

**4th Meeting of the
ECORD Science Support & Advisory Committee**

ESSAC

18-20 May 2015

Uppsala, Sweden

MINUTES



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List of Participants

ESSAC Office

Gretchen Früh-Green (Chair)
Julia Gutiérrez Pastor

ESSAC Delegate Switzerland
ESSAC Science Coordinator

ESSAC Representatives

Andrea Argnani
Anne Le Friant
Kikki F. Kleiven
Aarno Kotilainen
Xavier Monteys
Werner Piller
Ian Snowball
Rüdiger Stein
Szymon Uscinowicz
Antje Voelker
Nicolas Waldmann

ESSAC Delegate Italy
ESSAC Alternate France
ESSAC Delegate Norway
ESSAC Delegate Finland
ESSAC Delegate Ireland
ESSAC Delegate Austria
ESSAC Delegate Sweden
ESSAC Delegate Germany
ESSAC Delegate Poland
ESSAC Delegate Portugal
ESSAC Delegate Israel

Liaisons, Alternates and Guests

Jan Behrmann
Jorijntje Henderiks
Alan Stevenson
Teresa Bingham
Antony Morris

ESSAC Vice-Chair
ESSAC Alternate Sweden
ESO
ESSAC Data Base Coordinator
DLP Guest lecturer

Apologies

Gilbert Camoin
Nadine Hallmann
Patricia Maruéjol
Marit-Solveig Seidenkrantz
Dominique Weis
Georges Ceulener
Lucas Lourens
David Van Rooij
Jochen Erbacher
Bridget Wade

EMA
CEREGE
EMA
ESSAC Delegate Denmark
ESSAC Delegate Canada
ESSAC Delegate France
ESSAC Delegate Netherlands
ESSAC Delegate Belgium
IODP/ICDP Germany, MagellanPlus, past-chair
ESSAC Delegate UK

1. Introduction

1.1 Call to order, welcome and introductions

G. Früh-Green welcomed all ESSAC delegates, alternates, observers and invited guests to the 4th ESSAC Meeting in Uppsala, Sweden. The ESSAC meeting started with self-introductions of each participant.

1.2 Meeting logistics

I. Snowball and J. Hendericks provided information about the meeting logistics.

1.3 Discussion and approval of the (1) agenda and (2) minutes from the ESSAC Zurich meeting 2014

G. Früh-Green summarized the current agenda and reviewed goals of the meeting. The ESSAC Delegates approved the agenda.

ESSAC CONSENSUS 1505-01: ESSAC approves the agenda of the 4th ESSAC meeting on 18-19 May, in Uppsala, Sweden.

ESSAC CONSENSUS 1505-02: ESSAC approves the minutes of the 3rd ESSAC meeting held on 7 October in Zurich, Switzerland.

1.4 Review of action items since the ESSAC Zurich meeting

G. Früh-Green presented the main action items since the last ESSAC meeting. The list below contains the actions items, which arose at the 3rd ESSAC meeting in Zurich. Action items that have been accomplished by the ESSAC Office are labelled as "Done". Action items not yet fulfilled are labelled "in progress" or "pending".

> **ESSAC Action Item 1410-01:** The ESSAC office shall distribute information to the national alternates to participate in tasks of ranking and nomination for expeditions, advisory panels, scholarships, grants, etc. This will provide the ESSAC delegates a means of distributing their workload and will allow the alternates to be involved in ESSAC activities should they wish to do so. *Done*.

> **ESSAC Action Item 1410-02:** ESSAC will not rank applications related to Special Calls. However, the ESSAC Office shall contact the relevant IODP national office and/or delegate in case of uncertainties with applications, prior to sending the applications to the *JOIDES Resolution* Science Operator (JRSO), or in case of uncertainties with invitations from the JRSO. *Done*.

> **ESSAC Action Item 1410-03:** The ESSAC office shall remove the wording " ... on exception to non-ECORD countries" in the next call to apply for ECORD Scholarships for Summer Schools. *Done*.

> **ESSAC Action Item 1410-04:** The ESSAC E&O subcommittee shall initiate a discussion by email to establish a criteria to rank the ECORD Scholarships for Summer Schools and ECORD Research Grant applications and will present a clear proposal of selection with standardised guidelines before the next ranking period in 2015. *Done*.

> **ESSAC Action Item 1410-05:** The ESSAC office shall issue the calls for ECORD Grants 2015, ECORD Summer Schools 2015 and a call to Host Summer Schools 2016 in January/February of 2015. *Done.*

G. Früh-Green asked all participants for comments or questions.

2. IODP – Platform Operator Updates

2.1 IODP Update

G. Früh-Green presented an update about the IODP status.

G. Früh-Green summarized the US funding situation.

Update on US funding situation

- NSF received the National Research Council/National Academy of Sciences (NRC/NAS) report *“Sea Change: A Decadal Survey of Ocean Sciences, 2015-2025”* in late January 2015.
- *Sea Change* recommended an ~10% reduction in operating costs for IODP.
- NSF is currently reviewing the Sea Change Report and will provide a response to the community in the very near future.

Changes at NSF Division of Ocean Sciences Leadership

- In January 2015, Rick Murray took over as Director of the NSF Division of Ocean Sciences.
- The US Science Support Office (USSSP) has now been assigned to the Lamont-Doherty Earth Observatory
 - Carl Brenner is PI and Office Director
 - Maureen Raymo and David Goldberg are Co-PI's
 - Angela Slagle is Science Program Officer
 - 5-year award
- New logo, email and web address: <http://usoceandiscovery.org>

NSF thanked Ocean Leadership for providing the previous USSSP office for nearly 3 decades, providing the foundation for the success of ODP and IODP.

G. Früh-Green reported about recent and future IODP meetings.

Recent & Future IODP Meetings

- JOIDES Resolution Facility Board, May 12-13, 2015 Arlington, VA USA
- Science Evaluation Panel, June 29 - July 1, 2015 Brest, France
- Environmental Protection and Safety Panel, September 1-2, 2015 College Station, TX USA
- IODP Forum, July 8-10, 2015 Canberra, Australia
- Science Evaluation Panel, Jan 12-14, 2016 La Jolla, CA USA
- ECORD Facility Board, June 15-16, 2016 (venue TBD)

IODP Forum

- **Keir Becker** is the Chair through September 30, 2015.
- **James A. Austin Jr.** is the incoming Chair for the term October 1, 2015 - September 30, 2017.

- Meetings:
 - The first meeting of the IODP Forum was held May 27-28, 2014 in Busan, South Korea, hosted by Dr. Gil Young Kim of the Korean Institute of Geoscience and Mineral Resources (KIGAM).
 - The 2015 IODP Forum Meeting will be held July 8-10, 2015 in Canberra, Australia, hosted by Dr. Neville Exon, Program Scientist, Australia and New Zealand IODP Consortium (ANZIC).

G. Früh-Green indicated that Jan Behrmann would represent ESSAC at the next IODP Forum meeting in Canberra.

Update – Recent IODP Meetings

JOIDES Resolution Facility Board, May 12-13, 2015 Arlington, VA USA

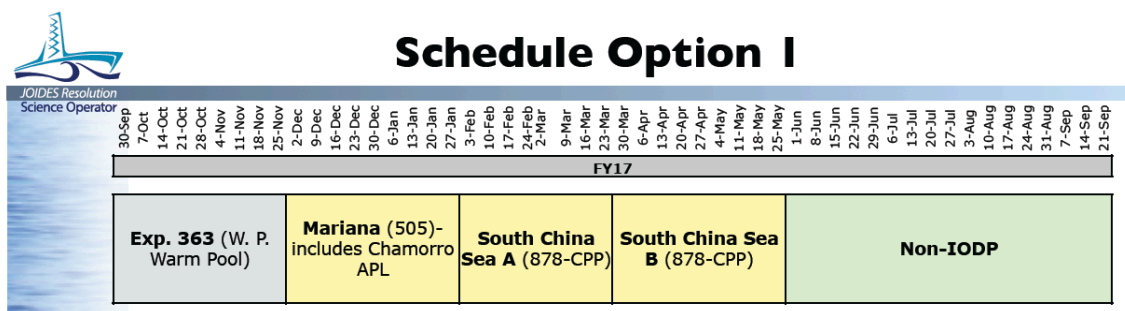
Dominique Weis represented ESSAC as an observer at the JR Facility Board meeting. The ESSAC Office received an executive summary from Gilbert Camoin as voting member.

JOIDES Resolution Facility Board

Name	Institution	Member Type
Members		
James Allan	National Science Foundation, USA	Funding Agency
Gilbert Camoin	European Management Agency, CEREGE, France	Funding Agency
Marcio de Castro Silva Filho	Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES), Brazil	Funding Agency
B.K. Bansal	Ministry of Earth Science, India	Funding Agency
Qing Sun	Division of Ocean, Ministry of Science and Technology, China	Funding Agency
Mike Coffin	University of Tasmania, ANZIC	Funding Agency
Gil Young Kim	Korea Institute of Geoscience and Mineral Resources (KIGAM)	Funding Agency
Brad Clement	JR Science Operator, Texas A&M University, USA	Operator
Ryo Anma	University of Tsukuba, Japan	Science
Susan Humphris	JRFB Chair, Woods Hole Oceanographic Institution, USA	Science
Anthony Koppers	Oregon State University	Science
Christina Ravelo	University of California Santa Cruz	Science
Heiko Palike	University of Bremen, Germany	Science
Andrew Roberts	Australian National University	Science

The IODP Proposal Status, as of mid-April 2015, can be found in [Annex 1](#).

Future JR Operations



Other considerations :

- The scheduling of the 2 South China Sea CPPs implies that the JR will operate for 10 months/year in FY18 and FY19
- The first expedition to be implemented in FY 18 will be « SW Australia Margin » (#760)
- Strong commitment to implement the « Hikurangi Margin Observatory » expedition (#781A) in FY18
- After implementing drilling expeditions in the SW Pacific and potentially in the Southern Ocean in FY18 and FY19, the JR should arrive in the Southern Atlantic in FY19.
- JR is expected to stay in the Atlantic, Mediterranean, Caribbean and Gulf of Mexico regions for several years.

New Scheduled JR Expeditions

<i>JOIDES Resolution Expeditions</i>	Exp#	Dates	Ports
Indonesian Throughflow <i>Summary of science objectives</i>	356	Jul 31 - Sep 30, 2015	Fremantle / Darwin
FY16 expeditions approved by the JR Facility Board, subject to availability of funds:			
Maldives Monsoon <i>Summary of science objectives</i>	359	Sep 30 - Nov 30, 2015	Darwin / Colombo
Indian Ridge Moho <i>Summary of science objectives</i>	360	Nov 30, 2015 - Jan 30, 2016	Colombo / Port Louis, Mauritius
Southern African Climates and Agulhas Current Density Profile <i>Summary of science objectives</i>	361	Jan 30 - Mar 31, 2016	Port Louis / Capetown
Sumatra Seismogenic Zone <i>Summary of science objectives</i>	362	Jul 31 - Sep 30, 2016	Colombo / Singapore

FY17 expeditions approved by JR Facility Board, subject to availability of funds:			
Western Pacific Warm Pool (799)	363	Sep 30 - Nov 30, 2016	Singapore / Guam
Mariana Convergent Margin (505 and 693-APL)	366	Nov 30, 2016 - Jan 2017	Guam / TBD
South China Sea Rifted Margin A (878-CPP)	367	Feb - March 2017	TBD / TBD
South China Sea Rifted Margin B (878-CPP)	368	April - May 2017	TBD / TBD
FY18 expeditions approved by JR Facility Board, subject to availability of funds:			
Australia Cretaceous Climate and Tectonics (760)	369	Sept - Nov 2017	TBD / TBD
Hikurangi Subduction Margin (781A)	TBD	TBD	TBD / TBD
(more to be added at the May 2016 JRFB meeting)			

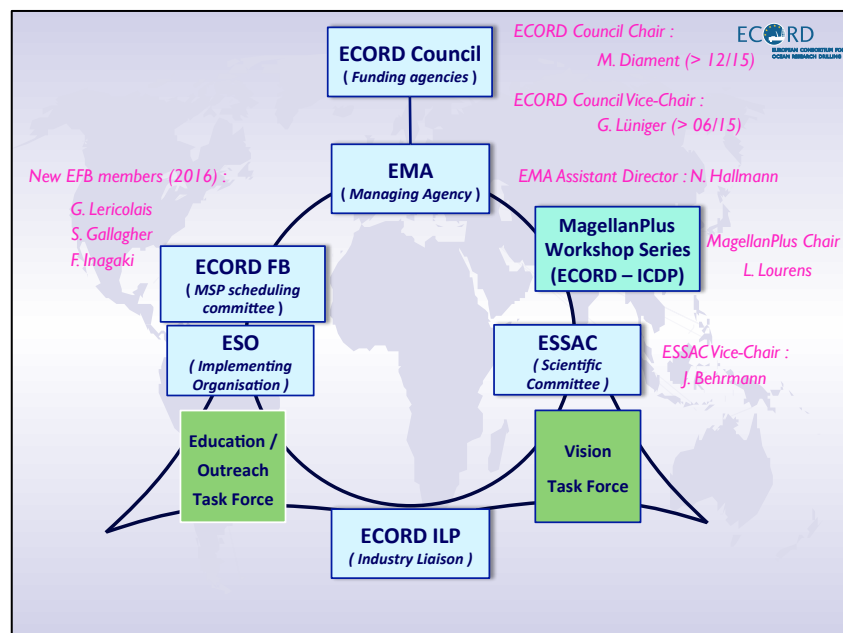
2.2 EMA, ECORD Council, ECORD Vision Task Force

G. Früh-Green summarized the EMA, ECORD Council, ECORD Vision Task Force news. G. Früh-Green presented some slides provided by G. Camoin and pointed out that the ECORD Annual Report 2014 and Newsletter 24 were already finished and available online.

ESSAC CONSENSUS 1505-03: ESSAC sincerely thanks P. Maruejol for her tremendous efforts in writing, compiling, and editing contributions for the ECORD Newsletter 24 and Annual Report 2014.

ECORD news

G. Früh-Green showed the structure of ECORD and new members.



The FY14 contributions to ECORD and ECORD Budgets FY14 and FY15 are showed in the tables below:

FY14 contributions

		(\$US)
Austria	> FY18	100,000
Belgium	TBD	30,000
Canada	> FY15	150,000
Denmark	> FY16	184,000
Finland	> FY18	80,000
Germany	> FY18	5,600,000
Iceland	> FY14	30,000
Ireland	> FY18	137,000
Israel	> FY16	30,000
Italy	> FY18	400,000
Netherlands	> FY18	500,000
Norway	> FY18	1,100,000
Poland	> FY18	30,000
Portugal	> FY18	90,000
Sweden	> FY18	528,080
Switzerland	> FY16	600,000
UK	> FY18	4,296,400
France	> FY18	5,212,000
TOTAL		19,097,480

- 17 ECORD members
- Renewed contacts with Spain
- Potential newcomers
- « Accessing Member » : Russia (+ new contacts) ;
- Contacts : Turkey, Czech Republic, Luxembourg)

ECORD FY14 Budget

	FY14 Income	FY14 Expenses	FY13 Expenses
FY 13 balance	1,615,180		
FY 14 contributions	19,097,480		
ECORD-NSF MoU		7,000,000	13,055,771
ECORD-JAMSTEC MoU		1,000,000	
ESO		3,131,775*	15,995,785**
EMA		318,090	379,730***
MagellanPlus		91,770	65,000
ECORD Outreach		74,770	-
ESSAC		364,238	285,702
Support of SEP Chair		93,864	N/A
BCR		417,284 *	N/A
TOTAL	20,712,660	12,491,791	
FY 14 balance	8,220,869		
* 15 months (10/13 – 12/14)			
** Including Expedition #347 costs			
*** including outreach costs			

ECORD FY15 Budget

	FY15 Income	FY15 Expenses
FY 14 balance	8,220,869	
FY 15 contributions	19,048,000	
ECORD-NSF MoU		7,000,000
ECORD-JAMSTEC MoU		1,000,000
ESO		6,040,000*
EMA		275,846
MagellanPlus		87,570
ECORD Outreach		58,500
ESSAC		369,620
Support of SEP Chair		93,864
Support of E-ILP Chair		12,510
BCR		352,167
TOTAL	27,268,869	15,290,077
Expected FY 15 balance	11,978,792	
<i>* Including Expedition #357 costs</i>		
<i>The Amounts in USD are subjected to exchange rate fluctuations</i>		

- Total fixed costs: 11,290,000 \$. yr -1
- Available for MSP operations: 7,710,000 \$. yr -1
- Currency exchange loss: - 1,500,000 (UK, Belgium, Denmark and France)
- Total: 10,480,000
- Potential additional contributions (cash, IKCs) not considered

5 year ECORD MSP Operational Plan

The ECORD Headline # 6 provides the details about the ECORD MSP Operation plan:
http://www.ecord.org/pdf/ECORD-Headlines_6.pdf

ECORD is aiming to fund and implement one MSP expedition per year on average for IODP:

- Diversity of science themes
- Operational and funding flexibility

In-Kind Contributions (IKCs)

(ECORD Headline # 5: http://www.ecord.org/pdf/ECORD-headlines_5.pdf)

- Drilling platforms /systems
- Support vessels
- Essential scientific service
- Hazard site survey
- Onshore facility near the drill site
- Ice management
- Remote logistics and assistance
- Any IODP member and non-member country can propose IKCs following an open call

- IKCs offers evaluated by ESO and their proposed cash value must be approved by the ECORD Council
- IKCs rewarded by extra Science Party positions on the MSP expedition for which the IKC has been rendered. For ECORD countries, IKC extra Science Party positions may be used to solve/mitigate unbalanced situations in the quota system, based on case-to-case negotiation between EMA and the contributing nation.

3. ESO and ESSAC News

3.1 ESO

A. Stevenson presented the ESO News.

Summary

- Expedition 357 Atlantis Massif Seafloor Processes, Autumn 2015;
- Seafloor drill developments and testing program;
- Expedition 364: Chicxulub Impact Crater, Spring 2016;
- IODP Proposal #708 ACEX 2 scheduled 2018 MSP;
- IODP Proposal #813 Antarctic Cenozoic Paleoclimate: scheduled 2018 MSP

IODP Expedition 357: Atlantis Massif Seafloor Processes

- RRS *James Cook* - In Kind Contribution (IKC) from the UK, accepted by ECORD
- Mobilisation - 18th October 2015 (port TBC)
- Sailing dates - 24th October - 9th December (~16 days transit, ~30 days on site)
- Science Party invites issued
- Major planning meeting held on 23rd Feb (ESO, Ship, RD2, MeBo, Co-chiefs)
- Operational planning and core workflow planning continues
- OSP provisionally starts 20th Jan 2016, for 3 weeks (TBC)

Seafloor Drill Developments

- The RD2 and MeBo seafloor drills are evolving systems
- BGS and MARUM (MeBo) have agreed to collaborate on developing tools that can work on both drills:
 - Dual induction resistivity probe
 - Magnetic susceptibility probe
 - Borehole packer system (expanding packer)
 - Drill string plug for post-expedition fluid sampling by ROV
 - Drill-mounted tracer delivery system
 - Drill-mounted water sampling system
 - Drill-mounted sensor package - CTD/DO/CH₄/pH/redox

Timeline

- April 2015: logging tools tested and ESO staff trained at facilities at ANTARES Datensysteme GmbH
- May 2015: logging tools delivered to BGS and MARUM
- June-Aug 2015: dry testing at BGS Edinburgh and Lavalette Experimental Site (Univ. of Montpellier)
- Mid Aug 2015: full wet test of all systems offshore Scotland (postponed from

May 2015)*

- Oct-Dec 2015: Expedition 357

* co-funded by ECORD and BGS

BGS Rockdrill 2

- Multi-barrel wireline subsea remote drill
- Coring up to 55m below sea floor in water depths up to 4000m.
- System can operate for more than 50 hours on a single deployment.
- Samples taken in 1.7 meter sections using an internal core barrel that is recovered through the main drill string into the unit's drill centre.
- Holes can be logged using a range of downhole logging tools.
- BGS have an Optical, Acoustic and spectral Gamma (OAG) memory tool, dual-induction tool and magnetic susceptibility tool.
- A gas-capping system has been developed by the BGS for use in gas hydrate entrained sediments for assessing the volume of gas hydrate.
- Most recent development is a borehole plug that can be installed in the cored hole. This isolates the borehole from the surrounding sea floor and sea water allowing subsequent borehole water sampling to be carried out by ROV.
- The next stage will be the installation of sensors within the plug system for the collection of data on a long-term monitoring basis.
- Additional developments have been made to RD2 for this expedition including an extension to the drill mast allowing standard length logging tools to be deployed downhole, and a tracer system to allow monitoring of contamination of porewater by drilling fluid.

Expedition 364 Chicxulub Impact Crater

- Contractual 'stand still' period just ended, starting negotiations with preferred contractor (meeting 22nd April).
- Rig setup under discussion is capable of reaching 1500 mbsf.
- This is an one hole expedition - multiple pipe size 'step downs' mitigate the risk of getting stuck and increase the chance of reaching TD.
- ECORD FB set self-imposed limit of \$8.5M (cost to ECORD)
- ICDP has provisionally awarded \$1M for ICDP-focussed activity, not the basic expedition
- Need clarification of conditions of ICDP funding - discussion has started
- Permit application submitted to the British Embassy in Mexico City, forwarded to the SRE - Mexican Secretariat of Foreign Affairs.
- Chicxulub Science Workshop in Merida, 30-31 March: planning, encouraging Mexican participation in IODP, outreach, permitting.
- Discussions ongoing regarding project MoU between ECORD and Mexican institutes - IKC possibility still open.
- Call for Scientists was open for the month of April.

Open hole rate	Coring rate	Duration to 1500 mbsf	Cost to 1500 mbsf	Cost to 1200 mbsf
50m/day	30m/day	~50 days	\$8.9M	\$8.0M
40m/day	25m/day	~60 days	\$9.6M	\$8.5M
30m/day	20m/day	~70 days	\$10.6M	\$9.3M

A. Stevenson also reported about the ECORD Facility Board meeting.

ECORD Facility Board, March 2015

The ECORD Facility Board recommends scheduling proposal 708 (ACEX2) as an expedition for the fiscal year 2018 with two provisions: (1) that the maximum ECORD contribution will not exceed \$15 million US, and (2) that primary objectives in the original proposal and addenda are not changed.

The ECORD Facility Board recommends scheduling proposal 813 (Antarctic Cenozoic Paleoclimate) as an expedition for the fiscal year 2018 with two provisions: (1) that the maximum ECORD contribution will not exceed \$9 million US, and (2) that primary objectives in the original proposal and addenda are not changed.

708-Full Add ACEX2 (March 2015)

- Water depth: 1405 m
- Penetration: 1200m x 3 (possibly x 2) at primary site
- Addendum still calls for three deep holes in deep water (2.6-3.6 km of drillstring).
- ACEX-style fleet, with 'top-end' geotechnical rig on a sizable icebreaker - doesn't currently exist
- Stronger rig required to handle >2km of pipe.
- Casing will be required (extra space and time needed)
- Long site residency, risk of being pushed off station
- If no ice, may still get high sea states
- \$25M-\$34M, with no IKC, 3 holes to 1200m
- \$14M-\$19M, ice breaker IKCs, 2 holes 1200m

IODP Proposal #813 Antarctic Cenozoic Paleoclimate 3.2 ESSAC Office news

- ESO is searching for a suitable research icebreaker
- Only possibility so far is to contract the *N/B Palmer* (Division of Polar Programs, NSF)
- Ship potentially available in Feb-Apr 2018
- ESO has been in communication with the Antarctic Support Contract (ASC) for NSF
- The outlook is positive, but the ship is not being provided as an IKC - costs \$5.5M
- Expedition cost estimate is ~\$9.0M (cf. last estimate ~\$3.5M which assumed IKC) or \$7.0M if NSF can schedule other programs to reduce mob costs - not guaranteed.
- Need to commit by around August 2015.

A. Stevenson showed the MSP Proposals, as of March 2015, and the upcoming MSP proposals at the ECORD Facility Board ([Annex 2](#)).

3.2 ESSAC Office news

G. Früh-Green indicated that most news items would be addressed under later Agenda Items.

G. Früh-Green announced the new faces within ESSAC:

- Jan Behrmann as Vice-Chair. Will take over ESSAC Office as of 1 January 2016

- Teresa Bingham has been hired part time to build up ECORD publications data base

3.3 ESSAC representatives and National Office reports / issues

Each ESSAC delegate gave a short summary about the latest national activities regarding IODP and ECORD issues.

Austria, W. Piller

They have an Austrian scientist sailing in the Indonesian Throughflow Expedition. There is an application for the Sumatra Seismogenic Zone Expedition (362) and another one for the Atlantis Massif Expedition (357), as a microbiologist. The interest for microbiology activities is increasing. Austria's activities are progressing in a good way. Michael Strasser (from ETH, Switzerland) is moving to Innsbruck, as a full professor. They are looking forward to welcoming him in Austria. W. Piller expressed his desire to give M. Strasser the duties as Austrian ESSAC delegate.

Germany, R. Stein

There was an IODP national meeting in Bonn with 200 people. There was a big IODP/ICDP event to present results with about 700 people from different Institutions. It is known that they have an IODP program to ask for funds to work on IODP/ODP materials. They received 44 proposals. Eighteen have been funded with 2.2 million. The main news is that Jan Behrmann, from Germany, is going to be the new ESSAC Chair. Finally, ACEX2 would be scheduled in 2018, as A. Stevenson mentioned. They will count with an in-kind contribution, including the Icebreaker Polarsten.

Norway, H.F. Kleiven

H.F. Kleiven is pleased that they have more Norwegian people sailing. There was a scientist from Statoil invited for Expedition 354 but he declined. She tried to explain to him that scientists participating in IODP expeditions do not have a salary while sailing. Soma Baranwal, from University of Tromsø, is sailing in Expedition 356. She is affiliated with the Norwegian Geological Survey, which means it is involved in the program finally. Two PhD students from Norway have been invited for Expedition 357 "Atlantis Massif". Finally Oslo is involved in the program also. H.F. Kleiven is happy and proud because they have 3 berths, filling out the quota. They are planning a meeting at the Research Council in fall 2015, involving several Institutions and the Norwegian Geological Survey (specially young people). They will try to send the message of how to be involved in IODP means to belong an international family, opening networks...etc. She would like to have a booth in annual meetings to promote IODP.

France, A. Le Friant

Four French scientists will participate in Expedition 357. There are 5 applications for Expedition 362 and 3 for Expedition 364. Although France is still under quota, the number of applications is increasing probably because the post research funding system has improved in France. There is a better dynamic now. Since Expedition 342, French Expedition participants have to send a proposal to IODP France to request funds for post-cruise research. Last year, there were two post-docs. Probably next year, there will be on post-doc, but it is still uncertain. In Spring 2016, the Geological Society of France (SGF) will organise a meeting, with a special session on IODP training. After the School of Rock organised by Jean Luc Berenguer, the teachers have met in Toulouse. G. Camoin and G. Ceulener are giving IODP talks in the "Observatoire Midi-Pyrénées" and this is why they are not in the ESSAC meeting. IODP and ICDP should merge in the next few months in France.

UK, A. Morris

UK has a Site Survey Initiative to support and evaluate proposals. The Panel met in February and the results were ready last week. Eight proposals were submitted, 6 passed to the final evaluation and 4 were funded with 2.5 million Pounds. These four proposals correspond to a total of 5 proposals and pre-proposals. A. Morris specially remarked about the support for proposal 781, as an offshore and onshore seismic experiment and the proposals 862 (2 proposals), with in-kind contributions as ship time. UK is investing in Knowledge Exchange Fellows. They hope to have benefits. Sally Morgan has received a 3-year Knowledge Exchange Fellow. UK is optimistic about improving the collaboration between Industry and Academics. Another piece of news is that IODP UK is producing a monthly e- Newsletter.

Italy, A. Argnani

There is a lot of interest by the Italian community to apply for IODP Expeditions. Currently there is a student sailing. The Italian participant of the Arabian Sea Monsoon Expedition did a videoconference with the University of Milano and was well attended. One Italian scientist has been invited to sail on Expedition 357. The documents for continuing the Italian participation in ECORD are in the IODP Italian Commission to be signed. Hopefully, it will include funds for post-cruise research. Currently there are not. Marco Sacchi is organising the next ECORD/ESSAC joint meeting in Naples (October). There will be a meeting of the Italian Geological Society in September. They are planning to have an IODP booth there.

Sweden, I. Snowball

Regarding IODP, things are running smoothly in Sweden. Milos Bartol sailed on Expedition 353. J. Henderiks is going to sail on Expedition 356. The 2nd post-cruise meeting of Expedition 347 will be in Sweden. He reminds us that there is not IODP National Office in Sweden and for this reason, there are no funds to organise the 2nd post-cruise meeting. They will need to apply to the National Research Council to get funds.

Finland, A. Kotilainen

Ninna Immonen, a student of Kari Strand has defended her thesis, working on ACEX Expedition materials. A. Kotilainen and the post-doc O. Hyttinen are still very busy working on 347 Expedition samples. Preliminary results of 347 Expedition were presented at EGU in April 2015. In addition, they have visited some Russian colleagues in January to present 347 preliminary results. The Academy of Finland has funded a project to work on 347 Expedition samples that involves Russian colleagues.

Ireland, X. Monteys

There is a new Geosciences program called ICRAAG that is led by University College Dublin. This program has a high component in Marine Geology and counts on funding of several millions. Hopefully ICRAAG will provide an impulse for marine geology projects. Ireland is still struggling to get Irish applications for IODP Expeditions. He is trying to get people involved in IODP Expeditions by giving talks in different institutions. The purpose is to attract and encourage potential applicants of IODP Expeditions.

An Irish scientist participated in the ECORD Bremen Training Course "Virtual Drillship Experience" in Bremen the past March 2015.

Portugal, A. Voelker

They are busy working on the Expedition 339 samples. The first manuscripts have been submitted. Clara Sena, from The University of Aveiro, has successfully finished her ECORD Research Grant. The good thing for IODP Portugal is that she is supervising an undergraduate student and hopefully, more people out of the University of Aveiro will get involved in IODP. One Portuguese scientist is going to participate in the Maldives Monsoon Expedition, once again in the field of Paleoceanography. They had an IODP Portugal community meeting in December. She was re-selected as ESSAC delegate and Luis Menezes Pinheiro, the current ESSAC alternate, will replace Fernando Barriga as ECORD Council Delegate. There will be an IODP day in Portugal the 3rd of November 2015 to promote IODP in Portugal. Two Distinguish Lecturers are coming to this meeting. Helder Pereira is organising a new School of Rock (SOR) in Loulé, Portugal (8-10 July, 2015). He is very happy with the feedback of other Teachers at Sea; Jean-Luc Berenguer (France) and Susan Gebbels (UK) will participate in the SOR. Markus Fingerle (Germany) will not be able to attend.

Israel, N. Waldmann

The contribution to ECORD comes from the Mediterranean Research Center of Israel, which is formed by a consortium of all universities. The good news is that there is a new ship coming. This ship will operate mostly in the Mediterranean, in front of Israel. It has several instruments to study the deep sea. During the last year Israel has been very active. He has been giving talks in different Institutions, trying to promote IODP among the community. There have been some “decision maker events”, looking for increasing the Israeli contribution to ECORD. They have an active website that is updated regularly. There are several working groups, working in parallel (i.e. in the university of Haifa and in the Ben Gurion university). Paola Vanucchi has been invited to give a DLP talk recently, which was very successful. There are 3 people working on IODP proposals. One Israeli scientist will participate in Expedition 359 and there is an Israeli application for Expedition 364.

Switzerland, G. Früh-Green

Switzerland has a small community but still receives new applications to participate in IODP Expeditions, which is important for the Swiss funding agency. Switzerland has to start thinking about renewing their contribution to ECORD (before fiscal year 2016). M. Strasser is moving to Austria, which is a loss for Swiss IODP. He has been the main driver of IODP Switzerland and will be missed. This year the national meeting will be held in September. The past August 2014, ECORD was present in the International Geological Congress at Geneva with a booth and a special session was organised at the Swiss Geoscience Meeting in Freiburg in November 2014. Swiss Drilling has a new website, updated regularly. IOPD and ICDP are the major focuses for Swiss Drilling. Scientists that have sailed in 2014 have provided reports that are posted on the website. Most probably there will be a post-doc scientist working on 357 materials in Zurich (pending funding).

4. Expeditions, Nominations and Staffing (1)

4.1 Staffing

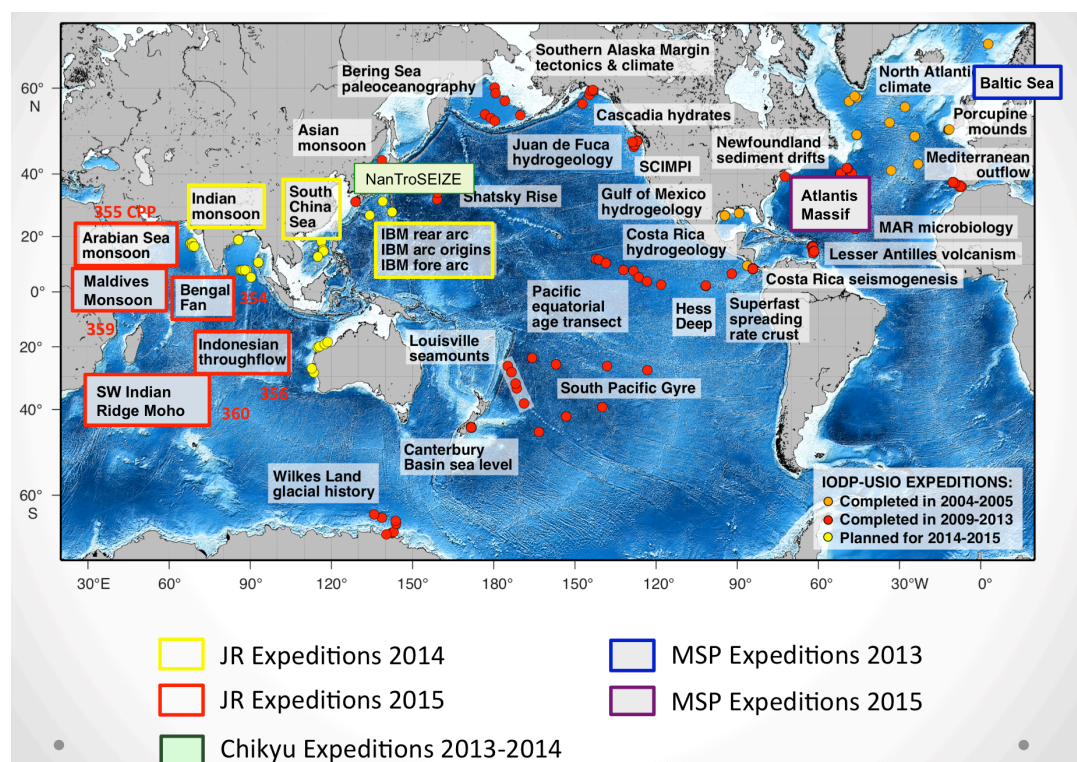
G. Früh-Green reported on Staffing ([Annexes 3a and 3b](#)).

4.1.1 Updates on expedition staffing and applications

4.1.2 Quotas, CPPs, in-kind contributions

4.1.3 Upcoming expedition deadlines and calls

Completed and Upcoming IODP Expeditions 2015



Upcoming IODP Expeditions Calls expected soon – Exp. 363 (Western Pacific Warm Pool) & 366 (Mariana Convergent Margin)

2014 Quotas

G. Früh-Green showed the ECORD participation on expeditions and projected quotas as of 10 May 2015 ([Annex 3b](#)).

In addition, G. Früh-Green presented statistics of participation by country and by stage in academic career for Exp. 349 through 353 (26 Jan 2014 –29 Jan 2015). The numbers of participants by expedition and by country for Exp. 349 to 346 were also presented ([Annex 4](#)).

JR Expedition 356: Indonesian Throughflow (31 July – 30 September 2015) Fremantle to Darwin, Australia

Co-Chiefs: Dhananjai Pandey & Peter Clift

Objectives: drill a latitudinal transect on the northwest Australian shelf (1) to understand the controls on Quaternary extra-tropical carbonate and reef deposition, (2) to chart the variability of the Australian monsoon and onset of aridity in NW Australia over the last 5 Myr, and (3) to document the spatial and temporal subsidence patterns along the NW shelf to constrain the interaction between Australian plate motion and mantle convection and ground truth geodynamic models.

18 valid applications – 9 ESSAC sailing

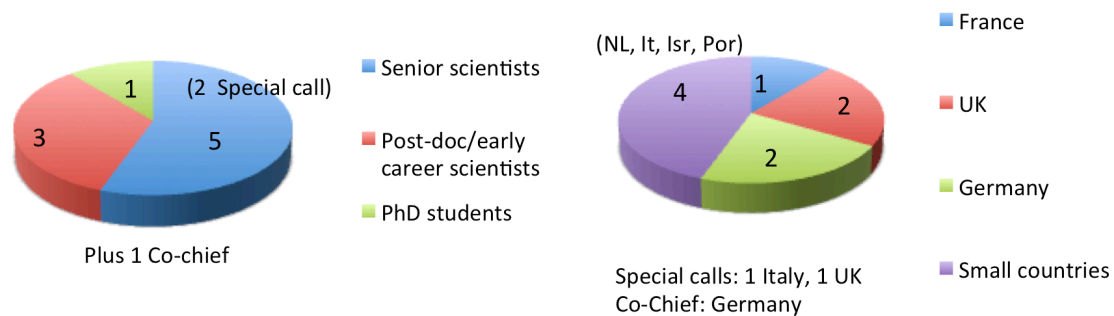
JR Exp. 359: Maldives Monsoon and Sea Level (30 September to 30 November 2015) Darwin, Australia to Colombo, Sri Lanka

Co-chiefs: Christian Betzler & Gregor Eberli

(Will not include Indian Peninsula APL - problem with Indian permitting)

Objectives: Drill 7 sites across the Maldives carbonate system from the inner-platform to the continental slope including drifts deposits to investigate Neogene Indian Ocean environmental change and the onset of the modern carbonate depositional system driven by fluctuations in sea level and ocean currents.

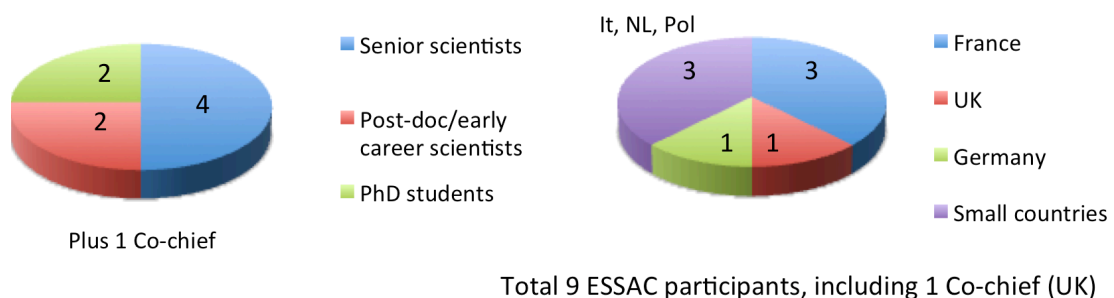
Total 10 ESSAC participants, including 1 Co-chief



JR Exp. 360: SW Indian Ridge Lower Crust and Moho (30 November 2015 to 30 January 2016) Colombo, Sri Lanka to Port Louis, Mauritius

Co-chiefs: Henry Dick & Christopher MacLeod

Objectives: the first of a two expedition program, will initiate drilling through the Atlantis Bank gabbroic massif 500 m into mantle near ODP Hole 735B. The two major objectives are (1) to recover the lowermost gabbros and crust-mantle transition to understand the processes creating mid-ocean ridge basalt, and (2) to resolve the controversy as to whether the Moho at slow spreading ridges can be a serpentinization front.



JR Exp. 361: Southern African Climates (Agulhas Current Density Profile APL) 30 January to 31 March 2016 Port Louis to Capetown, South Africa

Co-chiefs: Ian Hall & Sidney Hemming

Objectives: investigate the interaction between climate and the Agulhas Current during the Plio/Pleistocene to determine (1) the sensitivity of the Agulhas Current, (2) the dynamics of Indian-Atlantic gateway circulation, and (3) the connection between Agulhas Leakage and shifts of the Atlantic Meridional Overturning Circulation (AMOC) during major ocean and climate reorganizations of the past 5 Ma. Will include the Agulhas Current Density Profile ancillary project (845-APL), which will reconstruct temperature and salinity over a depth transect during the last

glacial maximum.

Total 10 ESSAC participants, including 1 Co-chief



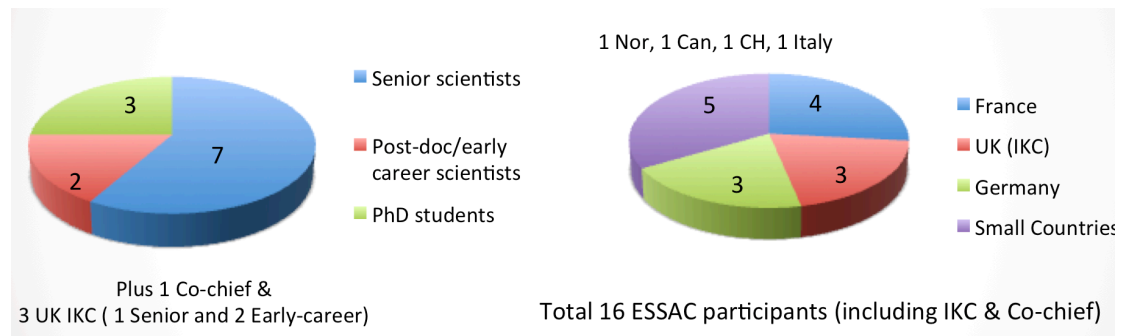
MSP Exp. 357: Atlantis Massif Serpentinization and Life (Offshore 24 October – 9 December 2015)

Co-chief Scientists: Gretchen Früh-Green (Switzerland) and Beth Orcutt

Total applications: 82

ECORD applications: 43 (11 Fr, 5 Ger, 11 UK, 3 Nor, 3 It, 3 CH, 2 Swe, 1 Aus, 1 Can, 1 NL, 1 Por)

> 50% female scientists in Onshore Science Party!



Webinar 357: 65 participants

Exp. 362 Sumatra Seismogenic Zone (31 July – 30 Sept. 2016)

Co-chiefs: Lisa McNeill (UK) & Brandon Dugan

Objectives: This expedition aims to establish (1) the initial and evolving properties of the North Sumatran incoming sediments and (2) their potential effect on seismogenesis, tsunamigenesis, and forearc development for comparison with global examples to better understand distinctive the slip behavior and long-term forearc structure leading to the 2004 Mw 9.2 earthquake and tsunami that struck North Sumatra and the Andaman-Nicobar Islands and devastated coastal communities around the Indian Ocean.

Total applications: 29

Senior Scientists: 1 Aus, 1, Den, 1 Fr, 1 Ger, 2 It, 1 Swe, 6 UK. Total: 13

Post-Docs & Early Career Scientists: 2 Fr, 2 Ger, 3 It, 2 UK. Total: 9

PhD Students: 3 Fr, 3 Ger, 1 It. Total: 7

Deadline to submit rankings: 22 May 2015.

Staffing is in progress.

Deadlines for Ranking MSP Exp. 364 Chicxulub Impact Crater (70 days – April to June 2016)

Co-chiefs: Joanna Morgan (UK) & Sean Gulick

IODP Expedition 364 will address questions related to large impact crater formation on Earth and other planets, and the effects of large impacts on the Earth's environment and ecology. The target is the unique Chicxulub impact crater, Mexico, which is the only known terrestrial impact structure that has been directly linked to a mass extinction event (the K-Pg mass extinction).

31 Total applications – Senior Scientists: 16; Early career scientists: 7; Students: 8

4.2 ECORD Facility Board Report

G. Früh-Green gave a report on the ECORD Facility Board.

Proposals Discussed at the EFB meeting Aix-en-Provence, 25-26 March 2015

MSP proposals at SEP and EFB

order according to relative maturity

Status: 14 Jan 2015

Proposal	Short Title	Proponent	Country	Ocean	Drill Platform	Status
at EFB:						
758-Full2	Atlantis Massif	Früh-Green	Switzerl.	Atlantic	seabed drill	03/14: scheduled for 2015 (Exp 357)
548-Full3, Add	Chicxulub Crater	Morgan	UK	Atlantic	lift-boat, jack-up rig	07/14: scheduled for 2016 (Exp 364)
813-Full, Add	E-Antarctic Paleoclimate	Williams	USA	Southern	seabed drill	07/14: scheduled for 2017 (more likely 2018)
708-Full	Arctic Paleooceanography	Stein	Germany	Arctic	drill ship	03/14: submit addendum to EFB
581-Full2	Coralgal Banks	Droxler	USA	Atlantic	geotech rig or seabed drill	03/14: EFB holding bin
716-Full2	Hawaiian Drowned Reefs	Webster	Australia	Pacific	geotech rig or MeBo200	03/14: EFB holding bin
637-Full2, Add	New England Hydrogeology	Person	USA	Atlantic	drill rig	03/14: EFB holding bin

at SEP:						
879-Full	<u>Corinth Active Rift Development</u>	McNeill	UK	<u>Mediterr.</u>	<u>drill ship</u>	01/15: <u>external review</u>
866-Pre	<u>Japan Trench Paleoseismology</u>	Strasser	<u>Switzerl.</u>	<u>Pacific</u>	<u>long-piston coring</u>	01/15: <u>revise</u>
ADP / 796-Full	<u>NADIR Nice Amphib. Drilling Ligurian Landslide</u>	Kopf	Germany	<u>Mediterr.</u>	<u>geotech rig; MeBo</u>	01/15: <u>submitted to ICDP</u> 05/12: <u>revise</u>
730-Full	<u>Sabine Bank Sea Level</u>	Taylor	USA	<u>Pacific</u>	<u>MeBo200</u>	06/14: <u>revise</u>
857-MDP2*	<u>DREAM Mediterr. Salt Giant</u>	<u>Camerlenghi</u>	<u>Italy</u>	<u>Mediterr.</u>	<u>(JR & Chikyu)</u>	01/15: <u>submit daughter prop.</u>
857A-Pre*	<u>DREAM-GOLD</u>	<u>Rabineau</u>	<u>France</u>		<u>Chikyu</u>	06/14: <u>submit full prop. to CIB</u>
863-MDP	<u>ISOLAT S-Ocean Paleoclimate</u>	Peterson	USA	<u>Southern</u>	<u>long-piston coring</u>	06/14: <u>submit daughter prop.</u>
852-Pre	<u>North Sea GlaciStore</u>	Stewart	USA	<u>Atlantic</u>	<u>drill rig</u>	06/14: <u>submit full prop.</u>
812-Pre	<u>Ross Sea Glacial History</u>	Wilson	USA	<u>Southern</u>	<u>seabed drill</u>	12/12: <u>submit full prop.</u>
806-Pre	<u>Beaufort Gas Hydrate</u>	Paull	USA	<u>Arctic</u>	<u>geotech rig</u>	05/12: <u>submit full prop. or MDP with 797</u>
797-Pre	<u>Alaska Beaufort Margin</u>	<u>Ruppel</u>	USA	<u>Arctic</u>	<u>drill rig (or JR)</u>	05/12: <u>submit full prop. or MDP with 806</u>
680-Full	<u>Bering Strait Climate Change</u>	<u>Fowell</u>	USA	<u>Arctic</u>	<u>lift-boat, jack-up</u>	12/11: <u>revise</u>
761-Pre	<u>South Atlantic Bight Hydrogeology</u>	Wilson	USA	<u>Atlantic</u>	<u>geotech rig; jack-up</u>	12/11: <u>submit full prop.</u>
756-Pre	<u>Arctic Ocean Exit Gateway</u>	<u>Jakobsson</u>	<u>Sweden</u>	<u>Arctic</u>	<u>drill ship (JR?)</u>	12/11: <u>submit full prop.</u>
750-Pre	<u>Beringia Sea Level History</u>	<u>Polyak</u>	USA	<u>Arctic</u>	<u>drill rig (JR?)</u>	12/11: <u>submit full prop.</u>

14 total proposals at SEP

Scheduled MSP Expeditions as discussed at the EFB meeting Aix-en-Provence, 25-26 March 2015

2014	2015	2016	2018	2018
(none)	758 Atlantis Massif	548 Chicxulub	813 Antarctic	708 Arctic
	Seabed drills (MeBo & RD-II)	Drill platform	Seabed drill (RD-II)	Drillship
	~US \$ 3.5 – 4 M IKC	Max. US \$ 8.5 M IKC + co-funding	Max. US \$9 M No IKC	Max. US \$15 M IKC + co-funding
		Drilling depth maybe reduced	Pay for ice breaker	On-going discussions about sites & depth

Amphibious Drilling Proposals (ADPs)

ADPs can only be accomplished by drilling both onshore (ICDP) and offshore (IODP, mostly through ECORD)

796 Full: Landslide geohazards : Testing multiple trigger mechanisms at the Ligurian slope (A. Kopf et al.)

NADIR : Nice Amphibious Drilling, in situ monitoring and risk analysis (A. Kopf et al.)

MAGELLANPLUS WORKSHOP SERIES (ADP Workshop Proposals)

ICDP: 10,000 Euros

ECORD: 10,000 Euros

4.3 SEP update

W. Piller gave an update on SEP and presented the statistics of proposal submissions, as showed in [Annex 5](#).

3rd JR Facility Science Evaluation Panel Meeting (SEP, FB) (12 – 14 January 2015)

UCSD Scripps, Ja Jolla, CA USA

SEP ECORD members

Dick Kroon, UK (chair)

Science

Steven Bohaty, UK

Jörg Geldmacher, Germany

Maguerite Godard, France

Marc-André Gutscher France

Verena Heuer, Germany

Lisa McNeil, UK

Matt ORegan, Sweden

Werner Piller, Austria

Site Survey

Serge Berné, France

Mads Huuse, UK

Sebastian Krastel, Germany

Dave Mosher, Canada

Gabriele Unzelmann-Neben, Germany

Watchdogs prepare reviews of proposals.

Revised Proposals (8 – 1 MDP, 1 - APL)

Prpsl#	Type	Title	WD1	WD2	WD3	WD4	WD5	
618	Add5 (Full3)	East Asia Margin	Hovan	Marsaglia	Uenzelmann- Neben	Mallinson	Malone	FB
770	Add (Full3)	Kanto Asperity Project: Observatories	McHugh		Uenzelmann- Neben	Long	Malone	HB
771	Full2	Iberian Margin Paleoclimate	Romans	Piller	Berne	Ashi	Zarikian	ExRe
818	Full	Brothers Arc Flux	Godard	Sun	Pockalny	Vrolijk	Malone	rev
835	Full	Japan Trench Tsunamigenesis	Gutscher	McNeill	Austin	Gulick	Eguchi	rev
866	Pre	Japan Trench Paleoseismology	McNeill	Brown	Krastel	Vrolijk	Morgan	full
841	APL2	Creeping Gas Hydrate Slides	Obana	Heuer	Clennell	Mosher	Malone	HB
857	MDP2	DREAM: Mediterranean Salt Giant	Teske	Sylvan	Berne		Eguchi	

in SEP, develop daughter proposals

External Reviews (2)

Prpsl#	Type	Title	WD1	WD2	WD3	WD4	WD5
865	Full	Nankai Trough Temperature Limit	Teske		Sun		Eguchi
760	Full	SW Australia Margin Cretaceous Climate	Miller	Hasagawa	Austin	Ding	Kulhanek

New Proposals (19, 2 – CPP, 1 APL)

Prpsl #	Type	Title	WD1	WD2	WD3	WD4	WD5	
884	CPP	Southern Australia Cretaceous Anoxia	Hasegawa	Miller	Flood	Mallinson	Malone	rev
867	Pre	Red Sea Plio- Pleistocene	Christensen	Hovan	Pockalny	Clennell	Morgan	DA
869	Pre	Pacific Meridional Overturning Circulation	Tian	Bohaty	Krastel		Zarikian	DA
870	Pre	Rio Grande Rise Origin	Morishita	Kimura	Ding		Klaus	DA
871	Pre	Lord Howe Rise Crustal Evolution	Ferre	Geldmacher	Sawyer	Lee	Eguchi	DA
872	Pre	Manus-Basin sulfide deposit	Sun	Godard	Vrolijk	Krastel	Zarikian	DA
873	Pre	Drake Passage Plio- Pleistocene paleoceanography	Bahk	Bohaty	Lee		Kulhanek	DA

Next Meeting:

4rd JR Facility Science Evaluation Panel Meeting 29 June - 1 July 2015 Institut Universitaire Europeen de la Mer (IUEM), Brest, France

5. Education and outreach – updates and outstanding issues (1)**5.1 ECORD Summer Schools/courses - update & applications 2016**

J. Gutierrez-Pastor reported about the ECORD Summer Schools 2016 applications.

Summer Schools 2014

Successful Urbino and Bremen Summer Schools 2014: Reports in the November ECORD Newsletter

Summer Schools 2015 – Budget € 20,000

- Urbino Summer School in Paleoclimatology 2015, July 15- August 1, 2015
- ECORD Bremen Summer School 2015 Ocean crust processes: magma, faults, fluxes and life, MARUM, August 31- September 11, 2015
- ECORD Scholarships Call announced through the mailing lists, AGU, Facebook...
Deadline 23 March 2015. Only for ECORD Students, Budget € 15,000
- Call to host ECORD Summer Schools 2016 Deadline to apply: 5 May, 2015

ECORD Training Course 2015, Budget € 7,500

- 56 applications: PhD students, Postdocs, Researchers, and Master Students
- 17 different Countries
- Accepted 30 participants from ECORD and non-ECORD Countries
- Organiser's criteria of selection: compatibility of the applicants professional training and their career status (e.g., for some of the Masters students it is too early). They also considered that the training course is more important for early career geoscientists than for a teacher or a technician running a chemistry lab.
- *Report in the April Newsletter!*

International School of Foraminifera 2015 (Urbino, 3-22 June, 2015)

- ISF is funded with € 5,000 to support 4-5 ECORD students to attend the course
- ISF will offer support for travel & accommodation
- The ESSAC office will require a Summer School Report to the organizers and a selected ECORD student for the November Newsletter

Summer Schools Applications 2016

- Urbino Summer School in Paleoclimatology 2016, July 2016
Request: 20.000 €
- ECORD Bremen SummerSchool 2016 Submarine Geohazards: Mapping, Monitoring, and Modelling”, MARUM. Usually in September
Request: 12.500 €
- ECORD Training Course 2016 “Virtual Drillship Experience”, MARUM. March 2016. Request: 7.000 €

- ECORD Summer School: Petrophysics (physical properties of ocean sediments and basement from downhole logs and core), Department of Geology at the University of Leicester, UK. June-July 2016. Request: 10.000 €

For discussion: Budget € 20,000 + 7000 or... Do we need to ask for more in the 2016 ESSAC Budget?

J. Gutierrez-Pastor gave details about the new Summer School proposal:

ECORD Summer School: Petrophysics

Concept

ECORD Summer School “Petrophysics”: Unique workshop that will bring together experts from both academia and industry to give training in the theory and practice of petrophysics and, notably its applications across both IODP and industry.

Research Topics

- Downhole logging: in situ, continuous measurements that can be used to determine the physical, chemical, and structural properties of the formation penetrated by a borehole
- Physical properties measurements: density, velocity, resistivity, magnetic susceptibility, natural gamma radiation, porosity and colour reflectance datasets
- Hole-to-hole correlation

Budget plan		
Costs:		
	£	€*
Travel & subsistence for tutors/lecturers	16,000	24,000
Staff costs for event organisation	4,500	6,750
Conference facilities & materials	5,000	7,500
Workshop dinner	1,000	1,500
Downhole logging practical/fieldtrip	4,000	6,000
TOTAL	30,500	45,750

*Conversion rate of 1.5 has been used

Other sources of funding may include:

- NERC UK IODP Knowledge Exchange Fellowship.
- Applications to Industry bodies such as SPWLA, LPS and AFES.
- Support from UK IODP.
- A course fee will be charged to participants to secure their place.

5.2 ECORD Grants and Scholarships update and applications 2015

J. Gutierrez-Pastor presented the ECORD Scholarships and Grants 2015 applications.

Criteria to rank Scholarships

ESSAC has agreed that the ranking of the applications should be based on the following criteria (listed in order of priority):

- Letter of motivation
- Letter of support

- CV

- no preference will be given to PhD students vs MSc (just consider quality of the application)

Conflict of Interest (COI): The reviewer and the grant applicant cannot be from the same institution, or be associated with the applicant. We should also take into consideration "apparent" COIs, which can be situations in which a reasonably well-informed, impartial observer may perceive that a potential Conflict of Interest exists or could exist.

Urbino Ranking done by **A. Argnani and M. Kienast.**

Bremen Ranking done by **A. Kotilainen.**

Scholarships Applications 2015 - Budget € 15,000

Bremen:

Total Applications: 23

Countries	# Applic.
Canada	2
France	8
Germany	3
Italy	2
Norway	1
Poland	3
Sweden	2
UK	1
Czech Republic (non-ECORD)	1

Urbino:

Total Applications: 33

Countries	# Applic.
Austria	1
Canada	2
France	7
Germany	5
Israel	2
Italy	1
Norway	1
Portugal	1
The Netherlands	5
UK	8

Discussion

Topics of discussion Scholarships (by X. Monteys):

- Funds (15K)

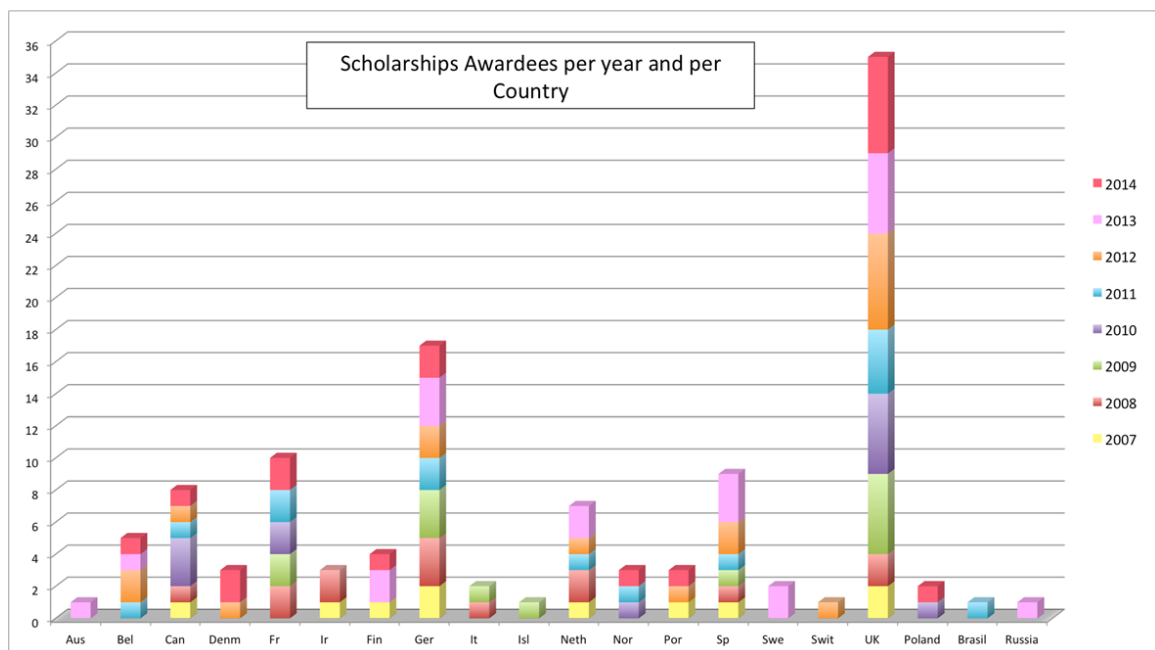
How to be distributed between the Summer schools:

- 50/50 funds?
- Same number of applicants?
- Other?
- Amount per applicant
- Ranking:

Country Balance:

- Should we consider country balance based on the ranking outcome?
- Other sources of funding to be considered/
- Should applicants invited to upcoming expeditions be favoured?

J. Gutierrez-Pastor presented a summary of the Scholarships Awardees per year and per country since 2007.



Grants Applications 2015 - Budget € 15,000

Total Applications: 13 (6 UK, 3 France, 1 Canada, 1 Italy, 1 Norway, 1 Portugal)

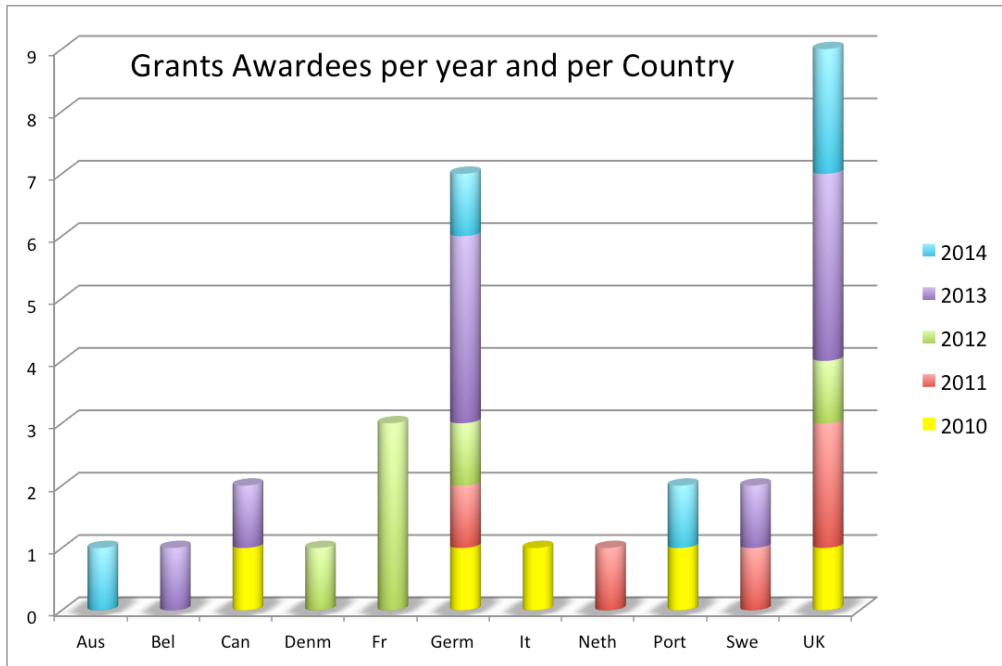
ECORD Research Grants **ONLY** for ECORD Applicants

Criteria to rank ECORD Research Grants

ESSAC agreed that...

- The ECORD grants typically do not exceed €2000
- The Grants should prioritize work on Ocean Drilling Programs (i.e. DSDP, ODP, IODP) material by early career scientists;
- The applicant must be either enrolled in a Masters or PhD program or be employed as a post-doctoral research at an institution in an ECORD country;
- Preference should be given to working in laboratories outside the home lab and to establishment of new collaborations;
- And should request a letter of support from the host institution not just the home laboratory

J. Gutierrez-Pastor presented a summary of the Grants Awardees per year and per country since 2007.



5.3 Teachers at Sea

J. Gutierrez-Pastor gave an update about the Teachers at Sea program.

TEACHERS AT SEA 2014

Lesley Allen (UK) sailed on the Izu Bonin Rear Arc Expedition 350.

Markus Fingerle (Germany) sailed on the Expedition 353 Indian Monsoon Rainfall.

While at Sea, they were in charge of reporting Blogs and educational activities, such as video-conferences.

TEACHERS AT SEA 2015

Diane Hanano (IODP Canada Science coordinator) sailed on 354 Expedition Bengal Fan.

J. Gutierrez-Pastor reminded to the attendance the following ESSAC Consensus from the past ESSAC meeting:

ESSAC CONSENSUS 1410-07: ESSAC approves to add a budget item for ECORD "Teachers at Sea". ESSAC shall request € 5,000 for travel support, assuming an average of 2 teachers/year participate on *JR* expeditions.

- Diane Hanano presented a proposal to request 1500 € from ESSAC. She would be co-funded with IODP Canada.
- The ESSAC office asked to Xavier Monteys to lead a discussion by email with the E&O subcommittee about how to distribute the teacher's funds every year.

After the e-mail discussion the final Consensus was:

1. The funds should be for travel support only: flights, local transport, accommodation and meals
2. Expenses report and brief summary of activities (after the trips)

3. Limit per teacher up to approx. 1500 €
4. Desired level of co-financing by National Office

Finally, ESSAC approved the Diane Hanano request of 1500 €.

We can advertise, in upcoming ECORD Teacher Calls, the possibility of travel support to encourage teachers from other countries to apply (i.e different from UK, France, Canada...)

No Open Calls at the moment!

A new ECORD School of Rock (SOR) is being organized by Helder Pereira in Portugal.

5.4 Upcoming E & O calls 2015 and Outreach activities

J. Gutierrez-Pastor presented the upcoming E&O Calls.

Open Calls

ECORD/ICDP MagellanPlus Workshop Series Programme: Call for proposals (Deadline to apply: July 1, 2015) <http://www.ecord.org/magellanplus.html>

Newsletter # 4: Published in April 2015

ECORD Annual Report 2014: Published in March 2015

5.5 ECORD Publication Database

T. Bingham presented a summary of the findings and progress in the creation of an ECORD publication database.

ECORD Publication Data Management System

- Goals & target groups
- Background - existing systems, current and proposed ESSAC / EMA methodology for publication retrieval and information compilation
- Possible solutions: Analysis and Evaluation
- Results & considering Killer Criteria
- Two systems: Compiling data & testing phase
- Future: implementation and running the publication management system

Goals and Target groups

- Data management system goals: To provide open access of IODP, ODP, & DSDP publication information
 - Titles, authors, expeditions, journals, publishers, affiliation countries etc.
- Target groups - scientists, students, administrators, managers, government officials from funding agencies and industry participants from ECORD member countries
 - Non-technical users who seek specific information & expect it to be complete and properly categorized

Background

ESSAC web-site

- Program language: PHP & PIP
- Mark-up language: HTML 4.01

Existing publication databases: Examples

- ECORD ESSAC site: German and French publications & ECORD databases
- ESO-SEDIS database
- IODP/ECORD databases

- IODP citation database

Priorities & Methodologies Zurich meeting results

- Database Priorities (selection criteria)
 - No costs
 - Non-technical maintenance
 - Easy to use for administrators & users
- Data compilation
 - Publication search methodology – Derive lists from: ESSAC members, expedition science party, sampling requests, ECORD delegates, etc.
- Feeding the database –
 - Copy/paste of data compiled to excel
 - Import from excel or enter manually

System Design Constraints

- Meet the needs of the target groups
- Interface with the ESSAC web-site (problematic): non-technical administrators & users
- Free & low maintenance
- Utilize the most up-to-date advances in publication referencing management technologies! Allow aggregation!
- Sustainable & maximum freedom of use
 - In compliance with copyright licenses!

The following four items are illustrated in [Annex 6](#).

- Current Publication Retrieval Results
- Simple Data Management System
- Specification & Flow Database System
- Reference Data System Comparison & Ranking

Criteria for Evaluation

- Operating systems
- Database interconnectivity
- Information management approach
- Compatibility
- Management of references
- Text & PDF processing ability
- Social network/social tags
- Synchronization & collaboration
- Literature search approach / aggregation
- Openness/freedom/Cost

Zotero

- Examples:
 - Basic: Requires no IT skills to operate
 - firefox
 - Extended: Requires extensive programming skills

- Browser: Firefox as a plug-in, Safari, or Chrome, Not functional with Internet Explorer
- Specifications: Version Firefox, Zotero plug-in Zot-life plug-in
- File import/export: Scifinder, XML, ENDNOTE, BibTeX, RIS, ISI Web of Science, CSA Illumina, RefWorks, MODS XML, OpenOffice, and MS Word
- Metadata import: end-note, Zotero icon, CrossRef.org, arXiv records, IDs, DOIs or OpenURLs, & PURLs

RefBase Data Management System

- Examples:
 - Basic: Requires minimum IT skills to operate
 - [RefBase demo](#)
 - Extended: Requires extensive programming skills
 - [Census of Marine Life](#)
- Browser: Firefox, IE (Explorer), Safari, Chrome, or no external browser
- Specifications: Version 9.6 RefBase, Apache server, MySQL
- File import/export: Scifinder, XML, ENDNOTE, BibTeX, RIS, ISI Web of Science, CSA Illumina, RefWorks, MODS XML, OpenOffice, and MS Word
- Metadata import: CrossRef.org, arXiv records, IDs, DOIs or OpenURLs, & PURLs
 - CrossRef.org Example: Fetch a specific DOI for [Prof. Früh-Green](#).

Testing phase/Implementation phase

Search	Import	Testing completion date	Finish
Zotero Web of Science Science Direct Nature	End-note BibTex Croos.org Ax.org	June 15, 2015	August 15, 2015
RefBase Web of Science Science Direct Nature	BibTex Croos.org Ax.org XML Mod	June 30, 2014	September 1, 2015

5.6 ESO Outreach & Public Relations

A. Stevenson reported about ESO Outreach and public relations.

Scheduled MSP expeditions

- Exp. 357 Atlantis Massif Seafloor Processes
- Exp. 364 Chicxulub K-T Impact Crater
- Proposal 813 Antarctic Cenozoic Paleoclimate
- Proposal 708 ACEX 2

Atlantis Massif

- Draft Communications Plan has been sent to the Co-chief Scientists;
- Albert Gerdes took part in the expedition planning meeting held in Edinburgh on 23rd February 2015;

- Information to include in the expedition flyer and web pages on the ESO website provided by Co-chiefs;
- EGU: Fact sheet distributed at ESO booth and interview held with Co-Chiefs and Jonathan Amos (BBC)
- Media briefing will be held at the London Foreign Press Centre on 22 October, with options for press meetings in Southampton on 23 October.
- Will work closely with the communications specialists at the Co-Chief Scientists' universities and those of the science party;
- Co-Chiefs will provide video material that may be used to publicise the expedition, and as part of media packs etc;
- As the vessel being used is the NERC Research Vessel, the *James Cook*, the team will liaise closely with the media officer at the UK National Oceanography Centre and the Natural Environment Research Council.

Chicxulub K-T Impact Crater Expedition

- Alan Stevenson attended Chicxulub Drilling Workshop in Merida, Mexico 28 March-1 April to lead discussion on outreach
- Media conference held at the Gran Museo del Mundo Maya in Merida (and press release) to publicise the workshop and expedition science and to:
 - help the permitting process, relations with the Yucatan government, environment ministry, national institute of ecology;
 - to highlight the contribution from the Secretary of Education; prepared in Spanish and English.
- Outreach contacts for the expedition include the Communications Director at UT Jackson School, and the Media Officer at Imperial College, London (the Co-Chiefs' universities), the press group at Centro de Investigacion Cientifica de Yucatan in Merida, the press group at the Universidad Nacional Autonoma de Mexico in Mexico City;
- It is also possible that there would be a link to the Academia Mexicana de Ciencias (the Mexican National Academy) and the Royal Society in the UK;
- The Gran Museo del Mundo Maya in Merida and SIIDETEV Science Park are both hosting exhibit on the Chicxulub impact structure.

Main target audiences

- Interact positively with media & general public to demonstrate benefits of MSP expeditions
- Maximise expedition`s publicity impact among the public and the scientific community
- Strengthen links between IODP/ECORD community and the international media

Conveying message

- ECORD web pages
- Expedition flyer
- ECORD folder
- Booths at EGU/AGU
- Media packs
- Press conferences
- Media releases
- Media day at Onshore Science Party
- Science Party organisations' websites etc

6. Breakout Sessions

6.1 Introductions

Introductions were provided by G. Früh-Green to guide discussions.

1) The Nominations and Staffing Subcommittee:

Gretchen Früh-Green (ESSAC Chair, CH), Lucas Lourens (Coordinator, NL), Dominique Weis (CDN), Georges Ceuleneer (F) = **Anne Le Friant**, Bridget Wade (UK) = **Antony Morris**, Rüdiger Stein (D) Aarno Kotilainen (FIN), Antje Voelker (P), Julia Gutierrez Pastor (ESSAC Science Coordinator, CH).

2) The Education and Outreach Subcommittee:

Xavier Monteys (Coordinator, IRE), Gretchen Früh-Green (ESSAC Chair, CH), Julia Gutierrez Pastor (ESSAC Science Coordinator, CH), Nicolas Waldmann (IS), Andrea Argnani (I), Helga. F. Kleiven (N), Werner Piller (AU), Marit-Solveig Seidenkrantz (DK), Ian Snowball (S), David Vaan Rooij (B), Szymon Uscinowicz (POL).

General Tasks:

1) The Nominations and Staffing Subcommittee:

- Suggest nominations of ECORD representatives on the Science Advisory panels, facility boards and other planning groups.
- Co-ordinate applications review all the applications and suggest nominations of shipboard participants.
- Review the quota of shipboard scientists between participating countries.
- Suggest co-chief nominations for IODP Expeditions.

2) The Education and Outreach Subcommittee:

- Develop educational opportunities/programs: e.g. Teacher's workshops, Summer Schools etc., especially for non-traditional audiences.
- Review Summer School proposals - make proposal.
- Review applications and suggest recipients for ECORD scholarships.
- Provide new ideas regarding ways to raise funds for E&O activities.
- Advise on public outreach activities (societal relevance of IODP science).

G. Früh-Green reminded the delegates the criteria to rank and evaluate ECORD Scholarships and ECORD Grants showed in item 5.2.

G. Früh-Green suggested assigning the task of evaluating the ECORD Research Grants to the Nominations and Staffing Subcommittee because there was less volume of items to discuss for this subcommittee this time.

Issues with Ranking Process

- Need national delegates to provide information and evaluations of candidates prior to ranking - especially when there are many candidates from one country.
- Need higher degree of participation in ranking & evaluation process, not only with staffing but also summer schools and grants
- Can we distribute the load?
- Involve alternates and National Office representatives?
- How do ensure that countries do not go to far under- or over-quota?

7. Education and outreach (2) – Breakout reports & discussion

7.1 E&O Subcommittee report, discussion and future actions

X. Monteys reported on the E&O subcommittee discussions and gave an overview of future actions, as showed in following items.

7.2 ECORD Summer Schools 2016 update & selection

X. Monteys presented present the proposal of selected ECORD Summer Schools 2016.

Initially, the E&O subcommittee agreed to request € 10,000 per each ECORD Summer School 2016 (in total € 30,000). Requesting € 10,000 more to ECORD for a new Summer School would mean to strongly increase the ESSAC budget. Hence, after discussion with all ESSAC delegates the following actions and consensus were reached:

> **ESSAC Action Item 1505-03:** The ESSAC Office shall contact the main proponents of the newly proposed ECORD Summer School in 2016 “Summer School in Petrophysics (physical properties of ocean sediments and basement from downhole logs and core)” in Leicester to have more details about the proposal (such as a detailed budget and amount requested, number of teachers, sources of funding, etc). This information will allow the ESSAC delegates to make a second evaluation of the proposal by email. *Done.*

> **ESSAC Action Item 1505-04:** After receiving more details about the organisation and budget of the 1st ECORD Summer School in Petrophysics, the ESSAC Office will initiate a discussion by email among the ESSAC delegates and/or or Education and Outreach Subcommittee to have the final approval for funding. *In progress.*

> **ESSAC Action Item 1505-05:** ESSAC intends to request € 25,000 to the ECORD Council to fund ECORD Summer Schools 2016.

ESSAC CONSENSUS 1505-06: If the € 25,000 budget is approved by the ECORD Council, ESSAC approves the funding of € 10,000 each for two ECORD Summer Schools in 2016: the ECORD Bremen Summer School 2016 “Submarine Geohazards: Mapping, Monitoring, and Modelling” and the ECORD-Urbino Summer School in Paleoclimatology 2016. ESSAC also reserves € 5,000 to fund the new proposed ECORD Summer School in 2016: Petrophysics (physical properties of ocean sediments and basement from downhole logs and core) in Leicester, should the ESSAC delegates and E & O subcommittee make the recommendation to accept the proposal for this summer school.

ESSAC CONSENSUS 1505-07: If the € 25,000 budget is NOT approved by the ECORD Council, ESSAC will consider the funding of € 7,500 each for the ECORD ECORD Bremen Summer School 2015 “Submarine Geohazards: Mapping, Monitoring, and Modelling” and the ECORD-Urbino Summer School in Paleoclimatology 2016, reserving € 5,000 for the 2016 ECORD Summer School in Petrophysics in Leicester, should the ESSAC delegates and E & O subcommittee make the recommendation to accept the proposal for this summer school.

> **ESSAC Action Item 1505-07:** The ESSAC Office shall communicate the outcome of the selection of the ECORD Summer Schools 2016 to the main proponents of the proposals.

In addition, X. Monteys presented the result of the discussion regarding to fund the ECORD Training Course 2016 in Bremen.

A. Voelker detected an anomaly in the budget table presented in the proposal:

> **ESSAC Action Item 1505-09:** The ESSAC Office shall request a new budget from the main proponents of the ECORD Training School 2016 (Bremen) to clarify some inconsistency between the budget numbers and total amount requested. *Done.*

ESSAC CONSENSUS 1505-10: ESSAC approves the funding of € 6,500 for the ECORD Training Course 2016 in Bremen.

7.3 ECORD Grants and Scholarships 2015

7.3.1 Discussion of awards

X. Monteys presented the proposal of selected **ECORD Scholarships 2015** applicants. Possible co-funding of some applicants and the different registration fees of the summer schools were decisive in the amount awarded. The registration fee for the ECORD Bremen Summer School is € 150 and for the Urbino Summer School is € 600. The highest quality of the applications and the country balance is always considered.

ESSAC CONSENSUS 1505-09: ESSAC selects 26 awardees of ECORD Summer School Scholarships 2015: 8 awards of € 900/student (3 UK, 2 Germany, 1 France, 1 The Netherlands and 1 Austria) and 2 awards of € 600/student (2 Canada) for the Urbino Summer School in Paleoclimatology 2015; and 12 awards of € 500/student and 4 awards of € 200/student for the ECORD Bremen Summer School 2015 " Ocean crust processes: magma, faults, fluxes, and life" (6 France, 3 Germany, 2 Canada, 2 Italy, 1 Norway, 1 Poland and 1 Sweden).

> **ESSAC Action Item 1505-06:** The ESSAC Office shall communicate to the applicants the outcome of the selection of the ECORD scholarships and grants. *Done.*

ECORD Scholarships Bremen Summer School 2015

PROPOSAL (Euros)	Name	Country	Institution
500	Amann, Méderic	France	University of Strasbourg, Institut de Physique du Globe
500	Berno, Davide	Italy	University of Pavia
500	Ciążela, Jakub	Poland	Institute of Geology, Adam Mickiewicz University
500	Patten, Clifford	Sweden	Stockholm University, Department of Geological Sciences
500	Seyedali, Minasadat	Canada	School of Earth and Ocean Sciences at University of Victoria

200	Basch, Valentine	Italy	UNIGE University of Genova
200	Dunkel, Kristina	Norway	University of Oslo, Norway
200	Escario, Sofia	France	Geosciences Montpellier
200	Ferrando, Carlotta	France	Geosciences Montpellier
500	Keith, Manuel	Germany	GeoZentrum Nordbayern, Universität Erlangen-Nürnberg
500	Kemner, Fabian	Germany	GeoZentrum Nordbayern, Universität Erlangen-Nürnberg
500	Teboul, Pierre-Alexandre	France	Aix-Marseille University
500	Thompson, Joseph Offei	France	IFREMER, Brest
500	Tian, Zhu	Canada	University of Victoria, Victoria, British Colombia
500	Weinzierl, Christoph Günther	Germany	GeoZentrum Nordbayern, Friedrich-Alexander-Universität Erlangen-Nürnberg
500	Wessels, Richard	France	University Pierre and Marie Curie-Paris (UPMC) and IFP Energies nouvelles (IFPEN)
TOTAL 6.800			

ECORD Scholarships Urbino Summer School 2015

PROPOSAL (Euros)	Name	Country	Institution
900	Detlef, Henrieka	UK	School of Earth and Ocean Sciences, Cardiff University
900	Menke, Valerie	Germany	University of Hamburg, Center for Earth System Research and Sustainability
900	Obreht, Igor	Germany	RWTH Aachen University
900	O'Connor, Lauren	UK	University of Oxford
600	Phillips, Anna	Canada	University of Toronto
900	Scharder, Cindy	The Netherlands	Utrecht University and the Netherlands Earth System Science Centre (NESSC)
900	Sparkes, Amy	UK	Cardiff University
900	Tetard, Martin	France	CEREGE, Aix Marseille University
600	Tsang, Man-Yin	Canada	University of Toronto, Department of Earth Sciences
900	Wolfgring, Erik	Austria	University of Vienna
TOTAL 8.400			

N. Waldmann suggested creating a questionnaire online for the ECORD awarded students to get feedback after the ECORD Summer School. N. Waldmann and J. Henderiks started to elaborate the possible list of questions during the meeting.

> **ESSAC Action Item 1505-08:** The ESSAC Office shall create an online questionnaire for the students that attended the ECORD Summer Schools. The purpose is to get feedback about their degree of satisfaction with the schools. The

questions of this questionnaire should be circulated and approved by the ESSAC Education and Outreach Subcommittee.

G. Früh-Green presented the proposal of selected **ECORD Grants 2016** applicants.

Once more, G. Früh-Green reminded the delegates of the criteria to rank and evaluate ECORD Grants shown in item 5.2.

G. Früh-Green remarked that the ECORD grants are intended to promote new collaborations and the possibility to acquire new expertise that may be outside of the applicant's current project and/or not available at the applicant's current institution (i.e, home institution). The ECORD grants do not cover studies that are a normal part of the applicant's PhD project or post-doctoral research and which should be covered by the home institution or personal project funding. In addition, other possible sources of funding have to be considered. Everyone agreed on this.

Because of the low number of rankings this time (only 6) and the fact that one selected application did not meet the general guidelines for ECORD grants, G. Früh-Green requested that the discussion to select awardees be re-opened by email after the ESSAC meeting. The discussion led to a second round of rankings and a final evaluation by email. The final proposal of selected ECORD Research Grants is:

ESSAC CONSENSUS 1505-08: Based on the highest quality applications, ESSAC approves 8 awards for ECORD Research Grants in 2015 up to a maximum of € 2,000 each, totalling € 15.790: 5 UK, 1 Portugal, 1 Italy and 1 Norway.

Candidate	Country	Amount requested (€)	Fund
Barnet, James	UK	2000	2000
Alonso Garcia, Montserrat	Portugal	2.920	2000
Zindorf, Mark	UK	2000	2000
Gariboldi, Karen	Italy	3300	2000
Panitz, Sina	UK	1960	1960
Bhatia, Rehemat	UK	2000	2000
Jordan, Nina	UK	1828	1830
Baranwal, Soma	Norway	US\$ 5500	2000
		Total	15790

The email discussion about the grants also brought to light the need to have a more coordinated, regulated procedure and clear criteria for future ECORD grant awards. G. Früh-Green suggested that an official subcommittee could be formed to evaluate the grants and make a recommendation to the ESSAC Delegates. She will follow up with this for the next ESSAC meeting in October.

7.4 Update on status of DLP - scheduling, budget

J. Gutierrez-Pastor updated about the current DLP program.

J. Gutierrez-Pastor showed that there were a total of 40 lectures scheduled:

- C. France Lanord: 7 lectures
- G. Uenzelmann-Neben: 7 lectures
- A. Morris: 7 plus ESSAC meeting
- J. Kalmeyer: 8 lectures
- P. Vannucchi: 11 Lectures

The schedule is updated regularly in the ESSAC website: <http://www.essac.ecord.org/index.php?mod=education&page=dlp>

The DLP program is running successfully and the ESSAC office is still receiving requests from other institutions that are considered based on availability of funds.



The flyer is titled "ECORD invites you to Host a Lecture". It features a list of five potential lecturers on the left, each with a small portrait and their affiliation. On the right, there are four thematic areas: "CLIMATE AND OCEAN CHANGE", "BIOSPHERE FRONTIERS", "EARTH IN MOTION", and "EARTH CONNECTIONS", each with a brief description of the lecture topic. At the bottom, there is contact information for the ESSAC office and the ECORD logo.

ECORD invites you to Host a Lecture

The European Consortium for Ocean Research Drilling (ECORD) is sponsoring an initiative for a lecture series to be given by leading scientists involved with the International Ocean Discovery Program (IODP).

Applications to host a Distinguished Lecturer will be accepted from any college, university or non-profit organisation in all European countries, Israel and Canada.

CLIMATE AND OCEAN CHANGE

Himalaya: from mountains to drilling in the Bengal fan

Reconstructing palaeo-circulation: Reading sediment drifts with the aid of IODP information

BIOSPHERE FRONTIERS

What controls abundance and activity of microbial life in subsurface sediments? New insights from scientific drilling.

EARTH IN MOTION

Understanding megathrust earthquakes through ocean drilling

EARTH CONNECTIONS

What can magnetism tell us about oceanic tectonics? New insights from scientific drilling.

Apply by email to essac.office@erdw.ethz.ch

More information at: <http://www.essac.ecord.org>

Christian France-Lanord
Centre de Recherches Pétrographiques et Géochimiques -CNRS, Nancy, France

Gabriele Uenzelmann-Neben
Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany

Jens Kallmeyer
GFZ German Research Centre for Geosciences, Helmholtz Centre Potsdam, Germany

Paola Vannucchi
Earth Sciences Department, Royal Holloway, University of London, Surrey, UK

Antony Morris
School of Geography, Earth and Environmental Sciences, Plymouth University, UK

ECORD
Science Support 4

7.5 Changes to the ECORD/ESSAC websites

J. Gutierrez-Pastor reported about the latest changes in the ESSAC website.

J. Gutierrez-Pastor reminded the attendances that we have changed the “Apply to sail” module in the ESSAC website. We have simplified the application process:

- Download the application form from the ESSAC Website
- Send the application materials to the ESSAC email address

The ESSAC offices has developed a new document called “ECORD Guidelines for Applying to Sail” to help the applicants to fill out the Expedition application form and to provide the appropriate information in the application materials.

http://www.essac.ecord.org/flyer/Guidelines_for_Applying_to_sail.pdf

A. Voelker suggested adding a detailed description of different specialities (job descriptions) in this document.

> **ESSAC Action Item 1505-11:** The ESSAC Office shall include job descriptions for the IODP Expeditions in the “ECORD Guidelines for Applying to Sail” document that is posted on the ESSAC Website. *Done.*

ESSAC News & Website updates

1. The ESSAC office is sending a new format of the ESSAC NEWS monthly



2. ESSAC Facebook: 325 friends
3. ESSAC distribution list: almost 700 friends

J. Gutierrez-Pastor mentioned that the Facebook and Twitter icons were added to the ESSAC Website to have a direct access to these platforms.

There followed a discussion about the need to update and coordinate the ECORD websites. As examples, the appearance and usability is very heterogeneous and outdated, and the Twitter posts sometimes just “re-tweet” posts that are not necessary. The ESSAC Chair was asked to communicate with ESO about this.

> **ESSAC Action Item 1505-10:** The ESSAC Chair shall communicate to ESO and the ECORD Council the wish to modernise the appearance, functionality and usability of the ECORD websites and to update the content to make them more user friendly, informative and attractive to the younger generations. *Done.*

8. Nominations and Staffing (2) – Breakout reports & discussion

8.1 Nomination & Staffing Subcommittee report, discussion & future actions

G. Früh-Green reported on the Nomination and Staffing subcommittee discussions and gave an overview of future actions. The following actions and consensus were reached:

> **ESSAC Action Item 1505-01:** Prior to sending out ranking packages, the ESSAC Office will consult with the co-chiefs about details of required expertise and any other details of the expedition goals that may not be included in the expedition calls or summaries. *Done / continuous.*

ESSAC CONSENSUS 1505-04: Country balance remains an important criterion in proposing nominations and setting priority lists for IODP expeditions.

G. Früh-Green mentioned that the ESSAC office, sometimes, receives applications after the official deadline. In certain occasions, ESSAC expeditions calls have different application deadlines compared with the U.S. Expedition calls application deadlines. However, it is well announced in the text of the call, in the ESSAC website and informative emails. She asked if we should consider those applications or not, as a general rule.

ESSAC CONSENSUS 1505-05: ESSAC shall not consider applications to participate on IODP expeditions that have been submitted after the ESSAC deadlines have passed.

N. Waldmann requested to standardize the acronyms used for countries in the ESSAC documents and statistics to avoid confusion.

> **ESSAC Action Item 1505-02:** The ESSAC Office shall standardize the acronyms used for countries to avoid confusion.

9. Discussion of ESSAC chair and science coordinator responsibilities

9.1 Proposed changes to ESSAC Terms of Reference

G. Früh-Green led a discussion about the term of the ESSAC Chair and other changes to the ESSAC Terms of Reference (ToR) document.

The ESSAC delegates had a long discussion about the following issues:

- *Term of office for the ESSAC Chair (two or three years). The decision needs to be approved by ESSAC.*

J. Behrmann asked to be excused from the meeting room while discussions about the ESSAC Chair were taking place.

- *Role of the ESSAC Chair and invitation/participation in ECORD Council and VTF meetings, as stated in the current ESSAC ToR*
- *EMA director attendance at ESSAC meetings: importance*
- *Does ESSAC want to continue with biannual meetings?*
- *Acceptance of the proposed ESSAC Chair and Science Coordinator responsibilities (listed in the new version of the ESSAC ToR): comments and suggestions*

As a consequence of the discussion, the following actions and consensus were reached:

> **ESSAC Action Item 1505-12:** In the interest of continuing good communication, the ESSAC Chair is requested to write a letter to EMA and the ECORD Council members to open discussions regarding the term of the ESSAC Chair, participation of EMA in ESSAC meetings, and participation and the role of the ESSAC Chair in VTF and ECORD Council meetings. A draft version shall be circulated by email and approved by the ESSAC delegates and alternates who attended the Uppsala ESSAC meeting. *Done.*

> **ESSAC Action Item 1505-13:** The ESSAC Chair shall circulate a new version of the ESSAC Terms of Reference (ToR) among the ESSAC delegates for final approval. These shall include responsibilities of the ESSAC Chair and ESSAC Science Coordinator. *Done.*

ESSAC CONSENSUS 1505-11: ESSAC agrees to keep the term of 2 years for the ESSAC Chair in the ESSAC ToR, with the possibility to extend it to a third year. The ESSAC Terms of Reference shall be modified accordingly.

After the ESSAC meeting, a version of the TOR document was circulated by email among the delegates to add comments and suggestions. The final ToR shall be sent to the ECORD Council for approval.

As result of the discussion, the final agreements reached between the ESSAC delegates are shown in the new rewritten version of the ESSAC TOR (Annex 7).

10. Workshop and Conference Reports

10.1 Magellan Plus Programme updates

R. Stein reported on the MagellanPlus Program.

MagellanPlus Steering Committee Members:

Lucas Lourens (NL) – Paleoclimate (IODP) chair

Marit-Solveig Seidenkrantz – (DK) Paleoclimate/Paleogeography (IODP)

Ruediger Stein (D) – Paleoceanography/Arctic (IODP)

Johan Lissenberg (UK) – Oceanic Lithosphere (IODP) vice-chair

Ales Spicak (CZ) – Seismology (ICDP)

Werner Piller (A) – Stratigraphy/Carbonates (ICDP)

Anne Le Friant (F) – Geohazards (IODP)

Stefano Bernasconi (CH) – Geochemistry (IODP)

Marco Roveri (It) – Seismic stratigraphy/Sedimentology (IODP)

MagellanPlus – Workshops since the ESSAC/ECORD meeting in Zürich

1. Drilling the Tropical South Atlantic
 - Newcastle (UK) - February 2-4 (2015)
 - Conveners: Thomas Wagner and Tom Dunkley Jones
 - Summary report in ECORD Newsletter #24
2. Investigating Mediterranean-Atlantic Gateway Exchange
 - Rabat (Morocco) - May 5-8 (2015)
 - Convener: Rachel Flecker

MagellanPlus – Upcoming Workshops

1. Mantle, Water and Life
 - Lyon (France) - June 10-12 (2015)
 - Convener: Muriel Andréani
2. Submarine Paleoseismology
 - Zurich (Switzerland) - July 16-18 (2015)
 - Convener: Michael Strasser

MagellanPlus – Call of February 2nd

4 proposals received and discussed at Burkheim Meeting (05.02.15)

1. Submarine Paleoseismology: Using giant piston coring within IODP to fill the gap in long-term records of great earthquakes
 - Magellan funding yes; Watchdog: Anne Le Friant
2. Zero-age drilling of the Arctic Mid-Ocean Ridge system
 - Resubmit for July 01 deadline (include paleo/sed people, give drilling strategy, information from other DSDP/ODP sites available?)
3. Volcanism and tectonics in an island-arc caldera environment: history, causes, feedbacks and impacts

- Reject: Clear statement of objectives; why drilling is required?
 - Recent seismic activities should be discussed
4. Haiti active fault drilling (amphibious drilling)
- Postpone till the end of March; depending on ICDP decision;
 - extend program; details about budget

MagellanPlus – upcoming call

July 1st 2015 - submission: magellan.plus@uu.nl

Call has been published and distributed

Funding of up to 15 000 per workshop (for up to 4 workshops each year, resulting in 1-3 proposals that may be funded following this call)

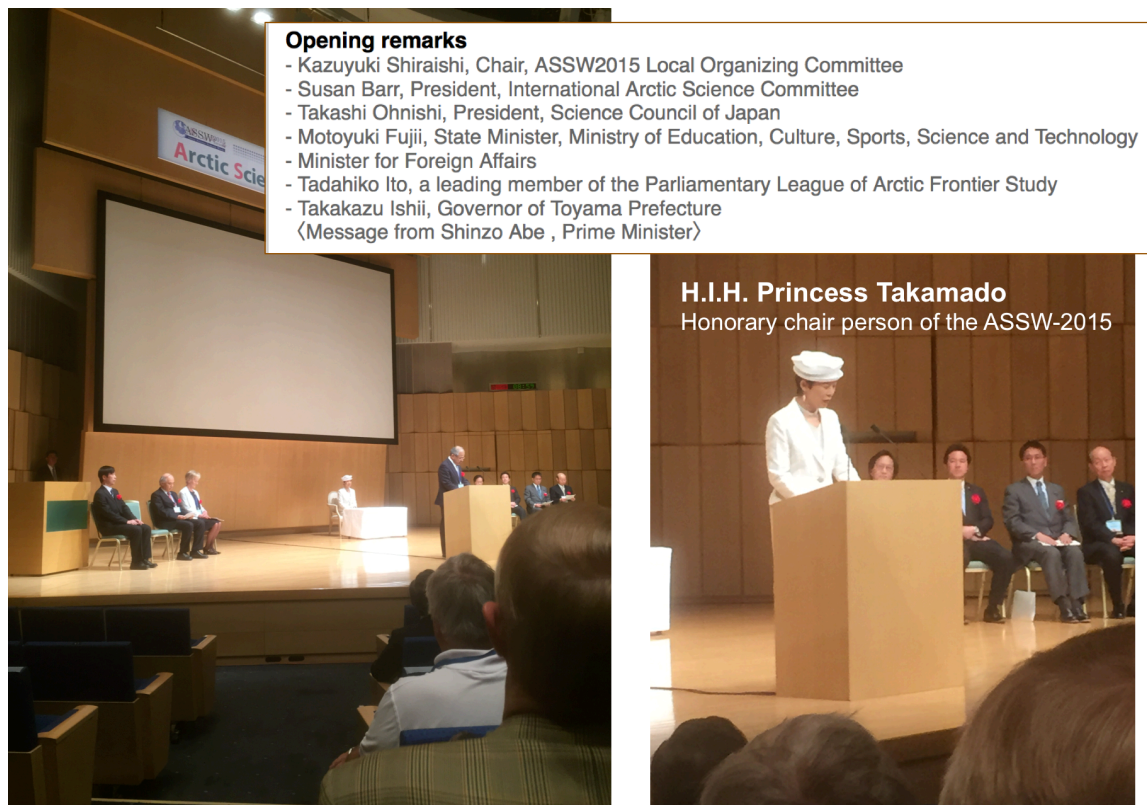
Next annual SSC meeting: TBA

? February 03-05, 2016: ?? Marco (Parma/Italy) or ?? Anne (Paris) ?

R. Stein announced that the MagellanPlus Burkheim Meeting was the last one for Jochen Erbacher. The new Chair of MagellanPlus is Lucas Lourens.

10.2 Third International Conference on the Arctic Research Planning (ICARP III), Toyama, Japan, April 23-30, 2015

R. Stein reported on the Third International Conference on the Arctic Research Planning.



All the information regarding to the conference, such as session titles, program, conference goals...etc, can be found in [Annex 8](#).

10.3 Past and future workshops and conferences

10.3.1 Planned outreach activities future conferences

J. Gutierrez-Pastor briefly reported about the past and future workshops, conferences and outreach activities. More details are showed in these minutes, including some information provided by P. Maruejol.

J. Gutierrez-Pastor mentioned that the calendar of past and future workshops is available in the Newsletter 24 and ESSAC webpage calendar.

Calendar of Workshops and Conferences

<p>2015</p> <p>2 - 4 February MagellanPlus Workshop South Atlantic Drilling Newcastle, UK www.ecord.org/magellanplus.html</p> <p>12 - 17 April EGU General Assembly 2015 Vienna, Austria egu2015.eu</p> <p>3 - 7 May AGU-GAC-MAC-CGU Montréal, QC, Canada ja.agu.org/2015</p> <p>5 - 8 May MagellanPlus Workshop IMAGE Project Rabat, Morocco www.ecord.org/magellanplus.html</p>	<p>24 - 28 May JPGU 2015 Chiba, Japan www.jpгу.org/meeting_e</p> <p>31 May - 3 June AAPG 2015 Denver, CO, USA ace.aapg.org/2015</p> <p>10 - 12 June MagellanPlus Workshop Mantle, Water and Life Lyon, France www.ecord.org/magellanplus.html</p> <p>13 - 16 May Indian Ocean Crust & Mantle Drilling Workshop Woods Hole, MA, USA http://web.whoi.edu/indian-ocean-drilling/us-china-international-ocean-discovery-program-workshop/</p>	<p>16 - 18 July MagellanPlus Workshop, Submarine Paleoseismicity Zurich, Switzerland www.ecord.org/magellanplus.html</p> <p>19 - 24 July Polar Marine Diatom Workshop Salamanca, Spain http://polarmarinediatomworkshop.org/2015.Salamanca.html</p> <p>27 July - 2 August XIX INQUA 2015 Nagoya, Japan inqua2015.jp</p> <p>2 - 7 August AOGS 2015 Singapore http://www.asiaoceania.org</p>	<p>16 - 21 August Goldschmidt 2015 Prague, Czech Republic goldschmidt.info/2015/</p> <p>29 Sept - 2 Oct 3P Arctic Stavanger, Norway www.3parctic.com</p> <p>14 - 18 December AGU Fall Meeting San Francisco, CA, USA meetings.agu.org</p> <p>-----</p> <p>2016</p> <p>26 July - 1 June Goldschmidt 2016 Yokohama, Japan goldschmidt.info/2016</p> <p>27 Aug - 4 Sept 35th IGC Cape Town, South Africa www.35igc.org/</p>
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Other upcoming IODP Workshops

- The 8th International Conference on Asian Marine Geology will be held from 5th to 10th October 2015 at Jeju Island in Korea. Abstract Submission Deadline: 30 June, 2015
http://www.ecord.org/pdf/2nd_circular_ICAMG8.pdf

P. Maruejol provided the ESSAC office some information related to the ECORD/IODP-ICDP booth at American Geophysical Union Fall meeting (AGU), 15 to 19 December 2014, San Francisco, USA:

- 1st participation co-funded by ECORD and ICDP
- 3,5-day long
- Located in NSF street, nearby COL/USIO and JAMSTEC/KCC booths
- Steady traffic (24,000 attendees at AGU 2014)
- New posters to highlight scientific drilling
- 250-300 attendees, open bar + food
- 2 speakers, 24 posters, organised by COL and co-funded by participants (NSF, ICDP, JAMSTEC & ECORD).

In addition, P. Maruejol reported to the ESSAC office about the ECORD/IODP - ICDP at the European Geosciences Union meeting (EGU), 12 to 17 April 2015, Vienna, Austria.

- 11,837 participants from 108 countries, 23% students (27% in 2014)
- Scientific Drilling IODP-ICDP booth (*co-funded by ECORD and ICDP*) 5-day long with core scanner and Corelyzer demonstrations held by ICDP
- IODP - ICDP Townhall Meeting (*200-250 participants*)
- IODP-ICDP session

Future Conferences

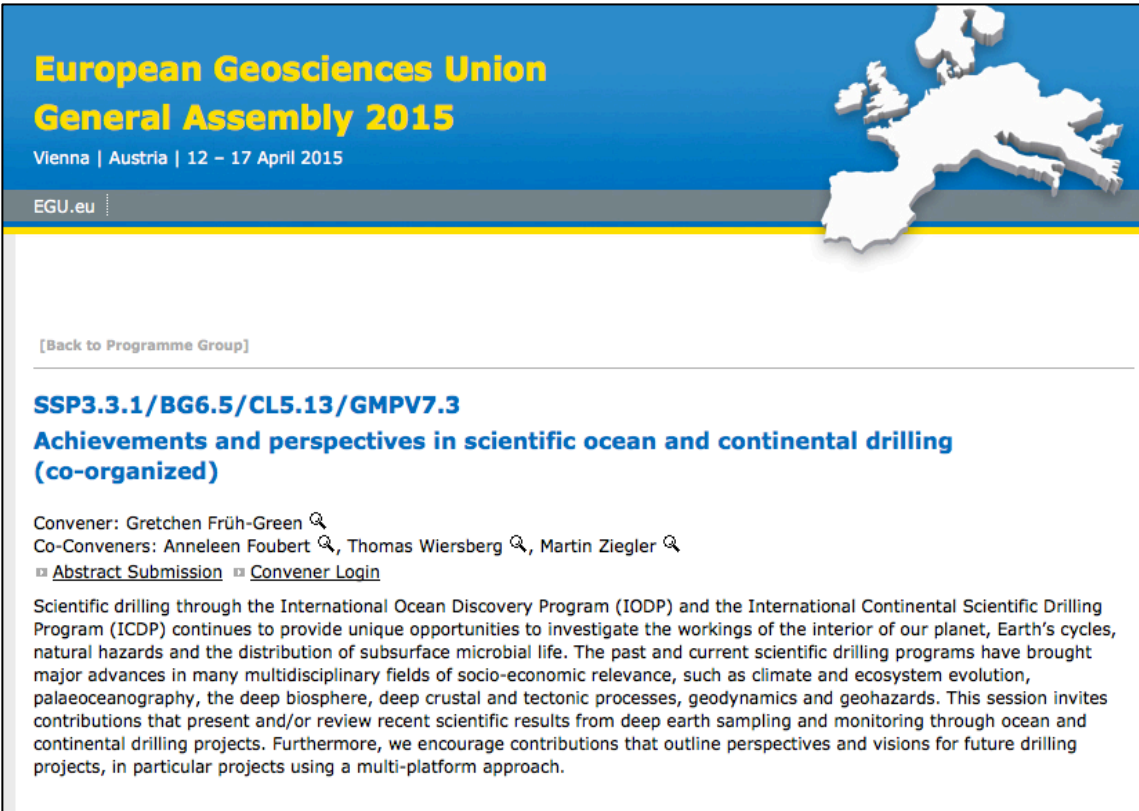
- AGU 2015, 14-18 Dec, IODP-ICDP booth #313 is reserved next to CDEX-JAMSTEC
- EGU 2016, 17-22 April, IODP-ICDP booth and townhall
- IGC 2016, 27 Sept - 4 Oct, Cape Town - IODP-ICDP booth

10.4 Joint IODP/ICDP session at the EGU 2015 in Vienna

9.3.1 Plans for EGU 2016?

G. Früh-Green reported about the past Joint IODP/ICDP session at the EGU 2015 in Vienna and discussed the plans for EGU 2016.

The General Assembly 2015 was on Wednesday, 16 April 2015, 13:30 - 17:30







European Geosciences Union
General Assembly 2015
Vienna | Austria | 12 - 17 April 2015

EGU.eu

[Back to Programme Group]

SSP3.3.1/BG6.5/CL5.13/GMPV7.3
Achievements and perspectives in scientific ocean and continental drilling (co-organized)

Convener: Gretchen Früh-Green 
Co-Conveners: Anneleen Foubert , Thomas Wiersberg , Martin Ziegler 

[Abstract Submission](#) [Convener Login](#)

Scientific drilling through the International Ocean Discovery Program (IODP) and the International Continental Scientific Drilling Program (ICDP) continues to provide unique opportunities to investigate the workings of the interior of our planet, Earth's cycles, natural hazards and the distribution of subsurface microbial life. The past and current scientific drilling programs have brought major advances in many multidisciplinary fields of socio-economic relevance, such as climate and ecosystem evolution, palaeoceanography, the deep biosphere, deep crustal and tectonic processes, geodynamics and geohazards. This session invites contributions that present and/or review recent scientific results from deep earth sampling and monitoring through ocean and continental drilling projects. Furthermore, we encourage contributions that outline perspectives and visions for future drilling projects, in particular projects using a multi-platform approach.

The ESSAC office contacted the ECORD Expedition participants and Co-Chiefs to invite them to submit an abstract to the session.

- 41 ABSTRACTS
- 27 Oral requests
- 14 Poster requests

G. Früh-Green suggested involving interested scientists in organising the General Assembly for EGU 2016. Everybody agreed.

> **ESSAC Action Item 1505-14:** ESSAC shall identify potential ECORD scientists willing to lead and organise the IODP-ICDP Session “Achievements and perspectives in scientific ocean and continental drilling” of the Ocean and Continental Drilling subgroup of Stratigraphy, Sedimentology & Paleontology (SSP) at the annual EGU General Assembly (Vienna).

11. Next meetings

11.1 ESSAC-ECORD Joint Meeting #3, 26-27 October 2015, Naples, Italy (Host: Marco Sacchi, Fieldtrip: Monday, 26 Oct)

G. Früh-Green informed about the upcoming ESSAC-ECORD Joint Meeting in Naples, Italy:

- Oct. 26 : Field trip
- Oct. 27 : ESSAC
- Oct. 28 & 29 : Council-ESSAC

G. Früh-Green raised the question: Does ESSAC need/want a full-day meeting?

A new organization of the meeting was suggested:

- Oct. 26 : ESSAC, half day
- Oct. 27 : Field trip
- Oct. 28 & 29 : Council-ESSAC

> **ESSAC Action Item 1505-15:** The ESSAC Office shall contact Marco Sacchi as host of the next joint ESSAC/ECORD meeting (Naples) in October to request the possibility to change the order of dates for the ESSAC meeting and Fieldtrip (ESSAC meeting on the first day, Monday 26 October from 13:00 to 17:30, and the field trip on Tuesday 27 October).

12. Any other business

G. Früh-Green asked to the attendants if there was any other business.

G. Früh-Green thanked to the ESSAC delegates & alternates for the support and, especially, *to I. Snowball & J. Henderiks*, for their warm hospitality, tremendous efforts & wonderful organisation of this meeting.

ESSAC CONSENSUS 1505-12: ESSAC warmly thanks Ian Snowball and Jorijntje Henderiks for their hospitality and outstanding organisation of the 4th ESSAC meeting in Uppsala.

Annex 1

The IODP Proposal Status, as of mid-April 2015

All Proposals at the JRFB

Proposal Number	Category	Short Title	Lead Proponent	Ocean	Stage
505	Full5	Mariana Convergent Margin	Fryer	Pac	JRFB
522	Full5	Superfast Spreading Crust	Teagle	Pac	JRFB
549	Full6	Northern Arabian Sea Monsoon	Lückge	Ind	JRFB
567	Full4	South Pacific Paleogene	Thomas	Pac	JRFB
595	Full4	Indus Fan and Murray Ridge	Clift	Ind	JRFB
618	Full3	East Asia Margin	Clift	Pac	JRFB
633	Full2	Costa Rica Mud Mounds	Brückmann	Pac	JRFB
693	APL	S. Chamorro Seamount CORK	Wheat	Pac	JRFB
702	Full2	Southern African Climates	Zahn	Ind	Exp 361
724	Full	Gulf of Aden Faunal Evolution	de Menocal	Ind	JRFB
732	Full2	Antarctic Peninsula Sediment Drifts	Channell	Sou	JRFB
751	Full2	West Antarctic Ice Sheet Climate	McKay	Sou	JRFB
760	Full2	SW Australia Margin Cretaceous Climate	Hobbs	Ind	JRFB
769	APL2	Costa Rica Crustal Architecture	Tominaga	Pac	JRFB
777	APL3	Okinawa Trough Quaternary Paleoceanography	Lee	Pac	JRFB
778	Full2	Tanzania Margin Paleoclimate Transect	Wade	Ind	JRFB
781A	Full	Hikurangi: observatory	Saffer	Pac	JRFB
791	APL2	Continental Margin Methane Cycling	Malinverno	Pac	JRFB
799	Full2	Western Pacific Warm Pool	Rosenthal	Pac	Exp 363
800	MDP	Indian ridge Moho	Dick	Ind	Exp 360
818	Full	Brothers Arc Flux	de Ronde	Pac	JRFB
807	Full	Indonesian Throughflow	Gallagher	Ind	Exp 356
820	Full	Maldives monsoon	Betzler	Ind	Exp 359
830	APL2	Scott Plateau microbial interaction	D'Hondt	Ind	JRFB
837	Full	Sumatra Seismogenic Zone	McNeill	Ind	Exp 362
839	Full	Amundsen Sea Ice Sheet history	Gohl	Sou	JRFB
845	APL	Agulhas LGM Density	Adkins	Ind	Exp 361
849	APL	Indian Peninsula Paleoclimate	Giosan	Ind	JRFB

Annex 2

MSP Proposals at the SEP (as of March 2015)

Proposal	Comments	Cost estimate
581-Full2 Corlagal Banks Droxler	May 2014: Droxler confirmed objectives can be met with existing seafloor drill penetration	\$2.0M - \$2.7M using seafloor drill and ship as IKC \$5.5M - \$8.7M using geotechnical vessel
673-Full2 Add 6 New England Hydrogeology Person	In holding bin, awaiting proponent response to reduce number of sites and use wireline logging instead of LWD. (Proponents are interested in doing this)	\$12.1M - \$20.7M (assuming 3 holes with wireline logging)
716-Full2 Hawaii Drowned Reefs Webster	Awaiting development of MeBo200. 2020 for IODP?	\$3.4M - \$4.6M using seafloor drill and ship as IKC \$8.0M - \$13.0M using geotechnical vessel

680-Full	Bering Strait Climate Change	Revise full proposal (Dec 2012)
730-Full	Sabine Bank	Revise before sending to external review (Jun 2014)
750-Pre	Beringia Sea Level History	Develop to full proposal (Dec 2012), possibly link with 680
756-Pre	Arctic Ocean Exit Gateway	Develop to full proposal (Dec 2011)
761-Pre	South Atlantic Bight Hydrogeology	Develop to full proposal (Dec 2012)
796-ADP	Ligurian Landslide	Revise full proposal (May 2012), submitted to ICDP (Jan 2015)
797-Pre	Alaska Beaufort Margin	Develop MDP with 806 or revise full proposal (May 2012)
806-Pre	Beaufort Gas Hydrate	Develop MDP with 797 or revise full proposal (May 2012)
812-Pre	Glacial History Southeast Ross Sea	Develop to full proposal (Dec 2012)
852-Pre	N. Sea GlaciStore	Develop to full proposal (Jun 2014) – expected Apr 2015
857-MDP2*	DREAM: Mediterranean Salt Giant	Submit daughter proposal (Jan 2015)
857A-Pre*	DREAM: Deep-Surface Connection	Develop full proposal (Jan 2015), and submit to CIB
863-MDP	ISOLAT Southern Ocean Paleoclimate	Revise umbrella proposal then submit pre-proposals (Jun 2014)
866-Pre	Japan Trench Paleoseismology	Develop to full proposal (Jan 2015)
879-Full	Corinth Active Rift Development	Sent for external review (Jan 2015)

Red: potentially upcoming? *Chikyu riser drilling with ECORD co-funding

Recent rejections / deactivations

615-Full2	NW Pacific Coral Reefs (deactivated Dec 2012)
792-Pre	Shiva Impact Structure (deactivated Dec 2012)
817-Pre	Atolls in the Maldives (deactivated Dec 2012)
860-CPP	Coulman High Paleoclimate (rejected Jun 2014)
861-Pre	Antarctic Peninsula Thermochronometry (deactivated Jun 2014)
867-Pre	Red Sea Plio-Pleistocene (deactivated Jan 2015)

Upcoming' MSP Proposals at the SEP (as of March 2015)

Proposal	Comments	Cost estimate
730-Full Sabine Bank	MeBo200 proposal – must wait. Potentially >60 days duration.	\$3.2M - \$4.6M using seafloor drill and ship as IKC.
796-ADP Ligurian Landslide	ESO question feasibility of coring from a moored pontoon at sea (heave issues).	\$2M - \$2.5M for offshore component (will be higher if using seabed drill or geotechnical vessel).
852-Pre N. Sea GlaciStore	ESO attended proponent workshop, Feb 2015. Feasible but not cheap, could be co-funded and/or with equipment contributions. Safety issues, may need BOP.	\$13M-\$20M
863-MDP ISOLAT Southern Ocean Paleoclimate	Need daughter proposals to evaluate.	Potentially cheap – piston coring from IKC research vessel.
866-Pre Japan Trench Paleoseismology	Giant piston cores. Possibility of vessel IKC from Japan.	\$2M - \$2.5M with IKC.
879-Full Corinth Active Rift Development	ESO attended proponent workshop, Feb 2014. Long expedition, may be issues with derrick height under Rio–Antirrio Bridge.	\$14 - \$21M

Annex 3a

CURRENT STAFFING OF ECORD SCIENTISTS ON JR EXPEDITIONS 2014/2015

Expedition 349: South China Sea (CPP) (26 Jan – 30 March, 2014)

Co-chief Scientists: [Chun-Feng Li](#) & [Jian Lin](#)

Senior Scientists

BRIAIS, Anne (France) Physical Properties

Post-doctoral Researchers and Early Career Scientists

HERNÁNDEZ ALMEIDA, Iván (Switzerland) Paleontologist (radiolarians) **Special Call**

Masters and PhD Students

BAO, Rui (Switzerland, PhD) Organic Geochemist

Expedition 350: Izu Bonin Mariana: Rear Arc (30 March-30 May, 2014)

Co-chief Scientists: [Yoshihiko Tamura](#) (Japan) & [Cathy Busby](#) (USA)

Senior Scientists

VAUTRAVERS, Maryline (UK) Micropaleontology - Planktic Foraminifers **Special Call**

Post-doctoral Researchers and Early Career Scientists

BERGER, Julien (France) Igneous Rocks/Volcaniclastics
JUTZELER, Martin (UK) Sediments/Volcaniclastics
JOHN, Eleanor (UK) Micropaleontology - Planktic Foraminifers **Special Call**
MAHONEY, Sue (UK) Physical Properties
HAMELIN, Cedric (Norway) Igneous Rocks/Volcaniclastics
BARKER, Abigail (Sweden) Igneous Rocks/Volcaniclastics
BORDIGA, Manuela (Sweden) Micropaleontology – Nannofossils **Special Call**

Masters and PhD Students

JONAS, Ann-Sophie (Germany, MSc) Organic Geochemistry
SCHINDLBECK, Julie (Germany, PhD) Sediments/Volcaniclastics

Teachers at Sea

ALLEN, Lesley (UK)

Expedition 351: Izu Bonin Mariana: Arc Origins (30 May-30 July, 2014)

Co-chief Scientists: [Richard Arculus](#) (Australia) & [Osamu Ishizuka](#) (Japan)

Senior Scientists

MORRIS, Tony (UK) Paleomagnetist
SAVOV, Ivan (UK) Sedimentologist

Post-doctoral Researchers and Early Career Scientists

BRANDL, Philipp (Germany) Igneous Petrologist
KENDER, Sev (UK) Foraminifer Micropaleontologist
VAN DER LAND, Cees (UK) Inorganic Geochemist

MAFFIONE, Marco (Netherlands) Paleomagnetist
SENA, Clara (Portugal) Inorganic Geochemist, **Special Call**

Masters and PhD Students

MCCARTHY, Anders (Switzerland, PhD) Igneous Petrologist

Teachers at Sea

FINGERLE, Markus (Germany) **WITHDRAWN**

Expedition 352: Izu Bonin Mariana: Fore Arc (30 July-30 September, 2014)

Co-chief Scientists: [Julian Pearce](#) (UK) & [Mark Reagan](#) (USA)

Senior Scientists

CARVALLO, Claire (France) Paleomagnetist
GODARD, Marguerite (France) Inorganic Geochemist
ALMEEV, Renat (Germany) Physical Properties Specialist
KUTTEROLF, Steffen (Germany) Sedimentologist
PRYTULAK, Julie (UK) Petrologist
ROBERTSON, Alastair (UK) Sedimentologist
KURZ, Walter (Austria) Structural Geologist, **Special Call**

Post-doctoral Researchers and Early Career Scientists

KIRCHENBAUR, Maria (Germany, Post-doc) Inorganic Geochemist

Expedition 353: Indian Monsoon Rainfall (29 Nov 2014-29 January 2015)

Co-chief Scientists: [Steven Clemens](#) & [Wolfgang Kuhnt](#) (Germany)

Senior Scientists

MARTINEZ, Philippe (France) Sedimentologist
ANAND, Pallavi (UK) Physical Properties Specialist
ROMERO, Oscar (Germany) Diatom Micropaleontologist

Post-doctoral Researchers and Early Career Scientists

BOLTON, Clara (France) Nannofossil Micropaleontologist
HATHORNE, Ed (Germany) Inorganic Geochemist
LITTLER, Kate (UK) Sedimentologist
BARTOL, Milos (Sweden) Nannofossil Micropaleontologist

RODRIGUEZ, Mathieu (France) Physical Properties **WITHDRAWN**

Masters and PhD Students

TAYLOR, Samuel (France, PhD) Paleomagnetist
GARIBOLDI, Karen (Italy, PhD) Diatom Micropaleontologist **Special Call**

Teachers at Sea

FINGERLE, Markus (Germany)

Expedition 354: Bengal Fan (29 January-31 March 2015)

Co-chief Scientists: [Christian France-Lanord](#) (France) & [Volkhard Spiess](#) (Germany)

Senior Scientists

GALY, Albert (France)	Inorganic Geochemist	
HUYGHE, Pascale (France)	Sedimentologist	
MEYNADIER, Laura (France)	Paleomagnetist,	Special Call
WEBER, Michael (Germany)	Physical Properties Specialist	
NAJMAN, Yani (UK)	Sedimentologist	
CASTELLTORT, Sebastian (Switzerland)	Sedimentologist	WITHDRAWN

Post-doctoral Researchers and Early Career Scientists

ADHIKARI, Rishi Ram (Germany, Post-doc)	Organic Geochemist	
LANTZSCH, Hendrik (Germany, Res. assist.)	Sedimentologist	(replacing Castelltort)
ANTHONISSEN, Erik (Norway, Statoil)	Foraminifer Micropaleontologist	(declined)

Masters and PhD Students

FOX, Lyndsey (UK, PhD)	Foraminifer Micropaleontologist	
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Teachers at Sea

HANANO, Diane (Canada)

Expedition 355: Arabian Sea Monsoon (CPP) (31 March-31 May 2015)

Co-chief Scientists: [Dhananjai Pandey](#) & [Peter Clift](#)

Staffing Complete – 355 invitations sent and all have accepted:

Senior Scientists

BENDLE, James (UK)	Organic Geochemistry	
ANDO, Sergio (Italy)	Sedimentologist	

Post-doctoral Researchers and Early Career Scientists

STEINKE, Stephan (Germany, Post-doc)	Planktonic Foraminifers Micropaleontologist	
HAHN, Annette (Germany, Post-doc)	Physical Properties Specialist	

Masters and PhD Students

YU, Zhaojie (France, PhD)	Inorganic Geochemistry	
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Expedition 356: Indonesian Throughflow (31 July-30 September 2015)

Co-chief Scientists: [Stephen Gallagher](#) & [Craig Fulthorpe](#)

Staffing Complete – 356 invitations sent and all have accepted:

Senior Scientists

HENDERIKS, Jorijntje (Sweden)	Nannofossil Micropaleontologist	accepted
RENEMA, Willem (Netherlands)	Stratigraphic Correlator	accepted
REUNING, Lars (Germany)	Sedimentologist	accepted
LANGER, Martin (Germany)	Benthic Foram Micropaleontologist	(withdrawn)

Post-doctoral Researchers and Early Career Scientists

GROENEVELD, Jeroen (Germany, Post-doc)	Planktonic Foram Micropaleontologist	accepted
PETRICK, Benjamin (UK, Post-doc)	Sedimentologist	accepted
HIMMLER, Tobias (Germany, Post-doc)	Sedimentologist	accepted
DE VLEESCHOUWER, David (Germ, Post-doc)	Phys. Props/Downhole Meas.	accepted
BARANWALI, Soma (Norway, Post-doc)	Planktonic Foram Micropaleontologist	accepted

PhD Students:

AUER, Gerald (Austria, PhD)	Sedimentologist	accepted
ANGUE MINTO'O, Charlie (France, Post-doc)	Benthic Foram Micropaleontologist	<i>declined</i>

**MSP Expedition 357: Atlantis Massif Serpentinization and Life
October - December 2015**

Co-chief Scientists: [Gretchen Früh-Green](#) (Switzerland) and [Beth Orcutt](#)

Staffing in Progress

Senior Scientists:

QUEMENEUR, Marianne (France)	Microbiology	accepted
MENEZ, Bénédicte (France)	Microbiology	accepted
WEIS, Dominique (Canada)	Geochemistry	accepted
CANNAT, Mathilde (France)	Igneous Petrology	accepted
BOSCHI, Chiara (Italy)	Metamorphic Petrology	accepted
BEHRMANN, Jan-Hinrich (Germany)	Structural Geology	accepted
ESCARTIN, Javier (France)	Structural Geology/Physical Properties	invited

Post-Docs & Early Career Scientists:

ROUMEJON, Stephane (Switzerland)	Metamorphic Petrology	accepted
SCHWARZENBACH, Esther (Germany)	Metamorphic Petrology	accepted

PhD Students:

ZHAO, Rui (Norway)	Microbiology	accepted
HESSE, Kirsten (Germany)	Igneous Petrology	accepted
DUNKEL, Kristina (Norway)	Physical Properties	accepted

In-Kind Contributions berths:

McCAIG, Andrew (UK) (Senior)	Structural Geology	accepted
HARRIS, Michelle (UK) (Early-Career)	Metamorphic Petrology	accepted
BAYAKCI, Gaye (UK) (Early-Career)	Physical Properties	accepted

**Expedition 359: Maldives Monsoon
30 September - 30 November 2015**

Co-chief Scientists: [Christian Betzler](#) (Germany) & [Gregor Eberli](#)

Senior Scientists

REIJIMER, John (The Netherlands)	Sedimentologist	accepted
KROON, Dick (UK)	Foraminifer Micropaleontologist	accepted
LÜDMANN, Thomas (Germany)	Petrophysics - Downhole Measurements	accepted

LANCI, Luca (Italy)	Paleomagnetist, Special Call	accepted
YOUNG, Jeremy (UK)	Nannofossil Micropaleontologist, Sp. Call	accepted
CEDRIC John (UK)	Stratigraphic Correlator	declined
WADE, Bridget (UK)	Foraminifer Micropaleontologist	withdrawn

Post-doctoral Researchers and Early Career Scientists

HAFFEN, Sebastian (France)	Petrophysics - Physical Properties	accepted
BIALIK, Or (Israel)	Sedimentologist	accepted
ALONSO-GARCIA, Montserrat (Portugal)	Planktonic Foraminifer Micropaleontologist	accepted

Masters and PhD Students

REOLID PEREZ, Jesus (Germany)	Sedimentologist	accepted
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Expedition 360: SW Indian Ridge Lower Crust and Moho

30 November 2015 - 30 January 2016

Co-chief Scientists: [Henry Dick](#) & [Christopher MacLeod](#) (UK)

Senior Scientists

KOEPKE, Jürgen (Germany)	Metamorphic Petrologist	accepted
TRIBUZIO, Riccardo (Italy)	Metamorphic Petrologist	accepted
ILDEFONSE, Benoit (France)	Structural Geologist	accepted
MORRIS, Anthony (UK)	Paleomagnetist	accepted

Post-doctoral Researchers and Early Career Scientists

FRANCE, Lyderic (France)	Igneous Petrologist	accepted
PLUMPER, Oliver (The Netherlands)	Structural Geologist	accepted

Masters and PhD Students

CIAZELA, Jakub (Poland)	Geochemist, Inorganic	accepted
FERRANDO, Carlotta (France)	Structural Geologist	accepted

**Expedition 361: Southern African Climates
(Agulhas Current Density Profile APL)**

30 January - 31 March 2016

Co-chief Scientists: [Ian Hall](#) (UK) and [Sidney Hemming](#)

Senior Scientists:

BARKER, Stephen (UK)	Stratigraphic Correlator	accepted
GRUETZNER, Jens (Germany)	Physical Properties	accepted

Post-Docs & Early Career Scientists:

CALEY, Thibaut (France)	Sedimentologist	accepted
CRESPIN, Julien (France)	Sedimentologist	accepted
KOUTSODENDRIS, Andreas (Germany)	Sedimentologist	accepted
JUST, Janna (Germany)	Paleomagnetist	accepted
SIMON, Margit (UK)	Benthic Foraminifer	accepted

PhD Students:

VAN DER LUBBE, Jeroen (Netherlands)	Sedimentologist	accepted
TANGUNAN, Deborah (Germany)	Nannofossil Micropaleontologist Sp. Call	accepted

Expedition 362: Sumatra Seismogenic Zone
31 July - 30 September 2016
Co-chief Scientists: [Lisa McNeill](#) (UK) & [Brandon Dugan](#)

Senior Scientists:

PICKERING, Kevin	Core description/Sedimentologist	accepted
MOREAU, Julien	Core description/Sedimentologist	
KUTTEROLF, Steffen	Core description/Structural Geologist	accepted
BOURLANGE, Sylvain	Physical Properties	accepted
HENSTOCK, Tim	Core-Log-Seismic Integr./Geophysicist	accepted
BACKMAN, Jan	Micropal. Nannofossil	accepted

Post-Docs & Early Career Scientists:

PhD Students:

26 June 2015

Annex 3b

Expedition Quotas as of 10 May 2015

Contributions FY 2014			Quotas / Actual stand FY 2014				
Designated ECORD Berths for expedition					34		
Member	Financial Contribution (\$US)	%	Total Berths invited	Total Berths sp. calls	Entitled berths, excl. Sp. Calls & Cc	Diff. entitled vs invited (Quota)	Total Partic., incl. co-chiefs
France	5,017,000	26.86	7	0	9.13	-2.13	7
Germany	5,600,000	29.99	8	0	10.19	-2.19	9
UK	4,080,000	21.85	10	2	7.43	2.57	13
Sum	14,697,000	78.69	25	2	26.76	-1.76	29
Austria	100,000	0.54	0	1	0.18	-0.18	1
Belgium	31,000	0.17	0	0	0.06	-0.06	0
Canada	150,000	0.80	0	0	0.27	-0.27	0
Denmark	170,000	0.91	0	0	0.31	-0.31	0
Finland	80,000	0.43	0	0	0.15	-0.15	0
Iceland*	30,000	0.16	0	0	0.05	-0.05	0
Ireland	140,000	0.75	0	0	0.25	-0.25	0
Israel	30,000	0.16	0	0	0.05	-0.05	0
Italy	400,000	2.14	0	1	0.73	-0.73	1
Netherlands	500,000	2.68	1	0	0.91	0.09	1
Norway	1,100,000	5.89	1	0	2.00	-1.00	1
Portugal	90,000	0.48	0	1	0.16	-0.16	1
Poland	30,000	0.16	0	0	0.05	-0.05	0
Sweden	528,000	2.83	2	1	0.96	1.04	3
Switzerland	600,000	3.21	2	1	1.09	0.91	3
Sum	3,979,000	21.31	6	5	7.24	-1.24	11
TOTAL	18,676,000	100	31	7	34.00	-3.00	40

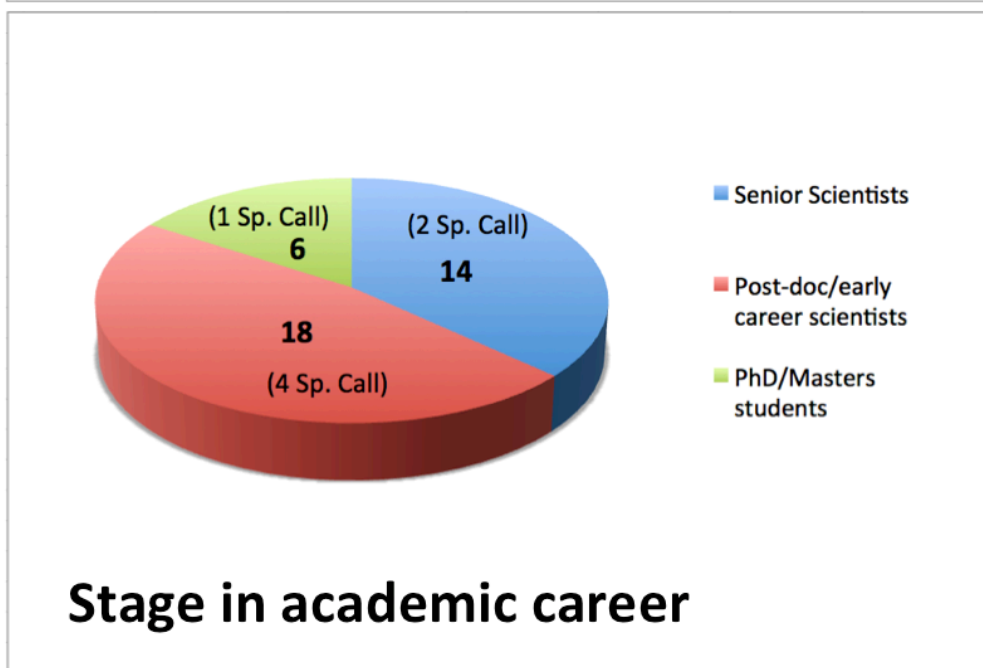
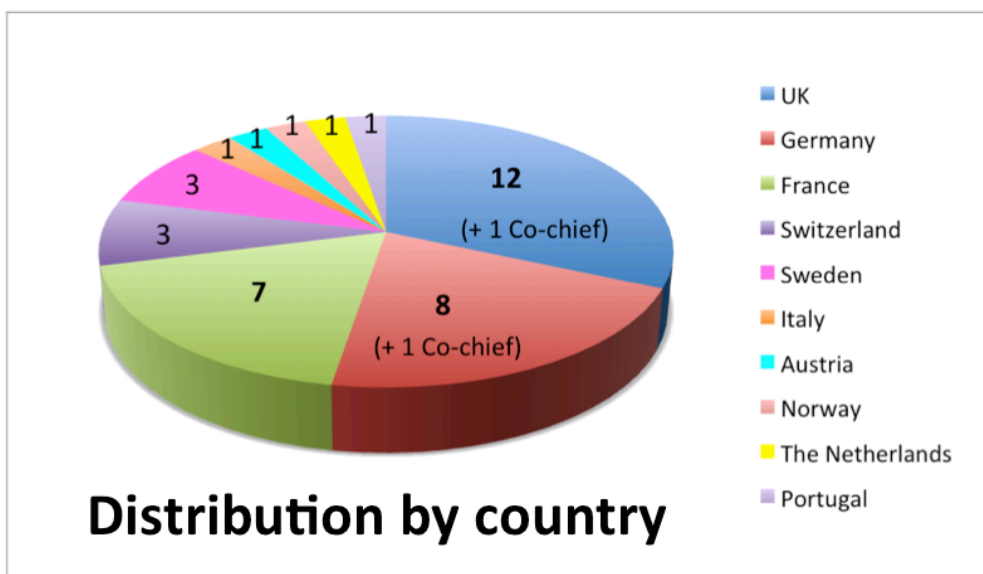
Projected Quotas for staffed expeditions 2014 -2016

Member	Financial Contribution (%)	Total Contribution (US\$)			Projected Quotas 2014 & 2015 (Exps. 349 - 360)					Projected Quotas 2014 - 2016 (Exps. 349 - 361)				
		FY 2014 (\$US)	FY 2015 (\$US)	Total (US\$)	Total Berths invited	Total Berths special calls/IKC	berths entitled-excl. Sp. calls & Cc	Diff.	Total Sailed, incl. co-chiefs	Total Berths invited	Total Berths special calls/IKC	berths entitled - excl. Sp. calls & Cc	Diff.	Total Sailed, incl. co-chiefs
France	27.30%	5'212'080	5'200'000	10'412'080	18	1	21.56	-3.56	20	20	1	23.75	-3.75	22
Germany	29.36%	5'600'000	5'600'000	11'200'000	23	0	23.20	-0.20	26	26	1	25.54	0.46	30
UK	22.54%	4'296'400	4'300'000	8'596'400	16	6	17.80	-1.80	24	18	6	19.61	-1.61	28
Sum	79.19%	15'108'480	15'100'000	30'208'480	57	7	62.56	-5.56	66	64	8	68.90	-4.90	80
Austria	0.52%	100'000	100'000	200'000	1	1	0.41	0.59	2	1	1	0.46	0.54	2
Belgium	0.16%	30'000	30'000	60'000	0	0	0.12	-0.12	0	0	0	0.14	-0.14	0
Canada	0.79%	150'000	150'000	300'000	1	0	0.62	0.38	1	1	0	0.68	0.32	1
Denmark	0.93%	184'000	170'000	354'000	0	0	0.73	-0.73	0	0	0	0.81	-0.81	0
Finland	0.42%	80'000	80'000	160'000	0	0	0.33	-0.33	0	0	0	0.36	-0.36	0
Iceland*	0.08%	30'000		30'000	0	0	0.06	-0.06	0	0	0	0.07	-0.07	0
Ireland	0.73%	137'000	140'000	277'000	0	0	0.57	-0.57	0	0	0	0.63	-0.63	0
Israel	0.16%	30'000	30'000	60'000	1	0	0.12	0.88	1	1	0	0.14	0.86	1
Italy	2.10%	400'000	400'000	800'000	3	2	1.66	1.34	5	3	2	1.82	1.18	5
Netherlands	2.62%	500'000	500'000	1'000'000	4	0	2.07	1.93	4	5	0	2.28	2.72	5
Norway	5.77%	1'100'000	1'100'000	2'200'000	4	0	4.56	-0.56	4	4	0	5.02	-1.02	4
Poland	0.16%	30'000	30'000	60'000	1	0	0.12	0.88	1	1	0	0.14	0.86	1
Portugal	0.47%	90'000	90'000	180'000	1	1	0.37	0.63	2	1	1	0.41	0.59	2
Sweden	2.77%	528'000	528'000	1'056'000	3	1	2.19	0.81	4	3	1	2.41	0.59	4
Switzerland	3.15%	600'000	600'000	1'200'000	3	1	2.49	0.51	5	3	1	2.74	0.26	5
Sum	20.81%	3'989'000	3'948'000	7'937'000	22	6	16.44	5.56	28	23	6	18.10	4.90	30
TOTAL ECORD		19'097'480	19'048'000	38'145'480	79	13	79.00	0.00	94	87	14	87.00	0.00	103

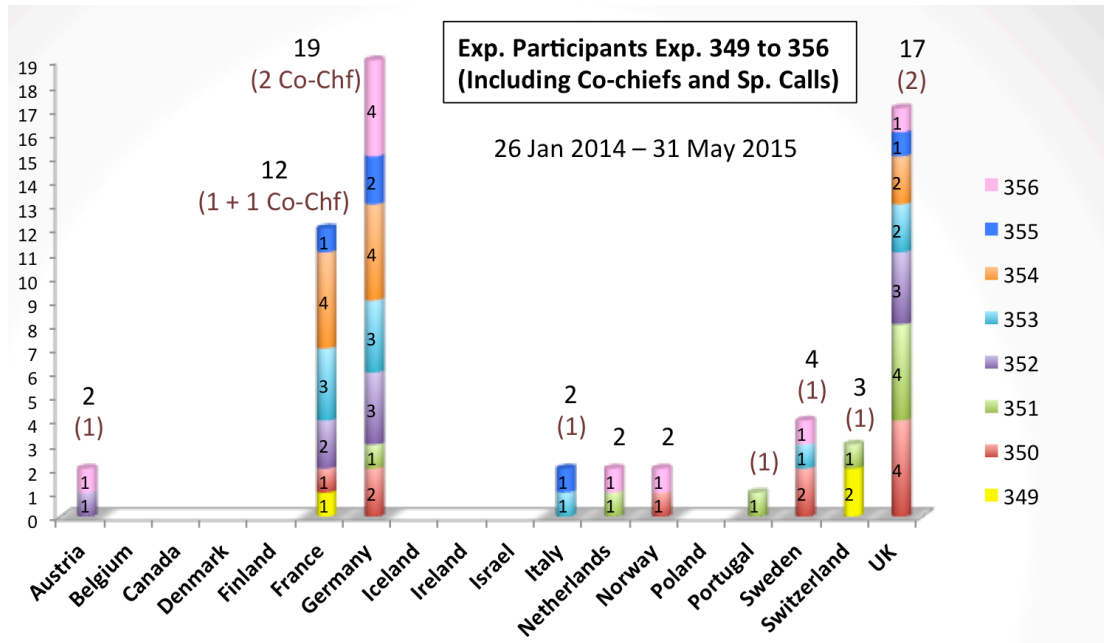
9 Total Co-Chiefs = 1 France, 3 Germany, 4 UK, 1 Switzerland

Annex 4

Summary of Staffing for Exp. 349 to 353 (26 Jan 2014 –29 Jan 2015)



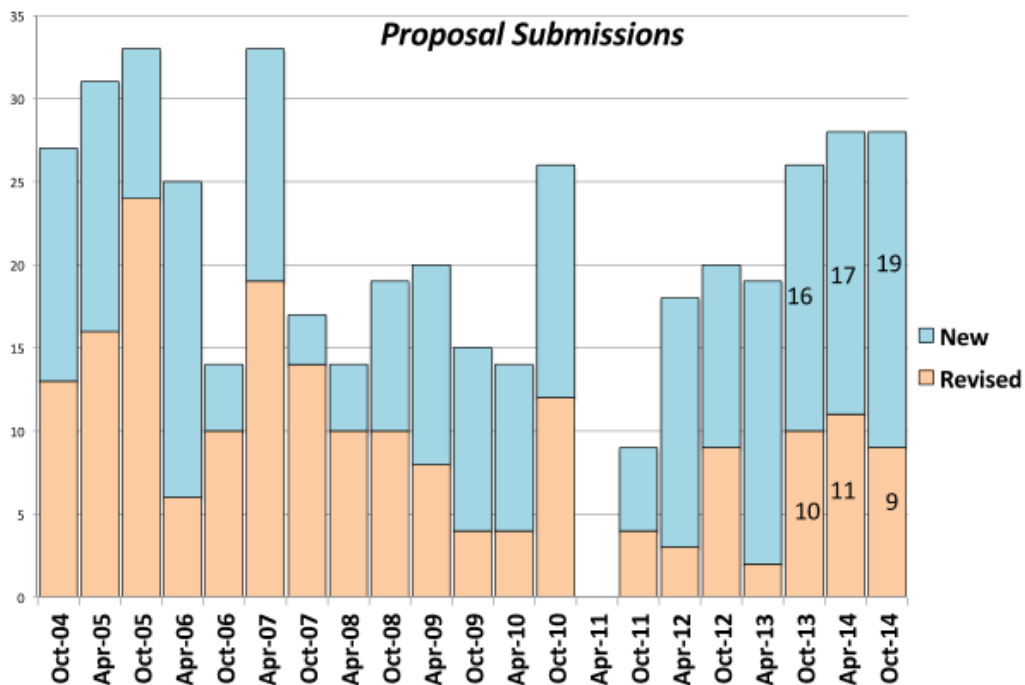
The number of participants by expedition and by country for Exp. 349 to 346



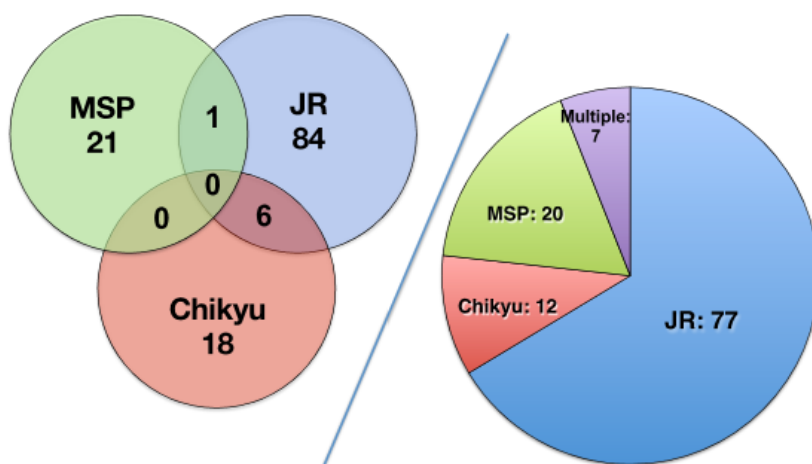
Exp.	Total participants	Sp.Calls & ECORD Co-chiefs
349 CPP	3	1 Sp. Call CH
350	10	2 Sp. Call , 1 Swe, 1 UK
351	8	1 Sp. Call Por
352	9	1 Co-chief UK, 1 Sp. Call Aus
353	10	1 Co-Chief Ger, 1 Sp. Call It
354	10	2 Co-chiefs Fr and Ger, 1 Sp. Call Fr
355 CPP	5	
356	9	

Annex 5

Statistics of IODP proposals

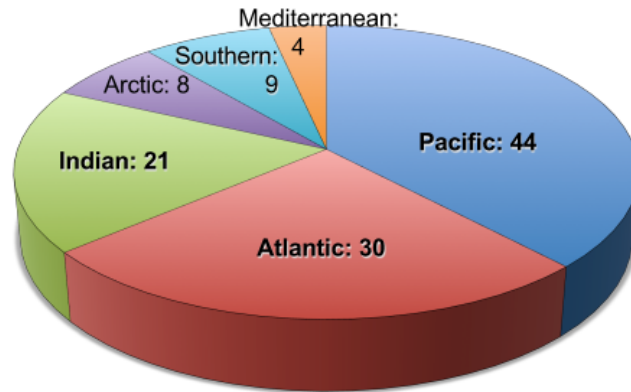


Drilling Platforms for 116 Active Proposals



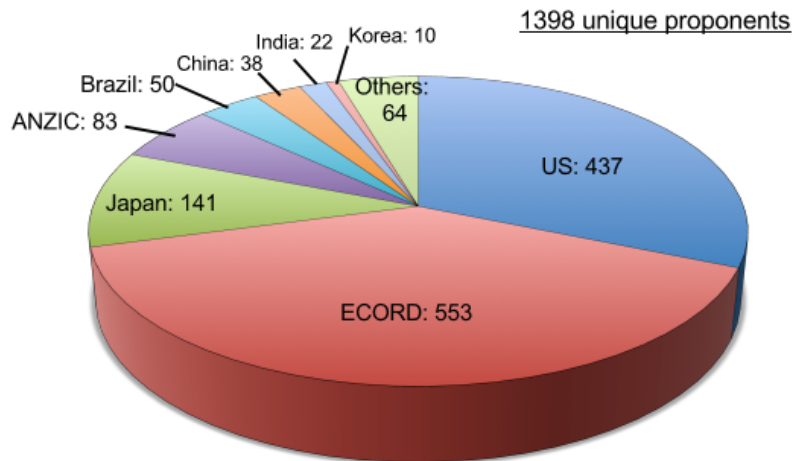
As of 26 November 2014

**Active proposal status: 116
by target ocean**



As of 26 November 2014

Active proponent distribution



As of 26 November 2014

Annex 6

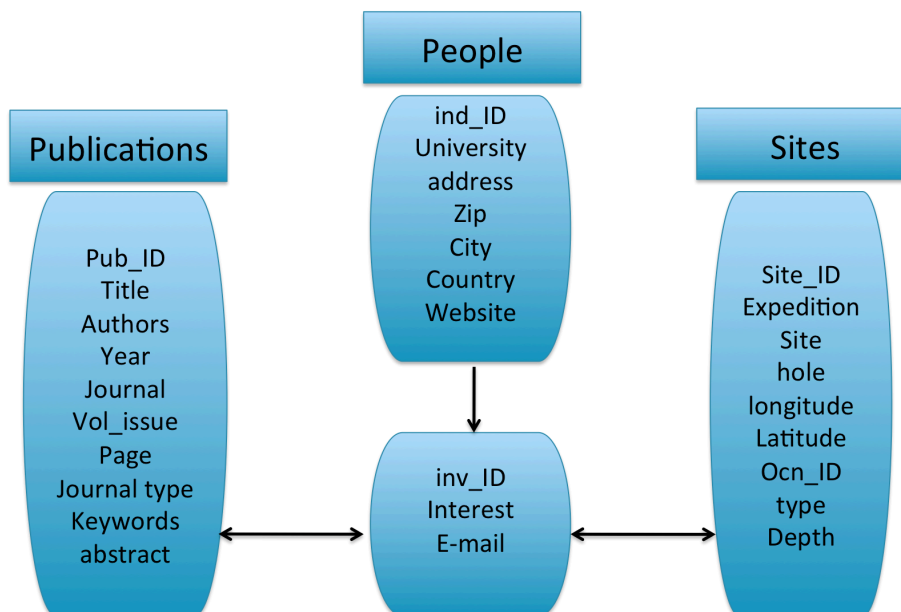
ECORD Publication Database (Supplementary information)

Current Publication Retrieval Results

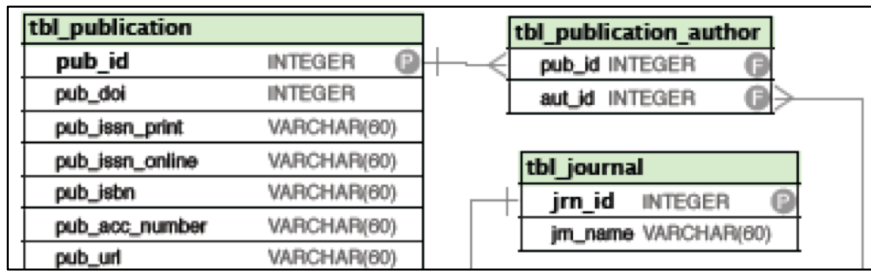
Country	Submitted Publication lists	Range	Publication type Analysis
Germany	http://www.bgr.bund.de/iodp-publikationen	2003-2014	High-impact & peer-reviewed journals & reports
Switzerland	http://www.swissiodp.ethz.ch/SwissIodpPublications.html	ICDP Since 2005	No information
Finland	http://iodpfinland.oulu.fi/contents/projects.htm	ICDP/IODP link	All types
Netherlands	http://www.iodp.nl/publications.html	1984-2013	All types
United Kingdom	http://www.bgs.ac.uk/iodp/recent_publications.html	2011-2013	High-impact & peer-reviewed journals
France	Word list ESSAC ->publications	1994-2014	High-impact & peer-reviewed journals & proceedings
Italy	Word list ESSAC ->publications	2003-2014	High-impact & peer-reviewed journals & proceedings
Portugal	Word list ESSAC ->publications	2003-2014	High-impact & peer-reviewed journals & proceedings, non-peer reviewed material

No submission from: Austria, Belgium, Poland, Sweden, Canada, Denmark, Norway, or Finland;
Spain & Iceland are excluded

Simple Data Management System



Specification & Flow Database System



Reference Systems



Reference Data System Comparison & Ranking

<i>Results of Analysis and evaluation of systems: Ranking</i>	
<p>1. Zotero: Ranked first <i>Killer Criteria: None!</i></p>	
<p>2. RefBase: Was ranked third <i>Killer criteria: Requires an administrator with IT knowledge and some programming costs will be generated</i></p>	
<p>3. Mendeley: Was ranked second <i>Killer Criteria: Information Management Approach, Costs, Sustainability</i></p>	
<p>4. Docear: Still ranked fourth <i>Killer criteria: Text processing is inefficient, and import/export of data is difficult; more useful for social tagging, note taking and mind map</i></p>	

European Consortium for Ocean Research Drilling (ECORD)

ECORD Science Support and Advisory Committee (ESSAC) Terms of Reference

(Revised June 2015)

- **Representation**

The ECORD Science Support and Advisory Committee (ESSAC) consists of a national delegate and an alternate from each participating country in the European Consortium for Ocean Research Drilling (ECORD) appointed by the respective Member Organization(s). Alternates can attend, when in addition to delegates, as non-voting members. Additional non-voting representation may be invited on an ad hoc basis. Terms of office of committee members will be reviewed every three years. A three-year rotation is recommended where possible, and no more than one-third of the membership should be replaced in a given year. The first rotation review will be in 2016 after an appointment of three years. Terms of office will normally begin in January.

- **Chair and Vice-Chair**

A Chair and Vice-Chair shall be appointed by the Executive Bureau and approved by the ECORD Council following an open call, review of applications, and nominations by ESSAC. The Chair is responsible for reporting to the ECORD Council and liaising with the European Managing Agency (EMA) and European Science Operator (ESO). The incoming Chair will serve one year as Vice-Chair followed by two years as Chair and rotates off as Vice-Chair during the fourth year. An optional third year as Chair may be considered, after discussions between the ECORD Council and ESSAC, and after regulation of the duration of the term of the incoming and outgoing Vice-Chairs. The Chair cannot serve two consecutive terms, and consecutive terms in the same host country should be avoided.

ESSAC is represented on the ECORD Facility Board either by the ESSAC Chair or the Vice-Chair. In addition, the ESSAC Chair will act as chair of the Vision Task Force organized by EMA.

- **Division of membership benefits**

The IODP assigned quota of expedition participants granted to ECORD shall reflect the financial contributions of each member country and specific interests of each participating country. ESSAC, in consultation with EMA, shall annually review the distribution effective as of 1 October 2014 and make recommendations in view of the target ratio and specific drilling interests.

The delegates and alternates on IODP Science Advisory Panels and the ECORD Facility Board shall be nominated by ESSAC after an open call and recommendations from national offices, and shall be approved by the ECORD Council. IODP panel membership shall reflect the financial contribution of each participating country over a rolling three-

year period. Normally all ECORD representatives on the IODP advisory panels shall serve for a three-year period and may not be re-appointed for a second consecutive term.

- **Obligations of the ESSAC delegates**

- To ensure that all IODP and ECORD meetings are attended by the delegates or by their alternates. If neither can participate, the relevant committee shall be informed and, if possible, a substitute nominated
- To actively participate in the evaluation process of applications and selection of candidates for IODP Expeditions, ECORD Scholarships, ECORD Grants, DLP lectures and members of IODP and ECORD advisory panels
- To ensure that the scientific interests of ECORD as a whole are represented by whoever attends the IODP advisory panel meetings on behalf of ECORD
- To ensure that the minutes of ESSAC meetings are distributed to the national alternates and ECORD representatives
- To attend ECORD workshops and to report to ESSAC when requested
- To provide information to interested parties within the national scientific communities of each ESSAC member country and to advise on national regulations and policies

- **Voting**

A quorum is required before decisions can be taken. There is no power of attorney for absent members. A quorum requires the presence of a majority of the members. Where possible ESSAC shall proceed by consensus; if this is impossible, there shall be a majority vote. Each delegate present has one vote and the Chair has a casting vote. If no decision is reached, the issue will be passed to ECORD Council.

- **Secretariat**

The ESSAC Office shall be funded from the budget of EMA, after approval by the ECORD Council. The Office shall rotate, on a two-year basis, with the Chair of ESSAC. The budget shall be sufficient to provide salary for a Science Coordinator with a scientific background, the full cost of maintaining an office and resources to compensate the Chair.

- **Tasks**

ESSAC is responsible for the scientific planning and coordination of Europe's contribution to and participation in IODP. The main purpose of ESSAC is to maximize ECORD's scientific and technological contribution to IODP.

ESSAC is responsible for:

- Advising ECORD funding organisations and ECORD Council members on IODP issues
- Coordinating expedition applications, nominating shipboard participants and reviewing quotas of shipboard scientists between participating countries
- Reporting to the ECORD Council
- Liaising with EMA and ESO

- Interacting with the appropriate IODP bodies, in particular the IODP scientific bodies
- Coordinating ECORD Training, Education and Outreach Programmes, through the evaluation of applications and the funding of ECORD Grants, ECORD Schools, ECORD Scholarships, Teachers/Educators at Sea and the Distinguished Lecturer Programme
- Evaluating applications and nominating scientists to participate in the ECORD Facility Board
- Nominating representatives (delegates and alternates) on IODP advisory panels
- Responding to the ECORD Council on requests for evaluation of its activities and initiation of evaluations of the European scientific input to IODP
- Assisting and advising EMA on extending the scientific community of the consortium to non-member countries
- Initiating and monitoring workshops on specific scientific themes and syntheses of European IODP programs
- Assisting and advising EMA on the formulation of proposals for funding European related infrastructure
- Providing stimulation and guidance for the writing of drilling proposals in accordance with the IODP Science Plan and encourage IODP-related activities among participating countries
- Encouraging (a) innovative science and technology development, and (b) the formulation of long-term integrated IODP studies
- Assisting and advising EMA and ESO on public outreach

The ESSAC Chair represents and supports ESSAC in all ECORD and IODP activities. It is the responsibility of the ESSAC Chair to:

- Manage the ESSAC Office
- Oversee and manage ESSAC's scientific activities, including scientific planning, evaluation and staffing of IODP expeditions, and evaluation and nominations of ECORD panel members
- Oversee and coordinate educational activities and participation in defining strategies for ECORD science, funding and technology
- Communicate with and advise IODP program managing and support offices regarding nomination and staffing of expeditions and coordination of education and outreach activities
- Oversee quotas and maintain country balance for IODP expeditions and panel members and participants of education and outreach activities
- Liaise with the ECORD Council, EMA and ESO
- Report to the ECORD Council
- Organise and chair the meetings of ESSAC
- Attend meetings of the ECORD Executive Bureau, ECORD Council and the ECORD Facility Board and provide advice on ECORD science priorities and long-term scientific planning in accordance with the IODP Science Plan
- Chair the ECORD Vision Task Force and assist in ECORD's scientific strategy
- Represent ESSAC at other IODP meetings, such as the JR Facility Board and IODP Forum meetings, or arrange for an appropriate alternate

- Inform the ESSAC delegates of ECORD and IODP activities and decisions
- Provide contributions to ECORD Newsletters and ECORD Annual Reports
- Ensure that an IODP-ECORD/ICDP session is organised at the EGU General Assembly meetings

The ESSAC Science Coordinator shall assist the ESSAC Chair in running the ESSAC Office and is responsible for:

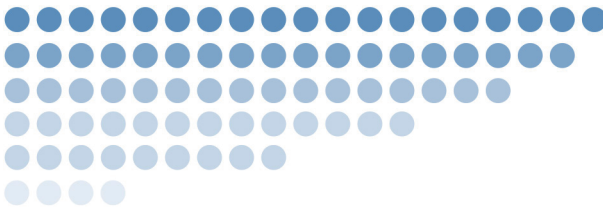
- The day-to-day administration of the ESSAC Office and communication with ESSAC delegates and the wider IODP science community
- Coordinating, preparing, distributing and posting “Calls for Applications” to participate in IODP expeditions, IODP advisory panels and ECORD education and outreach activities (ECORD Research Grants, ECORD Summer Schools, ECORD Scholarships and the Distinguished Lecture Program, opportunities for teachers/educators at sea)
- Distributing other relevant information and announcements through the ESSAC mailing list and social media platforms
- Receiving, compiling and archiving applications for all science, education and outreach activities. Distribute application lists and compile rankings and participant information received from the ESSAC national delegates
- Maintaining and updating the ESSAC website (including Facebook)
- Supporting the scientific community and the IODP National Offices
- Coordinating ECORD Education & Outreach activities, attending ECORD Education & Outreach Task Force meetings, and participating in outreach activities at international meetings (e.g., EGU)
- Planning and assisting in the ESSAC meetings. Preparing the Agenda Book and minutes of these meetings
- Providing contributions for the ECORD Annual Report and ECORD Newsletter

- **Proceedings**

ESSAC shall meet twice a year, or at the request of one-fourth of the members, the ECORD Council, or the ESSAC Chair. The ordinary agenda shall include:

- Reports from recent IODP advisory panel or facility board meetings
- Staffing nominations, progress and evaluation
- Planning of ECORD initiatives for forthcoming IODP advisory panel meetings
- Reports from completed expeditions
- Any other tasks

ESSAC can implement working groups and define their terms of reference.



4th Circular: Program and Early Bird Registration

The **Arctic Science Summit Week (ASSW)** is the annual gathering of the international organizations engaged in supporting and facilitating Arctic research. The purpose of the summit is to provide opportunities for coordination, collaboration and cooperation in all areas of Arctic science. The summit attracts scientists, students, policy makers and other professionals from all over the world. The **ASSW 2015** will be held in **Toyama (Japan)** on **April 23-30** and include business meetings of the participating organizations on **April 23-25**, excursions and a public lecture (in Japanese) on **April 26** and a four day science symposium on **April 27-30**, combining the **Fourth International Symposium on Arctic Research (ISAR-4)** and the **Third International Conference on the Arctic Research Planning (ICARP III)**.

The **Program of the ASSW 2015 Business Meetings** and the **ISAR-4 / ICARP III Symposium** is now available. Conference organizers invite you to register for the conference, noting that **early-bird registration closes on February 28, 2015**. To register please visit: <http://www.assw2015.org/registration/index.html>

Information on accommodation and domestic travel is available on the conference website:

<http://assw2015.org/accommodations/index.html>

http://assw2015.org/venue/venue_02.html

Note that end of April and beginning of May is a high season for tourism in Toyama and book your hotel as soon as possible.

As of FEB 23

ASSW 2015 Business Meetings									
Facility (Capacity)	Hall (825)	201 (72)	202 (72)	203 (72)	204 (72)	Conference (72)	205 (24)	3F Foyer	Civic Plaza
4/23 (Thu)	09:00 - 12:30	IASC WG Common Session				NySMAC			
	Lunch						bilateral Japan / Germany		
	14:00 - 17:30		IASC AWG	IASC CWG	IASC MWG	IASC SHWG	IASC TWG	AFoPS	
	18:00 - 19:30					IASC / UArctic / IASA			
4/24 (Fri)	09:00 - 12:30		IASC Council			NySMAC			
	Lunch								
	14:00 - 17:30		IASC Council			NySMAC			
	18:30 - 20:30							Reception	
4/25 (Sat)	09:00 - 12:30		PAG	ISIRA	EPB	FARO			
	Lunch								
	14:00 - 17:30		PAG		EPB	PaSCAS	FARO		
Excursion (4/26 Sunday) - Full Day									
4/26 (Sun)	09:00 - 12:30		APECS Workshop	MOSAIC	EPB				
	Lunch								
	14:00 - 17:30	Public Lecture (13:00-16:30)	APECS Workshop	MOSAIC	EPB				
	18:30 - 20:30							Icebreaker	

Open Business Meeting, Closed Business Meeting, Open Side Meeting, Closed Side Meeting



ASSW2015 ICARP III / ISAR-4 Symposium

Facility (Capacity)	Hall (825)	201 (72)	202 (72)	203 (72)	204 (72)	Conference (72)	205 (24)	3F Foyer	Civic Plaza	
4/27 (Mon)	09:00 - 12:30	Opening Session								
	Lunch									
	14:00 - 15:30	B6	A2	A4	B2	C1	C6	C10	Poster 1	Weather Linkages
	16:00 - 17:30	B6	A2	A4	B2	C1	C6	C11		
	17:45 - 19:15		Geospace				EU-J-US WS (18:30-21:00)			
4/28 (Tue)	09:00 - 10:15	Plenary Session								
	10:45 - 12:15	B6	C7	A4	B2	B7	B9	C3		SIOS
	Lunch									
	13:45 - 15:15	B6	C7	A1	B2	B7	B9	C4		
	15:45 - 17:15	B6	C7	A1	B10	B7	B9	C8		
17:30 - 19:00								Poster Core Time 1		
4/29 (Wed)	09:00 - 10:15	Plenary Session								
	10:45 - 12:15	B5	B1	B3	B10	B7	Joint Session (C4, 5, 10, 11)		B11	
	Lunch									
	13:45 - 15:15	B5	B1	B3	B10	B7	A6	B11		
	15:45 - 17:15	B5	B1	B3	B10	B7	A6	B11		NRF
	17:30 - 18:45								Poster Core Time 2	
19:00 - 21:00	Banquet at ANA hotel									
4/30 (Thu)	09:00 - 10:15	Plenary Session								
	10:45 - 12:15	B5	B4	B8	C2	C5	A6	A5	Poster 2	
	Lunch									
	13:45 - 15:15	B5	B4	B8	C2	C5	A6			
15:45 - 17:15	Closing Session									

Scientific Session, Open Side Meeting, Closed Side Meeting

Session Titles

- A1 Understanding the Arctic climate change and its global influences: Japan's contributions and suggestions for the future
- A2 Paleoclimatic perspective on Arctic changes and polar amplification
- A4 Geospace over and related to the Arctic region
- A5 The Climatic Threat from Arctic Offshore Methane
- A6 Climate and ecosystem vulnerability in the terrestrial northern high-latitudes
- B1 Arctic Climate Change and Potential Mid-latitude Weather Linkages: Large-scale Atmospheric Circulation and Storm Track Dynamics
- B2 Current and Future Observing Strategies for Understanding the Evolving Arctic Climate and Ecological System
- B3 Changing permafrost and its impact on the physical, ecological, economic and cultural Earth system
- B4 Arctic snow cover changes and their consequences
- B5 Remote Sensing of the Arctic System
- B6 A Pan-Arctic Challenge: Predicting the Future of Marine Biota and Ecosystem Connectivity Through Field Studies and Data Integration
- B7 Atmosphere-ocean-ice interactions and aspects related to a future, seasonally ice free Arctic Ocean
- B8 From human security to geopolitical dynamics in the Global Arctic: the global implications of rapid environmental, economic, and societal change

- B9 Arctic Governance, Sustainable Development of Local Communities and Non-Arctic State's Contribution
- B10 Ice mass loss in Greenland and Arctic glaciers under the influence of changing atmosphere and the ocean
- B11 Navigation and Fisheries in the Arctic: Prospects, Problems and International Policies
- C1 Sharing Arctic Data, Observations and Knowledge: Understanding the Global System through International Exchange
- C2 Arctic in Rapid Transition - future research directions from the perspective of early career scientists
- C3 Emerging questions in Arctic Geoscience
- C4 Co-design, co-production, co-communication of scientific knowledge? how to frame concerted research for sustainable development in times of change
- C5 Advances in Transdisciplinary Arctic Research: Progress on Building Collaborative Agendas for Research Supporting Solutions for Sustainability
- C6 Understanding Sustainability in the Arctic: From Patchwork to Framework
- C7 The Arctic system; changes and effects with emphasis on freshwater ecosystems.
- C8 Circumpolar Arctic Coastal Communities Observatory Network: knowledge hubs for northern coastal sustainability
- C10 Consulting Arctic Communities on Research Planning
- C11 Early Exploration and Exploitation and their Impact Today on Local Arctic Societies

Plenary Keynotes will be presented by:

- Chris Rapley, University College London
- Qin Dahe, Former Chairman of China Meteorology Agency
- Takashi Yamanouchi, Program Manager of GRENE-Arctic project of Japan, National Institute of Polar Research
- Margareta Johansson, Lund University, Sweden
- Gunn-Britt Retter, Saami Council
- Jacqueline Grebmeier, University of Maryland (IASC Medalist)
- Hannu Halinen, Arctic Ambassador of Finland

Important Dates

- February 28, 2015** – Early-bird registration closes
- March 31, 2015** – Registration closes

Main Organizers: IASC & Partner Organizations



Co-Organizer:

Science Council of Japan

Local Organizing Groups:

NIPR, Hokkaido Univ., JAMSTEC and JCAR

Local Supporting Groups:

MEXT / MOFA / JAXA / Tohoku Univ. / Univ. of Toyama / Center for Computational Sci., Univ. of Tsukuba / Graduate School of Frontier Sci., The University of Tokyo / Toyama Prefecture / Toyama Prefectural Board of Education / Toyama City / Tateyama Caldera Sabo Museum



TOYAMA CONFERENCE STATEMENT

INTEGRATING ARCTIC RESEARCH: A ROADMAP FOR THE FUTURE

Arctic Science Summit Week 2015 in Toyama, Japan (23–30 April) brought together nearly 700 international scientists, students, policy makers, research managers, Indigenous Peoples and others interested in developing, prioritizing and coordinating plans for future Arctic research. The Conference was organized by the International Arctic Science Committee and the Science Council of Japan, with the support of many other international partners (www.assw2015.org).

Several overarching messages emerged during the Conference:

- Changes in the Arctic are challenging our understanding of their consequences and our ability to provide knowledge for decision-makers.
- There needs to be a greater sense of urgency among decision-makers and awareness by the general public regarding the global importance of changes taking place in the Arctic.
- It is critical to anticipate changes in the Arctic rather than respond to them, but to do this requires sustained observations and improved understanding of local, regional and global processes. These research challenges must be addressed in a coordinated and timely manner to ensure sustainable development and resilient Arctic communities and ecosystems.
- The rapidly changing Arctic initiates changes that cascade through the global system impacting weather, commerce and ecosystems in the more temperate regions. Linkages across disciplines, scales, and diverse knowledge systems must be addressed in future research activities.
- Understanding the vulnerability and resilience of Arctic environments and societies requires increased international scientific cooperation, including contributions from non-Arctic states.
- More effective use must be made of local and traditional knowledge by engaging northern and Indigenous communities in setting priorities, the co-design and co-production of research, and the dissemination of this knowledge by ensuring appropriate access to research data and results.
- It is essential to build long-term human capacity to support relevant observations and research among scientists, decision-makers and Arctic residents, including Indigenous Peoples, through education and effective public engagement, and by adopting shared principles to guide research activities.
- New markets for Arctic resources and associated activities, including trade, tourism and transportation, will likely emerge faster than the necessary infrastructures on land and sea. Sustainable infrastructure development and innovation to strengthen the resilience of Arctic communities requires a collaborative approach involving scientists, communities, governments, and industry.

The Toyama Conference was a critical step in an international Arctic research planning process involving hundreds of scientists from 27 countries working to improve our understanding of the consequences of changes taking place in the Arctic region, and their connection to global environmental, economic and social processes. These rapid transformations occurring in the Arctic are affecting the entire Earth system, including its climate and weather extremes, through increased temperatures and the continuing loss of ice, glaciers, snow and permafrost. New economic interests in the Arctic have established the region as a larger player in the global economy, but also with very significant local effects. In spite of rapid environmental and social change, the Arctic remains a region of geopolitical stability which is a pre-condition for sustaining Arctic research.

The Final Report from the Conference, guided by discussions and contributions from many partner organizations, will be completed later in 2015. This Report will catalyze and inform the implementation of critical, cooperative, international Arctic research programs over the next decade.

Quotes from Opening Session of Arctic Science Summit Week 2015

“I hope that this international summit for advancement of Arctic science will be a great success.”
Shinzo Abe, Prime Minister of Japan

“How should we face the Arctic in the midst of this great change in the Arctic environment and the social and economic conditions surrounding the Arctic? This is a vital question that not only the Arctic countries but all global citizens, including those from non-Arctic countries like Japan, must address.”
Motoyuki Fujii, State Minister of Education, Culture, Sports, Science and Technology (MEXT)

“The very change that the Arctic is currently undergoing is opening up both new opportunities and new challenges for those who live in the Arctic and others who wish to engage in the Arctic in various ways.”
Susan Barr, President of the International Arctic Science Committee

“For the sustainable development of the Arctic, scientific knowledge is indispensable.”
Takashi Onishi, President of the Science Council of Japan

“Japan is well-suited to develop a national strategy for the Arctic region based on a global perspective that calls on nations worldwide to make concerted and united efforts for protecting the Arctic area.”
Tadahiko Ito, Japanese Parliamentary League of Arctic Frontier Study



The **Arctic Science Summit Week (ASSW)** is the annual gathering of the international organizations, scientists, students, policy makers and other professions engaged in supporting and facilitating Arctic research. Convened annually by the International Arctic Science Committee, it provides opportunities for coordination, collaboration and cooperation in all areas of Arctic science.

ISAR-4

The **Fourth International Symposium on the Arctic Research (ISAR-4)**, hosted by the National Institute of Polar Research, on “Rapid change of the Arctic climate system and its global influence”, aims to facilitate scientific discussions and to promote further national and international cooperation and collaboration, in particular between Arctic and non-Arctic countries.



The **Third International Conference on the Arctic Research Planning (ICARP III)**, organized by the International Arctic Science Committee (www.iasc.info), provides a framework to (i) identify Arctic science priorities for the next decade; (ii) coordinate various Arctic research agendas; (iii) inform policy makers, people who live in or near the Arctic and the global community; and (iv) build constructive relationships between producers and users of knowledge. For more details: icarp.iasc.info

For more information please contact:

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ICARP

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PARTICIPANTS



Third International Conference on Arctic Research Planning

ICARP III provides a framework to:

- Identify Arctic science priorities for the next decade;
- Coordinate various Arctic research agendas;
- Inform policy makers, people who live in or near the Arctic and the global community and,
- Build constructive relationships between producers and users of knowledge.

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C3: Emerging questions in Arctic Geoscience

Main Convener: Victoria Pease

April 28 (Tuesday), Room 205, 10:45-12:15

Chair: Victoria Pease, Bernard Coakley

C03-O01	A SOCIALLY RELEVANT ARCTIC TECTONIC PUZZLE V. Pease*, A. Andresen, J. Toro	
C03-O02	THE EUREKAN DEFORMATION IN THE ARCTIC – AN OUTLINE K. Piepjohn*	
C03-O03	THE GREAT CHALLENGES IN ARCTIC OCEAN PALEOCEANOGRAPHY AND SCIENTIFIC DRILLING R. Stein*	
C03-O04	NEW DATA SUPPORT NEW HYPOTHESES ABOUT ARCTIC OCEAN TECTONICS; PLANNING EXPEDITIONS FOR THE NEXT DECADE. B. Coakley*	
C03-O05	SEISMICITY, STRUCTURE AND TECTONICS IN THE ARCTIC REGION M. Kanao*, V. Suvorov, S. Toda, G. Toyokuni, S. Tsuboi	
C03-O06	CULTURE AND ARCTIC CLIMATE CHANGE: INTEGRATING LONG-TERM PERSPECTIVES FROM ARCHAEOLOGY AND THE ENVIRONMENTAL SCIENCES P. D. Jordan*, M. T. Friesen, M. L. Timmermans	

Annex 8

LIST OF CONSENSUS, MOTIONS AND ACTIONS 4th ESSAC MEETING

May 18-19, 2015
Uppsala, Sweden

1. INTRODUCTION

ESSAC CONSENSUS 1505-01: ESSAC approves the agenda of the 4th ESSAC meeting on 18-19 May, in Uppsala, Sweden.

ESSAC CONSENSUS 1505-02: ESSAC approves the minutes of the 3rd ESSAC meeting held on 7 October in Zurich, Switzerland.

2. IODP – Platform Operator Updates

ESSAC CONSENSUS 1505-03: ESSAC sincerely thanks P. Maruejol for her tremendous efforts in writing, compiling, and editing contributions for the ECORD Newsletter 24 and Annual Report 2014.

4 & 8. NOMINATION AND STAFFING

> **ESSAC Action Item 1505-01:** Prior to sending out ranking packages, the ESSAC Office will consult with the co-chiefs about details of required expertise and any other details of the expedition goals that may not be included in the expedition calls or summaries.

ESSAC CONSENSUS 1505-04: Country balance remains an important criterion in proposing nominations and setting priority lists for IODP expeditions.

ESSAC CONSENSUS 1505-05: ESSAC shall not consider applications to participate on IODP expeditions that have been submitted after the deadlines have passed.

> **ESSAC Action Item 1505-02:** The ESSAC Office shall standardize the acronyms used for countries to avoid confusion.

5 & 7. EDUCATION AND OUTREACH

> **ESSAC Action Item 1505-03:** The ESSAC Office shall contact the main proponents of the newly proposed ECORD Summer School in 2016 "Summer School in Petrophysics (physical properties of ocean sediments and basement from downhole logs and core)" in Leicester to have more details about the

proposal (such as a detailed budget and amount requested, number of teachers, sources of funding, etc). This information will allow the ESSAC delegates to make a second evaluation of the proposal by email.

> **ESSAC Action Item 1505-04:** After receiving more details about the organisation and budget of the 1st ECORD Summer School in Petrophysics, the ESSAC Office will initiate a discussion by email among the ESSAC delegates and/or or Education and Outreach Subcommittee to have the final approval for funding.

> **ESSAC Action Item 1505-05:** ESSAC intends to request € 25,000 to the ECORD Council to fund ECORD Summer Schools 2016.

ESSAC CONSENSUS 1505-06: If the € 25,000 budget is approved by the ECORD Council, ESSAC approves the funding of € 10,000 each for two ECORD Summer Schools in 2016: the ECORD Bremen Summer School 2016 "Submarine Geohazards: Mapping, Monitoring, and Modelling" and the ECORD-Urbino Summer School in Paleoclimatology 2016. ESSAC also reserves € 5,000 to fund the new proposed ECORD Summer School in 2016: Petrophysics (physical properties of ocean sediments and basement from downhole logs and core) in Leicester, should the ESSAC delegates and E & O subcommittee make the recommendation to accept the proposal for this summer school.

ESSAC CONSENSUS 1505-07: If the € 25,000 budget is NOT approved by the ECORD Council, ESSAC will consider the funding of € 7,500 each for the ECORD Bremen Summer School 2015 "Submarine Geohazards: Mapping, Monitoring, and Modelling" and the ECORD-Urbino Summer School in Paleoclimatology 2016, reserving € 5,000 for the 2016 ECORD Summer School in Petrophysics in Leicester, should the ESSAC delegates and E & O subcommittee make the recommendation to accept the proposal for this summer school.

ESSAC CONSENSUS 1505-08: Based on the highest quality applications, ESSAC approves 8 awards for ECORD Research Grants in 2015 up to a maximum of € 2,000 each, totalling € 15.790: 5 UK, 1 Portugal, 1 Italy and 1 Norway.

ESSAC CONSENSUS 1505-09: ESSAC selects 26 awardees of ECORD Summer School Scholarships 2015: 8 awards of € 900/student (3 UK, 2 Germany, 1 France, 1 The Netherlands and 1 Austria) and 2 awards of € 600/student (2 Canada) for the Urbino Summer School in Paleoclimatology 2015; and 12 awards of € 500/student and 4 awards of € 200/student for the ECORD Bremen Summer School 2015 " Ocean crust processes: magma, faults, fluxes, and life" (6 France, 3 Germany, 2 Canada, 2 Italy, 1 Norway, 1 Poland and 1 Sweden).

> **ESSAC Action Item 1505-06:** The ESSAC Office shall communicate to the applicants the outcome of the selection of the ECORD scholarships and grants.

> **ESSAC Action Item 1505-07:** The ESSAC Office shall communicate the outcome of the selection of the ECORD Summer Schools 2016 to the main proponents of the proposals.

> **ESSAC Action Item 1505-08:** The ESSAC Office shall create an online questionnaire for the students that attended the ECORD Summer Schools. The purpose is to get feedback about their degree of satisfaction with the schools. The questions of this questionnaire should be circulated and approved by the ESSAC Education and Outreach Subcommittee.

> **ESSAC Action Item 1505-09:** The ESSAC Office shall request a new budget from the main proponents of the ECORD Training School 2016 (Bremen) to clarify some inconsistency between the budget numbers and total amount requested.

ESSAC CONSENSUS 1505-10: ESSAC approves the funding of € 6,500 for the ECORD Training Course 2016 in Bremen.

> **ESSAC Action Item 1505-10:** The ESSAC Chair shall communicate to ESO and the ECORD Council the wish to modernise the appearance, functionality and usability of the ECORD websites and to update the content to make them more user friendly, informative and attractive to the younger generations.

> **ESSAC Action Item 1505-11:** The ESSAC Office shall include job descriptions for the IODP Expeditions in the "ECORD Guidelines for Applying to Sail" document that is posted on the ESSAC Website.

9. DISCUSSION OF ESSAC CHAIR AND SCIENCE COORDINATOR RESPONSIBILITIES

> **ESSAC Action Item 1505-12:** In the interest of continuing good communication, the ESSAC Chair is requested to write a letter to EMA and the ECORD Council members to open discussions regarding the term of the ESSAC Chair, participation of EMA in ESSAC meetings, and participation and the role of the ESSAC Chair in VTF and ECORD Council meetings. A draft version shall be circulated by email and approved by the ESSAC delegates and alternates at the Uppsala ESSAC meeting.

> **ESSAC Action Item 1505-13:** The ESSAC Chair shall circulate a new version of the ESSAC Terms of Reference (TOR) among the ESSAC delegates for final approval. These shall include responsibilities of the ESSAC Chair and ESSAC Science Coordinator.

ESSAC CONSENSUS 1505-11: ESSAC agrees to keep the term of 2 years for the ESSAC Chair in the ESSAC TOR, with the possibility to extend it to a third year. The ESSAC Terms of Reference shall be modified accordingly.

10. WORKSHOP AND CONFERENCE REPORTS

> **ESSAC Action Item 1505-14:** ESSAC shall identify potential ECORD scientists willing to lead and organise the IODP-ICDP Session "Achievements and perspectives in scientific ocean and continental drilling" of the Ocean and Continental Drilling subgroup of Stratigraphy, Sedimentology & Paleontology (SSP) at the annual EGU General Assembly (Vienna).

11. NEXT ESSAC MEETING

> **ESSAC Action Item 1505-15:** The ESSAC Office shall contact Marco Sacchi as host of the next joint ESSAC/ECORD meeting (Naples) in October to request the possibility to change the order of dates for the ESSAC meeting and Fieldtrip (ESSAC meeting on the first day, Monday 26 October from 13:00 to 17:30, and the field trip on Tuesday 27 October).

11. ANY OTHER BUSINESS

<p>ESSAC CONSENSUS 1505-12: ESSAC warmly thanks Ian Snowball and Jorijntje Henderiks for their hospitality and outstanding organisation of the 4th ESSAC meeting in Uppsala.</p>
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