



**ESSAC Fall Meeting 2023 (#20)**  
2 October 2023

Hotel Le Saint Paul, Nice, France

Meeting Minutes  
20/10/2023

## List of Participants

Role	Member country	Delegate	Alternate	Delegate	Alternate
		In person		Remote	
ESSAC	Austria	Michael Strasser			
ESSAC	Canada	John Jamieson			
ESSAC	Denmark	Marit-Solveig Seidenkrantz			
ESSAC	Finland	Joonas Virtasolo			
ESSAC	France		Anne Le Friant		
ESSAC	Germany	Susann Henkel			
ESSAC	Ireland			David Hardy	
ESSAC	Italy	Angelo Camerlenghi			
ESSAC	Netherlands			Martin Ziegler (partly)	Jeroon van der Lubbe
ESSAC	Norway	Helga F. Kleiven			
ESSAC	Portugal	Antje Voelker			
ESSAC	Spain			Carlota Escutia	
ESSAC	Sweden	Matt Oregan			
ESSAC	Switzerland	Gretchen Früh-Green			
ESSAC	United Kingdom	Antony Morris			
ESSAC SCI. COORD.	Italy	Hanno Kinkel			
EMA	Gilbert Camoin, Nadine Hallmann				
ECORD EFB					
MAGELLAN+					
ESO					
ECORD Council					
OBSERVER	Henk Brinkhuis, IODP Forum Chair				

## Agenda

<b>ESSAC Meeting #20 October 2<sup>nd</sup> 2023 (14:00-17:30) – Draft Agenda</b>		
14:00 – 14:15	1 – Introduction, logistics	
14:15 – 14:30	2 – Updates on the ESSAC composition and ESSAC Office	
14:30 – 14:40	3 – Minutes of ESSAC Spring 2023 Meeting and actions	
14:40 – 15:30	4 - Discussion Items (all addressed briefly in preparation of a more in-depth discussion in the Joint Council-ESSAC Meeting)	
	A. Update on Future Scientific Ocean Drilling. ESSAC post-2024	
	B. Expedition staffing – brief analysis of data <i>inter-nos</i>	
	C. Past and future training activities	
15:30 – 16:00	D. Monitoring of ECORD participation in Scientific Ocean Drilling	
	<i>Coffee - Tea break</i>	
	16:00 – 17:15	5 - Discussion Items (continued)
	A. Ocean Drilling Legacy Asset Projects (LEAPS)	
16:00 – 17:15	B. Next PMO meeting	
	C. ECORD-Japan Workshop (Phase 2)	
	D. Outreach and ECORD-sphere recent and future displays	
	E. Scientific Sessions: AGU Fall Meeting 2023 and EGU GA 2024	
	F. Taira Prize	
	6 - DLP selection of speakers and host institutions	
17:15 – 17:30	AOB and Date and place of Next Meeting	

## 1 – Introduction, logistics

Gilbert summarises the organization of the meeting jointly with the ECORD Council.

The meeting scope was defined as:

1. To review and discuss internally important points to be made in the following days during the Joint ECORD Council – ESSAC meeting
2. To undertake some ESSAC internal tasks and prepare for the transition to IODP<sup>3</sup>

Discussion should be open and extensive, but we should not duplicate items that will be discussed jointly with ECORD Council

Angelo welcomes the Forum Chair Henk Brinkhuis as observer.

Before the start of the meeting, a minute of silence is called to remember Judy McKenzie



## 2 - Updates on the ESSAC composition

The composition of ESSAC has not changed since last meeting

Country	Delegate	Alternate
Austria	Michael Strasser	Walter Kurz
Canada	John Jamieson	Dominique Weis
Denmark	Marit-Solveig Seidenkrantz	Paul Knutz
Finland	Joonas Virtasolo	Christoph Beier
France	Georges Ceuleneer	Anne Le Friant
Germany	Susann Henkel	André Bornemann
Ireland	David Hardy	Xavier Monteys
Italy (Chair)	Angelo Camerlenghi	Riccardo Tribuzio
Netherlands	Martin Ziegler	Jeroen van der Lubbe
Norway	Helga F. Kleiven	Jan Sverre Laberg

Portugal	Antje Voelker	Cristina Veiga-Pires
Spain	Carlota Escutia	tbd
Sweden	Matt O'Regan	tbd
Switzerland	Gretchen Früh-Green	Silvia Spezzaferri
United Kingdom	Antony Morris	Kate Littler

Spain and Sweden will soon define the new delegates/alternates. Delegates of Canada, Denmark, France, Norway, and Switzerland announce changes in delegates and alternates with the start of IODP<sup>3</sup>. These will be communicated via the ECORD Council members.

The ESSAC Office will stay in Trieste until December 31<sup>st</sup> 2024. However, the ECORD Council has proposed that the ESSAC Office will accompany the transition to IODP<sup>3</sup> thus remaining in Trieste until December 31<sup>st</sup> 2025. A decision will be made by consensus during the ECORD Council – ESSAC meeting of the following day. It follows that the new ESSAC Chair must be identified in the next 12 months.

A call will be issued before the summer of 2024. ESSAC members are invited to consider the opportunity or invite colleagues to express interest.

### 3 – Minutes of ESSAC Spring 2023 Meeting and actions

All actions have been completed:

- Action #1:** ESSAC office from now on all ESSAC Correspondence will be addressed to ESSAC delegates with Alternates in copy.
- Action #2:** ESSAC Office will issue a call for Candidates to host the ESSAC Office in June 2023 so that the ECORD Council can approve during the Fall 2023 ECORD joint ECORD Council - ESSAC meeting.
- Action #3:** ESSAC Office will decide date and place of Phase-2 ECORD-Japan Workshop jointly with JDESC involving the Workshop Steering Committee.
- Action #4:** ESSAC Office promotes further discussion on the implementation of a process that will lead to a IODP3 Science White Paper to steer the scientific objectives of the early phase of IODP<sup>3</sup>.
- Action #5:** ESSAC Office asks Dave McInroy to provide the answer to the question whether a test of the rock-drill used during Exp 389 (Hawaii Drowned Reefs) will be performed on basalts outcropping nearby.
- Action #6:** ESSAC Office supports the implementation of LeAPs during the ECORD Council meeting in June 2023.
- Action #7:** ESSAC Office launches a Call for Distinguished Lecture Program soon after the ESSAC Spring Meeting.

The Minutes of ESSAC Spring 2023 meeting circulated on June 21 2023 are approved with no further change

### 4A – Update on Future Scientific Ocean Drilling. ESSAC post 2024

Since the last meeting 5 milestone in the development of post-2024 scientific drilling have passed:

18 August, 2023

NSF 23-138 [Dear Colleague Letter: Request for Expression of Interest to Provide a Coordinating Office for Scientific Ocean Drilling Activities](#)

Deadline 5:00 p.m. Eastern Time on 1 November 2023

18 September 2023

[ESSAC and J-DESC announce a call for expressions of interest in hosting the International Ocean Drilling Programme \(IODP<sup>3</sup>\) Science Office](#)

Deadline 17.00 CET on 30 November 2023

13-20 September 2023

ECORD-Japan MoU Writing Retreat in Papple Farm, near Edinburgh, Scotland

2 additional milestone refer to the LeAPs and are detailed under Agenda Point 5A

### **Summary of the planned IODP<sup>3</sup> structure and role of ESSAC:**

IODP<sup>3</sup> Membership

- Core (funding) members: ECORD and *Japan*
- Most likely Associated Members: ANZIC IODP<sup>3</sup>-India

IODP<sup>3</sup> entities

- Vision Task Force
- MSP Facility Board
- Science Evaluation Panel
- Safety and Environmental Advisory (SEA) Group
- Magellan<sup>3</sup> Committee
- Science Office

Within ECORD, ESSAC will remain as ECORD PMO like other PMOs of other members

### SEP Across the transition to IODP<sup>3</sup>

SEP membership should be 2/3 Core Members and 1/3 Associated Members, with equal participation between ECORD and Japan (about 30 members; exact number can be adapted based on expertise needed).

With the purpose of avoiding knowledge and operational gaps and ensure continuity, ESSAC has been tasked by the IODP<sup>3</sup> working group to:

- Ask the ECORD co-Chair of SEP if he is willing to participate as Chair of the IODP<sup>3</sup> SEP
- Ask the current ECORD SEP members if they want to stay in the IODP<sup>3</sup> SEP across the transition

As of today, the Chair and a good part of the ECORD SEP members have already declared their availability to continue.

## Present ECORD SEP members

SEP ESSAC Member Terms						Start	End	EXTENSION
Thorsten Karsten	Bauersachs Gohl	University of Kiel AWI	GER GER	Science Science	Member Member	1-Jun-19	31-May-22	31-May-23
Lisa Julie	McNeill Prytulak	NOC Durham University	UK UK	Science Science	Co-chair Member	1-Jun-19	31-Mar-22	
Paola Antje	Vannucchi Voelker	University of Florence IPMA	ITA POR	Science Science	Member Member	1-Jun-19	31-May-22	31-May-23
Christoph Clara	Beier Bolton	University of Helsinki CEREGE	FIN FRA	Science Science	Member Member	1-Jun-21	31-May-24	extend to end of the program? And into 2025?
Anne Mike	Briais Weber	Institut Universitaire Euro University of Bonn	FRA GER	Science Science	Member Member	1-Jun-21	31-May-24	extend to end of the program? And into 2025?
Matt Gerald	Ikari Dickens	University of Bremen University of Dublin	GER IRE	Science Science	Member Member	1-Jun-22	end IODP	extend into 2025?
Michelle Erin	Harris McClymont	University of Plymouth Durham University	UK UK	Science Science	Member Member	1-Jun-23	end IODP	extend into 2025?
Alessio	Sanfilippo	University of Pavia	ITA	Science	Member	1-Jun-22	end IODP	extend into 2025?
Silvia Christian	Ceramicola Hübscher	OGS University of Hamburg	ITA GER	Site Site	Member Member	1-Jun-19	31-May-22	
Uisdean Tilmann	Nicholson Schwenk	Heriot-Watt University University of Bremen	UK GER	Site Site	Member Member	1-Jun-20	31-May-23	31-May-23
Tim Nick	Reston Schofield	University of Birmingham University of Aberdeen	UK UK	Site Site	Co-chair Member	1-Dec-21	end IODP	extend into 2025?
Maria Filomena	Loreto	SNR-ISMAR	ITA	Site	Member	1-Jun-22	end IODP	extend into 2025?
Laura Jonas	De Santis Preine	OGS University of Hamburg	ITA GER	Site Site	Member Member	1-Jun-23	end IODP	extend into 2025?

## 4B. Expedition staffing – brief analysis of data inter-nos

Present status of Staffing IODP Expeditions:

### 2023-2024 Schedule

STAFFED AND COMPLETED	Exp. 398 Hellenic Arc Volcanic Field	Dec 11, 2022 – Feb 10, 2023	
	Exp. 399 Building Blocks of Life, Atlantis Massif	Apr 12 – Jun 12, 2023	
	Exp. 395 Reykjanes Mantle Convection and Climate	Jun 12 – Aug 12, 2023	
STAFFED and ONGOING	Exp. 400 NW Greenland Glaciated Margin	Aug 12 – Oct 12, 2023	
	Exp. 389 Hawaiian Drowned Reefs	Aug 31 – Oct 31, 2023	
STAFFED	Exp. 401 Mediterranean-Atlantic Gateway Exchange	Dec. 10, 2023 – Feb. 9, 2024	
	Exp. 402 Tyrrhenian Continent-Ocean Transition	Feb. 9 – Apr. 8, 2024	
	Exp. 403 Eastern Fram Strait Paleo-archive	June 4 – Aug. 2, 2024	
STAFFING IN PROGRESS	Exp. 406 New England Shelf Hydrogeology	2024	Staffing Proposal sent to ESO
	Exp. 405 Japan Trench Tsunamigenesis	Sep 12 - Dec 7, 2024	NEW DEADLINE Oct 2 2023

## Summary of recent invited ECORD scientists:

**Exp. 399 Building Blocks of Life, Atlantis Massif** (Co-chief Scientists: Andrew McCaig ECORD and Susan Lang US)

1. Co-chief Scientist McCaig, Andrew (UK)
2. Structural Geologist COLTAT, Remi J.M.B. (FRA)
3. Inorganic geochemist, GODARD, Marguerite M. (FRA)
4. Structural Geologist KUEHN, Rebecca (GER)
5. Igneous Petrologist LISSEBERG, Cornelis Johannes (UK)
6. Petrologist PARSONS, Andrew J (UK)
7. Inorganic geochemist/ organic geochemist SISSMANN, Oliver J. (FRA)

**Exp. 395 Reykjanes Mantle Convection and Climate** (Co-chief Scientists: Ross Parnell-Turner US and Anne Briais ECORD)

1. Co-chief Scientist, BRIAIS, Anne (FRA)

2. Paleomagnetist, DI CHARA, Anna (ITA)
3. Micropaleontologist (nannofossils), KARATSOLIS, Boris T. (SWE)
4. Physical Properties Specialist/Stratigraphic Correlator, SINNESAELE Mathias (FRA)
5. Sedimentologist, MODESTU, Sevasti E. (UK) formerly NORWAY
6. Petrologist, MURTON Bramley, (UK) SHORE-BASED
7. Petrologist, PASQUET Gabriel T. (FRA)
8. Paleomagnetist, SATOLLI, Sara (ITA) SHORE-BASED

Special Call

1. Micropaleontologist (nannofossils), DUNKLEY JONES, Thomas (UK)
2. Downhole Tools/Physical Properties Specialist, McNAMARA, David D. (UK)
3. Micropaleontologist (planktic foraminifers), PEARSON Paul N. (UK)
4. Physical Properties Specialist, WHITE Nicholas J. (UK)

**Exp. 400 NW Greenland Glaciated Margin (Co-chief Scientists: Paul Knutz ECORD and Anne Jennings US)**

1. Co-chief Scientist, KNUTZ, Paul (DEN)
2. Micropaleontologist (planktic foraminifers), COXALL Helen Katherine (SWE)
3. Sedimentologist, LE HOUÉDEC, Sandrine (SWI)
4. Paleontologist, NELISSES, Mei (NED)
5. Micropaleontologist (diatoms), ÖZEN, Volker (GER)
6. Stratigraphic Correlator/Downhole Measurements, PEREZ MIGUEL, Lara Felicidad (DEN)
7. Inorganic Geochemist, STAUDIGEL, Philip (GER)

Special Call

1. Micropaleontologist, ZIMMERMANN, Heike (DEN)

**Exp. 389 Hawaiian Drowned Reefs (Co-Chief Scientists: Jody Webster ANZIC and Christina Ravelo US)**

1. Inorganic Geochemist, ALLISON, Nicola (UK)
2. Inorganic Geochemist, FELIS, Thomas (GER)
3. Sedimentologist, GISHLER, Eberhardt (GER)
4. Inorganic Geochemist, GREVE, Sahra (GER)
5. Sedimentologist, HAMON, Youri (FRA)
6. Inorganic Geochemist, HATHORNE, Ed (GER)
7. Physical Properties Specialist, JORRY, Stephan J. (FRA)
8. Sedimentologist, NOHL, Theresa (AUT)
9. Microbiologist, PROHASKA, Ana (DEN)
10. Micropaleontologist (benthic forams), RENEMA, Willem (NED)
11. Sedimentologist, WESTPHAL, Hildegard (GER)

**Exp. 401 Mediterranean-Atlantic Gateway Exchange (Co-chief Scientist, Rachel Flecker ECORD and Emmanuelle Doucassou ECORD)**

1. Co-chief Scientist, FLECKER, Rachel (UK)
2. Co-chief Scientist, DOUCASSOU, Emmanuelle (FRA)

3. Sedimentologist, FABREGAS, Natacha Fabregas (NOR)
4. Sedimentologist, HERNANDEZ MOINA, Javier (UK)
5. Paleomagnetist, KRIJGSMAN, Wout (NED)
6. Physical Properties specialist/Downhole Measurements, RAAD, Fadl (FRA)
7. Micropaleontologis (Foraminifera), SIERRO Francisco Javier (ESP)

Special Call

1. Sedimentologist, RODRIGUEZ TOVAR, Francisco Javier (ESP)

**Exp. 402 Tyrrhenian Continent-Ocean Transition** (Co-chief scientists Nevio Zitellini ECORD and Alberto Malinverno US)

1. **Co-chief Scientist**, ZITELLINI Nevio (ITA)
2. Igneous petrologist, BICKERT, Manon, (FRA) ERC
3. Igneous petrologist, GARRIDO Carlos (ESP)
4. Inorganic/organic geochemist, GONTHARED, Swanne (FRA)
5. Physical Properties, LORETO Maria Filomena (ITA)
6. Sedimentologist, MENAPACE Walter, (GER) ERC
7. Physical properties/downhole measurements, PEZARD Philippe (FRA)

Special Call

1. Micropaleontology (Nannofossils), DISTEFANO Agata (ITA)

**Exp. 403 Eastern Fram Strait Paleo-Archive** (Co-chief scientists Renata Giulia Lucchi ECORD and Kristen St. John US)

Invited ESSAC scientists

1. Co-chief Scientist, LUCCHI Renata Giulia (ITA)
2. Micropaleontologist (Dinocysts), DE SHEPPER Stijn (NOR)
3. Stratigraphic Correlator and Sedimentology, GEBHARDT Catalina (GER)
4. Micropaleontologist/Nannofossils, GONZALEZ-LANCHAS Alba (UK)
5. Physical Properties Specialist, GRUEZTNER Jens, (GER)
6. Micropaleontologist (foraminifers), HUSUM Katrine (NOR)

Special Call:

1. Micropaleontologist (diatoms), BARCENA Maria A. (ESP)\*

\* Special Call counting towards quota

**Exp. 406 New England Shelf Hydrogeology** (Co-chief Scientists: Brandon Dugan US and Karen Johannesson US)

ECORD applicants

1. Core Description, Organic Geochemistry, BOWDEN Stephen (UK)
2. *Core Description, Petrophysics; Inorganic Geochemistry*, CLARKE Leon (UK)
3. Core Description, Stratigraphic Correlation; Petrophysics, GAMBOA Davide (PRT)
4. Organic Geochemistry, HEUER Verena (GER)
5. Inorganic Geochemistry, KIPFER Rolf (SUI)
6. Inorganic Geochemistry, MÜLLER Thomas (GER)
7. Inorganic Geochemistry, van BREIKELEN Boris (NED)
8. Inorganic Geochemistry, ZABEL Matthias (GER) - ECR

9. Core Description, Inorganic Geochemistry, BEJAERT, David (FRA) - ECR
10. Core description, Strat. Corr., Micropaleontology, Geochemistry, CAMPO Bruno (ITA) - ECR
11. Core description, ROSSI Valentina (ITA) - ECR
12. Core Description, Inorganic Geochemistry, Longeau, Alize (FRA) - PhD
13. Organic and Inorganic Geochemistry, ten Hietbrink, Sophie (SWE) - PhD
14. Core Description, Petrophysics, Inorganic Geochemistry, Soleimani, Mojgan (FRA) - PhD

Updated Analysis of participation versus Quota:

ALL EXPEDITIONS EXCEPT 405 AND 406

21/09/2023 ALL EXPEDITIONS EXCEPT 405 AND 406

Member	Financial contributions								Quota calculations							
	Contributions (\$US) upto and inc 2019	FY 2020 (\$US)	FY 2021 (\$US)	FY 2022 (\$US)	FY 2023 (\$US)	FY 2024 (\$US)	Total contributions	% contribution	Total berths	Total quota berths	Total non-quota berths	Berth entitlement	Quota difference	% of quota berths	% budget	% difference
France	26,682,460	3,908,000	4,328,800	3,146,680	3,146,680		41,212,620	24.1%	84	81	3	86.0	-5.0	22.69	24.09	-1.41
Germany	33,600,000	5,600,000	5,600,000	5,600,000	5,600,000		56,000,000	32.7%	133	109	24	116.9	-7.9	30.53	32.74	-2.21
UK	22,089,870	3,364,000	3,545,300	3,386,000	1,110,000		33,495,170	19.6%	107	75	32	69.9	5.1	21.01	19.58	1.43
<b>Sum</b>	<b>82,372,330</b>	<b>12,872,000</b>	<b>13,474,100</b>	<b>12,132,680</b>	<b>9,856,680</b>		<b>130,707,790</b>	<b>76.4%</b>	<b>324</b>	<b>265</b>	<b>59</b>	<b>272.8</b>	<b>-7.8</b>	<b>74.23</b>	<b>76.42</b>	<b>-2.19</b>
Austria	600,000	100,000	100,000	100,000	100,000		1,000,000	0.6%	10	4	6	2.1	1.9	1.12	0.58	0.54
Canada	323,400	106,000	115,000	115,000	115,000		774,400	0.5%	6	5	1	1.6	3.4	1.40	0.45	0.95
Denmark	940,800	146,000	146,000	150,000	150,000		1,532,800	0.9%	7	5	2	3.2	1.8	1.40	0.90	0.50
Finland	480,000	80,000	80,000	80,000	80,000		800,000	0.5%	1	1	0	1.7	-0.7	0.28	0.47	-0.19
Ireland	746,810	109,000	120,000	120,000	120,000		1,215,810	0.7%	3	3	0	2.5	0.5	0.84	0.71	0.13
Italy	2,700,000	500,000	600,000	700,000	750,000		5,250,000	3.1%	23	15	8	11.0	4.0	4.20	3.07	1.13
Netherlands	3,100,000	600,000	600,000	600,000	600,000		5,500,000	3.2%	13	12	1	11.5	0.5	3.36	3.22	0.15
Norway	6,600,000	1,100,000	1,100,000	1,100,000	1,100,000		11,000,000	6.4%	18	17	1	23.0	-6.0	4.76	6.43	-1.67
Portugal	540,000	90,000	87,700	90,000	90,000		897,700	0.5%	6	3	3	1.9	1.1	0.84	0.52	0.32
Spain	329,000	0	0	660,000	165,000		1,154,000	0.7%	10	8	2	2.4	5.6	2.24	0.67	1.57
Sweden	3,040,000	400,000	400,000	400,000	400,000		4,640,000	2.7%	10	8	2	9.7	-1.7	2.24	2.71	-0.47
Switzerland	3,600,000	600,000	600,000	600,000	600,000		6,000,000	3.5%	10	8	2	12.5	-4.5	2.24	3.51	-1.27
Belgium	58,100						58,100	0.0%	1	1	0	0.1	0.9	0.28	0.03	0.25
Iceland	30,000						30,000	0.0%	0	0	0	0.1	-0.1	0.00	0.02	-0.02
Israel	90,000						90,000	0.1%	1	1	0	0.2	0.8	0.28	0.05	0.23
Poland	60,000						60,000	0.0%	1	1	0	0.1	0.9	0.28	0.04	0.25
<b>Sum</b>	<b>23,574,110</b>	<b>3,831,000</b>	<b>3,948,700</b>	<b>4,715,000</b>	<b>4,270,000</b>		<b>40,338,810</b>	<b>23.6%</b>	<b>120</b>	<b>92</b>	<b>28</b>	<b>84.2</b>	<b>7.8</b>	<b>25.77</b>	<b>23.58</b>	<b>2.19</b>
<b>TOTAL ECORD</b>	<b>105,946,440</b>	<b>16,703,000</b>	<b>17,422,800</b>	<b>16,847,680</b>	<b>14,126,680</b>		<b>171,046,600</b>	<b>100.0%</b>	<b>444</b>	<b>357</b>	<b>87</b>	<b>357</b>	<b>0</b>	<b>100</b>	<b>100</b>	<b>0</b>

It is pointed out that in spite of the difference with respect to Quota and thanks to the instrument of Special Calls and the non-quota co-chief scientists, the actual number of scientists who were invited in IODP Expeditions is equal or larger than the number resulting from the quota of each ECORD member. Therefore, no ECORD member has had less participants in expeditions than they paid for, and many members had several scientists in excess of what they paid for (see table below).

ALL EXPEDITIONS EXCEPT 405 AND 406

Member	% contribution	Total quota berths	Total non-quota berths	Total berths
France	24.1%	81	3	84
Germany	32.7%	109	24	133
UK	19.6%	75	32	107
<b>Sum</b>	<b>76.4%</b>	<b>265</b>	<b>59</b>	<b>324</b>
Austria	0.6%	4	6	10
Canada	0.5%	5	1	6
Denmark	0.9%	5	2	7
Finland	0.5%	1	0	1
Ireland	0.7%	3	0	3
Italy	3.1%	15	8	23
Netherlands	3.2%	12	1	13
Norway	6.4%	17	1	18
Portugal	0.5%	3	3	6
Spain	0.7%	8	2	10
Sweden	2.7%	8	2	10
Switzerland	3.5%	8	2	10
Belgium	0.0%	1	0	1
Iceland	0.0%	0	0	0
Israel	0.1%	1	0	1
Poland	0.0%	1	0	1
<b>Sum</b>	<b>23.6%</b>	<b>92</b>	<b>28</b>	<b>120</b>
<b>TOTAL ECORD</b>	<b>100.0%</b>	<b>357</b>	<b>87</b>	<b>444</b>

Berths gained through Special Calls and Co-Chief scientists (when counting on quota)

No members lost any berth with respect to the quota indicated

Only two members had the same berths as indicated by the quota (Finland and Ireland)

The overall statistics on ECORD participation in IODP Expeditions with respect to gender and career stage is like that presented in the ESSAC Spring meeting (reference is made to the Minutes and the Agenda Book of that meeting).

Discussion on staffing procedures in view of IODP<sup>3</sup>.

The process of staffing results from a complex exercise that considers 4 aspects of applicants (4-D exercise):

- Expertise/scientific quality
- Career stage
- Gender
- Membership

ESSAC provides co-chief scientists and the Operator with a list of best applicants (normally falling in the highest quintile of the independent ranking performed by each ESSAC member). It is known that in some occasions, other IODP members PMOs submit a clear indication for the scientist(s) that should be invited. In this way, the chois of fill re meaning positions (Including the ECORD ones) become limited.

The question is asked if there is a feedback from co-chiefs. Co-chiefs have openly asked for a more homogeneous background information on applicants (especially the CV). However, the problem of limited choice during staffing is acknowledged by all co-chief scientists, and flexibility is appreciated by Operators.

It is agreed that the evaluation of application should be kept simple, aiming at identifying possibly three categories of quality, and that an ample list reflecting diversity of gender and career stage is submitted to the co-chief scientists, eventually pointing only at the best-ranked applicant in each of the three career stages. ESSAC is in favor of suggesting all IODP<sup>3</sup> PMO do provide operators with a short-lit of best applicants, not ranked, that is at least twice the number of allowed participants according to quota.

An additional point that generated consensus is that more chances should be given to co-proponents to be included in science parties. With MSP drilling and the new expedition implementation in IODP3, there will be three categories of shipboard participants that will help solving the problem. ESSAC should be involved in the evaluation of all applications.

The number of science parties should also be variable following the scientific needs of each expedition.

#### 4C. Past and future training activities

The summary of participation in 2023 ECORD Summer schools is as follows:

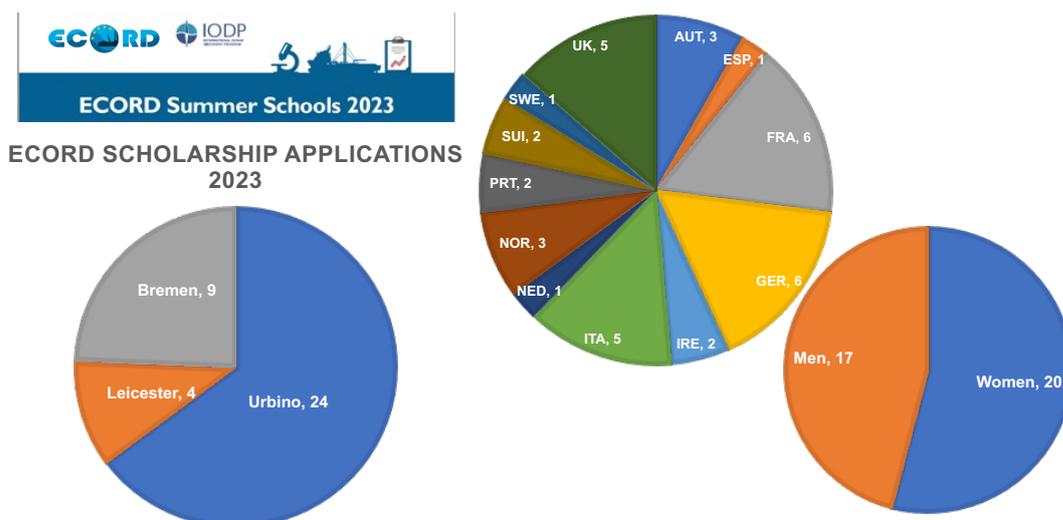
2023 Summer Schools	LEICESTER	URBINO	BREMEN	ALL
Total participants	26	49	22	97
ECORD Participants	16	30	18	64

In addition, ESSAC contributed to the INA SUMMER SCHOOL on EVOLUTION and TAXONOMY INASSET 2023 - Mesozoic Nannofossils, Parma, June 25th – July 1st 2023, which had 20 Participants.

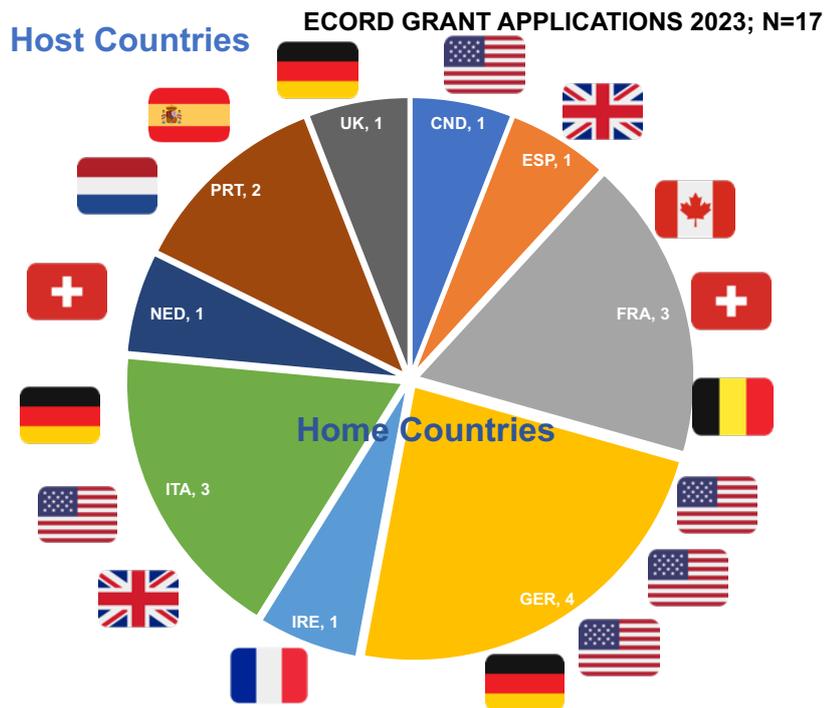
The Bremen Training Course Shipboard Simulation Experience had the following participation:

2023 Training Course	BREMEN
Total participants	30
ECORD Participants	18

All ECORD members provided good candidates to the Schools and Course with a good gender balance.



ESSAC Grants were awarded according to the following scheme. There has been a good and diverse participation in the call that included outside ECORD country destinations.



It is agreed during the meeting that the training offer is adequate and of high level. All ECORD members provide good candidates.

The discussion shifts on the future of the Training in IODP<sup>3</sup>.

**IN teh scheme of IODP<sup>3</sup> implementation, Educational activities should play an important role and should be coordinate at program-wide level.**

- Drilling expeditions
- Legacy asset projects (SPARCs)
- Workshops
- **Educational activities\***
- Core repositories

**\* Educational activities\***

- PROGRAM-WIDE COORDINATION
  - SCHOOLS and Training WORKSHOPS
  - SCHOLARSHIPS
  - Distinguished Lecture Program

The question is whether IODP<sup>3</sup> needs new thematic schools. Two theme that are crucial in scientific drilling in sedimentary basins are discussed:

- 1) Biostratigraphy. It is recognized that biostratigraphers are extremely important, and in general there is a decline in the number of students and post-docs approaching this decline. However,

several schools already exist under national or international associations. In addition, biostratigraphy is already addressed, although marginally, in the Urbino School of Paleoceanography. Biostratigraphy should in fact be always associated to paleoceanography and paleoclimate science.

- 2) Sedimentology. It is recognized that sedimentology based on observation and core description before proxy data interpretation is important. Often shipboard sedimentologists are not true experts and take the position without the desired skills. The GLASS School offered twice in Oregon State on sedimentology of glacial sediments was a good example.

A consensus is reached on the need to re-think the educational offer through summer schools and courses, provided that the value of this part of the implementation of the program is not decreased, and, if possible, is increased.

Because the consensus is also reached on the need to implement a program-wide training activity in IODP3, it is agreed that no decision should be made by ESSA alone on new schools, and these will be discussed jointly at PMO level.

Action #1 – ESSAC Office discuss the post-2024 educational offer as a possible joint activity among POMOs during the PMO meeting in Wollongong, Australia

#### **4D. Monitoring of ECORD participation in Scientific Ocean Drilling**

The systematic and digital monitoring of the participation of each scientist in the activities of IODP3 is recognized as important for the assessment of the performance of the Program and its members. Therefore, it should be homogeneous at program-level, web-based (data in data-base should be non-sensitive simple meta-data). The database structure should follow the SMART Concept (Specific, measurable, achievable, relevant, and time-bound), and should aim at the identification of Key performance Indicators.

A summary of the matrix of the activities to be monitored is presented:

<b>ENTRY</b>
PARTICIPANT PROFILE
<b>SCIENCE</b>
PROPOSALS
EXPEDITIONS
LEGACY PROJECTS
SAMPLE REQUESTS
RESEARCH GRANTS
MASTER AND PhD THESES
PUBLICATIONS
<b>ADVISORY STRUCTURE</b>
PANELS
<b>TRAINING</b>
TRAINING COURSE (Summer Schools/Courses/Training Workshops)
SCHOLARSHIPS
DISTINGUISHED LECTURE PROGRAM (DLP)
<b>WORKSHOPS</b>

PLANNING WORKSHOPS
<b>OUTREACH</b>
BLOGS DURING EXPEDITIONS
SCIENTIFIC CONFERENCES
INTERVIEWS
SOCIAL MEDIA
CREATIVE CONTENT CREATION
OTHER
<b>OTHER</b>
EXPEDITIONS STATISTICS

Action #2 – ESSAC Office present this matrix and its expanded version to the PMO meeting in Wollongong, Australia for discussion with other PMOs and the results of the discussion will be reported in the next ESSAC meeting.

### 5A - Ocean Drilling Legacy Asset Projects (LeAPS)

IODP has launched the Pilot Call for LeAPs

Two milestones:

#### August 2023

<https://www.iodp.org/top-resources/program-documents/policies-and-guidelines/1219-leaps-proposal-submission-guidelines-august-2023/file>

#### August, 2023

IODP [Call for Submission of LeAPs Proposals](#)

Deadline 23:59 UTC on 1 November 2023

(LEAPs) are a new type of project for international and interdisciplinary collaborations under the umbrella of the scientific ocean drilling programs.

- (1) address at least one aspect of the 2050 Science Framework,
- (2) have objectives that maximize the return on the legacy assets of current and past scientific ocean drilling programs without new drilling.

The definition for LEAPs is deliberately broad to provide flexibility for new approaches, integrations, and technology uses that foster coordinated multidisciplinary and international research efforts. LEAPs also provide an opportunity through which researchers can increase the visibility of their research and results.

<b>LeAPs submission and evaluation structure</b>
2-stage proposal submission
Pre-proposal (Max 10 proponents)
Engagement Plan
Management Plan
Full Proposal (Max 15 proponents)

list of the science party
engagement results
revised Management Plan
Reporting
Scientific Evaluation: SEP
No funding scheme

In IODP3, a similar initiative that will continue the LeAPs, has been drafted during the ECORD-Japan MoU Writing Retreat in Scotland, called **Scientific Projects using Ocean Drilling Archives – SPARCs** that will build on the 4 existing initiatives:

**LEAPs** Bound to IODP. Two calls before the end of the Current Program. Not sure how they will continue

**J-DESC** Repository Core Re-Discovery Program (ReCoRD)

**ANZIC** Legacy Analytical Funding Program (AILAF)

**IODP<sup>3</sup>** Scientific Projects using Ocean Drilling Archives (SPARCs)

Integration of all the above

#### Key elements of PARCs:

- Rapid assessment and rapid implementation of SPARCs
- Submission: Single-stage proposal submission
- Evaluation: rapid SEP evaluation with SEP nominating Co-chief scientists from proponent list for successful projects (fast-track evaluation)
- Funding: Funding scheme identified
- The aim to implement two SPARCs per year

ESSAC agree on the SPARC concepts and has no further suggestions. In particular the role of SPARC is recognized as a way to implement SF 2050 Flagship Initiatives.

#### **5B - Next PMO meeting**

Information is given on the agenda of the upcoming Program Member Offices Meeting, October 12-13, 2023, Wollongong, Australia

#### **5C - ECORD-Japan Workshop (Phase 2)**

Information is given on the organization of the Phase-2 Workshop on the future of Scientific Ocean Drilling with MSP and Chikyu (18-20 March 2024 (plus field trip), Nachikatsuura, Kii Peninsula, Japan.

The Save-the-date message has been circulated by ESSAC and J-DESC in September 2023.

A sub-group of the Steering committee has been formed to define the scientific program:

#### Deep life

Vanni Aloisi  
Yuki Morono

#### Deep Earth

Tony Morris  
Tomoaki Morishita

#### Geohazards

Kohtaro Ujiie  
Masa Kinoshita  
Climate Change and Ocean Health  
Helen Coxall  
Thorsten Bauersachs

A Call for participation will be issued in the next weeks.

## **5D - Outreach and ECORD-sphere recent and future displays**

Displays of the ECORD-Sphere after Vienna (Scientific Drilling exhibition booth at EGU 2023):

From July to October: interactive exhibition "**3,688 Meters Below Sea Level**" focusing on Ocean Floor research in the "Haus der Wissenschaft" in Bremen (Germany). Exhibition was conceived and organized by MARUM

From September 3 – 8: **GEOBerlin**. Organised by the "Deutsche Geologische Gesellschaft – Geologische Vereinigung (DGGV)".

Next display:

Science Center in Faro (Portugal) for an exhibition related to IODP Exp 401 (23 Dec 2023 - Feb 2024)

Port Call JOIDES Resolution before Exp. 402, Naples Italy, for outreach event

EGU General Assembly 2024, Vienna

## **5E - Scientific Sessions: AGU Fall Meeting 2023 and EGU GA 2024**

With initiative taken by USSSP, a session has been proposed and accepted as poster-only session at AGU Fall Meeting 2023 in San Francisco:

**Session ID:** 190422

**Session Title:** IN037. Novel Approaches in the Use of Scientific Ocean Drilling Data

**Section:** Informatics

**Co-conveners:** Rebecca S. Robinson, Elisabetta Erba, Harue Masuda, Nisha Nair, Ron Hackney, Shouting Tuo

14 Abstracts received

The traditional ECORD-ICDP scientific session 'Achievements and perspectives in scientific ocean and continental drilling' at EGU General Assembly has been re-proposed for 2024 as an Inter- and Transdisciplinary Sessions:

**Suggested session**

**[Achievements and perspectives in scientific ocean and continental drilling](#)** ▶

Conveners: Angelo Camerlenghi [Q](#), Thomas Wiersberg [Q](#), Cindy Kunkel [Q](#), Jorijntje Henderiks [Q](#), Norikatsu Akizawa [Q](#)

Scientific leader [SSP](#)

The session description has been modified by adding at the end a reference to scientific drilling legacy data:

Furthermore, we encourage contributions that outline perspectives and visions for future drilling projects, in particular projects using a multi-platform approach, and present research originated from the use of scientific drilling legacy data.

## 5F - Taira Prize

All ESSAC delegates and alternates are reminded of the importance to nominate ECORD candidates to the Taira Prize. The 2024 nomination cycle will open in January.

<https://www.agu.org/Honor-and-Recognize/Honors/Union-Prizes/Taira-Prize>

## 6 - DLP selection of speakers and host institutions

9 applications have been received in response to the Call published in July 2023 with deadline September 1<sup>st</sup> 2023.

Sietske J. Batenburg	F	ESP	University of Barcelona	Paleoclimate/Stratigraphy	Oceanography and orbital forcing in past greenhouse climates – insights from ocean sediments
Thomas M. Belgrano	M	IRE	University College Dublin	Ocean lithosphere	ICP–MS(/MS) approaches to establishing timescales, timestamps, and age models in scientific drill cores
Rosalind M. Coggon	F	UK	University of Southampton	Hydrothermal circulation and the formation of the ocean crust	The IODP South Atlantic Transect: Low-temperature Ridge Flank Contributions to Global Biogeochemical Cycles and Archives of Changing Global Conditions
Laura De Santis	F	ITA	National Institute of Oceanography and Applied Geophysics – OGS	Paleoclimatology	Ice sheet and ocean interaction, paleoclimate and paleoceanographic record during past glacial and interglacials
Jenny A. Gales	F	UK	Plymouth University	Continental slope sedimentology	Deciphering Antarctic continental slope processes: new insights through ocean drilling
Cédric Michael John	M	UK	Imperial College London	Machine learning and artificial intelligence to marine sediments	The Digital Past as Key to Our Future: How Artificial Intelligence Applied to IODP Digital Assets can Improve Paleoclimate Reconstructions
Sverre Planke	M	NOR	Volcanic Basin Energy Research AS	Volcanic rifted margins and volcanic basins	Large igneous provinces and global climate implications
Benjamin M. Tutolo	M	CND /UK	University of Calgary Department of Geoscience	Geochemistry/Serpentinization	Submarine basalt carbonation as a gigaton-per-year-scale climate change solution” and “Reactive transport processes and hydrothermal fluxes during oceanic serpentinization”
Thomas Westerhold	M	GER	MARUM, Bremen	Paleoclimatology/Stratigraphy	The starring role of Scientific Ocean Drilling to discover the changing states of Earth’s Climate during the past 66 million years

A discussion is initiated on how to define the invited lecturers, typically 4 reflecting the 4 Science Theme of the 20213-23 Science Plan. The issues raised are whether to solicit specific lectures for the Biosphere Frontiers, missing from the received candidates, or to ask the candidates to submit an addendum in their

application when the motivation for providing the proposed lecture was missing (only Coggon and Westerhold did). The discussion included a proposed request for a video-recording of the motivation, that could allow the ESSAC delegate to evaluate the communication skills. However, in the end the opinion that prevailed, on which consensus has been reached was that to invite a number larger than 4, without soliciting a lecture on Biosphere Frontiers.

A list of 6 best applicants has been identified with the purpose to avoid duplication in lecture topics:

- Rosalind M. Coggon – Earth Connections (best application)
- Laura De Santis - Climate and Ocean Change
- Jenny A. Gales - Climate and Ocean Change/Earth in motion
- Cédric Michael John - Climate and Ocean Change
- Sverre Planke - Earth Connections
- Thomas Westerhold – Climate and Ocean Change (best application)

Action #3 – ESSAC Office to communicate the invited lecturers and prepare the call for hosting the lectures in 2024
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#### **AOB and Date and place of Next Meeting**

No additional items needed

The ESSAC Spring Meeting 2024 (#21) will be hosted in Helsinki by Joonas Virtasolo. The proposed week is 27-31 May 2024. However, a Doodle with alternative dates will be circulated shortly after the meeting by the ESSAC Office.

Action #4 – ESSAC Office to circulate a Doodle to set the date of the ESSAC Spring 2024 Meeting in Helsinki
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The meeting ends at 17:30 on October 2, 2023