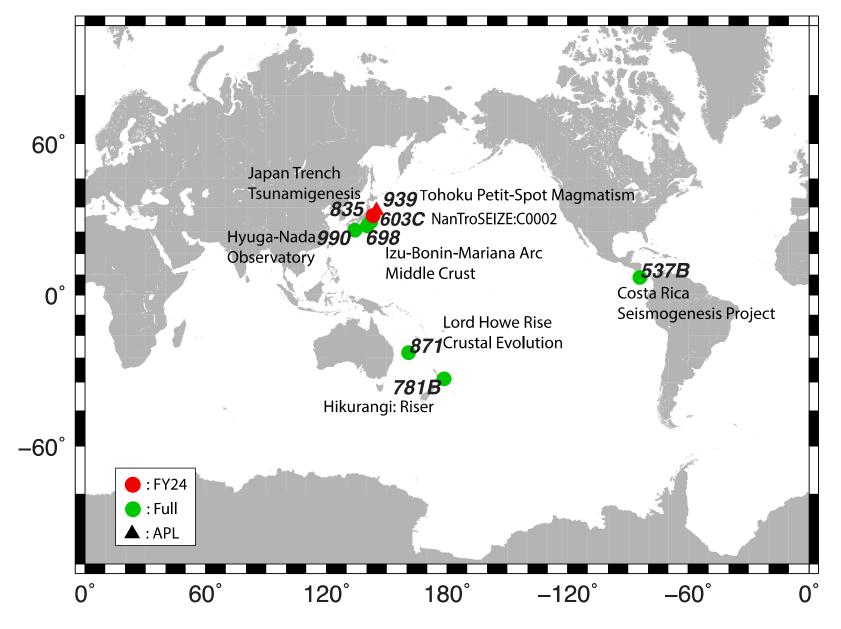
Proposals at JRFB



MSP proposals currently at SEP that may be forwarded to EFB

#	type	platfor m	Last reviewed	Lead	Title	Status / last review
796	ADP	MSP	6/2015	Achim Kopf	NADIR – Nice Amphibious Drilling	Revise to L2S proposal
931	Pre	MSP	1/2018	Amelia Shevenell	East Antarctic Ice Sheet Drilling	Revise to Full
1003	Pre2	MSP	1/2022	Ann Dunlea	N. CAVA Volcanic Ash	Revise to Full
1005	Full	MSP	1/2022	Peter Clift	Sunda Shelf Sea Level	Revise
1006	Pre	MSP	1/2022	Wout Krijgsman	Mediterranean-Black Sea Gateway Exchange	Revise to Full
1007	Full	MSP	6/2022	Zhifei Liu	Sunda Shelf Carbon Cycling	Revise
1008	Pre	MSP	1/2023	Eberhard Gischler	Belize Barrier Reef Postglacial Sea- level	?
1009	Pre	MSP	1/2023	Uwe Balthasar	Timor Sea Paleoenvironment	?







Proposals at CIB

Proposals at or potentially going to CIB

P#	type	Platform	Last reviewed	Lead	Title	Stage	status
537B	Full4	Chikyu	2017.11	Ranero	Costa Rica Seismogenesis Project Phase B	CIB	For scheduling
603C	Full	Chikyu	2019.03		NanTroSEIZE Phase 3: Plate Interface	CIB	Partially drilled
698	Full3	Chikyu	2011.12	Tatsumi	Izu-Bonin-Mariana Arc Middle Crust	CIB	For scheduling
781B	Full	Chikyu	2014.01	Wallace	Hikurangi: Riser	CIB	For scheduling
871	CPP2	Chikyu	2017.01	Hackney	Lord Howe Rise Crustal Evolution	CIB	For scheduling
990	Full2	NR-Chikyu	2022.06	Nakata	Hyuga-Nada Observatory	CIB	For scheduling
800	MDP	,	2012.05 (for Chikyu part)	Dick	Indian Ridge Moho		Waiting for Chikyu component
805	MDP	Chikyu	2012. 05	Umino	MoHole to Mantle	SEP	Revise
857	MDP2	Chikyu+JR	2015.09	Camerlenghi	DREAM: Mediterranean Salt Giant		Waiting for Chikyu component
876	Pre	JR+Chikyu			Bend-Fault Serpentinization	SEP	Submit Full
898	Pre	NR-Chikyu	2016.06	,	Fore Arc Mohole-to- Mantle	SEP	Submit Full
951	Full	NR-Chikyu	2021.01	Umino	North Hawaiian Arch Crust	SEP	Revise



So where are we at and what might we expect in the future?

- 8 MSP proposals currently at SEP that might be forwarded to EFB
- 6 Chikyu proposals currently at SEP that might be forwarded to CIB

Also we might expect

- Transfer/resubmission of some existing JR proposals for implementation by MSP or Chikyu.
 - Undrilled full proposals at JRFB,
 - > JR proposals at SEP
- Submission of more MSP and Chikyu proposals
- Progression through the review process of MSP and Chikyu proposals

A lot of work remains.

