

# ECORD

## News & Budget

**Gilbert CAMOIN**

*Director of the ECORD Managing Agency*

*INSU-CNRS, CEREGE, Aix-en-Provence, France*

*[camoin@cerege.fr](mailto:camoin@cerege.fr)*

Exec ECORD Council members :

M. Webb

G. Lüniger

E. Humler (< 07/16)

A. Kjaër

**ECORD Council (**  
*Funding agencies )*

Chair : M. Friberg (> 12/16)

Vice-Chair : M. Diament (> 06/16)

M. Webb (> 12/16)

**EMA**  
( *Managing Agency* )

Chair : G. Lericolais

Vice-Chair : D. Weis

S. Gallagher

F. Inagaki

**ECORD FB**  
( *MSP scheduling committee* )

**ESO**  
( *Implementing Organisation* )

**Education /  
Outreach  
Task Force**

**MagellanPlus  
Workshop Series  
(ECORD – ICDP)**

Chair : L. Lourens

**ESSAC**  
( *Scientific Committee* )

Chair : J. Behrmann

Vice-Chair : G. Früh-Green

**Vision  
Task Force**

**ECORD ILP**  
( *Industry Liaison* )



**Ad Hoc committee**

# ECORD FY16 Budget

| FY16 contributions |        | (\$US)            |
|--------------------|--------|-------------------|
| Germany            | > FY18 | 5,600,000         |
| France *           | >FY18  | 4,300,000         |
| UK *               | >FY18  | 3,680,000         |
| Norway             | >FY18  | 1,100,000         |
| Switzerland        | >FY16  | 600,000           |
| Sweden             | >FY18  | 528,000           |
| Netherlands        | >FY18  | 500,000           |
| Italy              | > FY18 | 400,000           |
| Spain              | TBD    | 169,000           |
| Denmark *          | > FY16 | 150,000           |
| Ireland *          | >FY18  | 113,000           |
| Austria            | > FY18 | 100,000           |
| Portugal           | >FY18  | 90,000            |
| Finland            | > FY18 | 80,000            |
| Canada             | > FY16 | 30,000            |
| Israel             | > FY16 | 30,000            |
| Poland             | >FY18  | 30,000            |
| Belgium *          | > FY16 | NC                |
| <b>TOTAL</b>       |        | <b>17,500,000</b> |

|                                                                                                                       | FY16 Income (US\$) | FY16 Expenses (US\$) |
|-----------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|
| FY 15 balance                                                                                                         | 12,406,000         |                      |
| FY 16 contributions                                                                                                   | 17,500,000 *       |                      |
|                                                                                                                       |                    |                      |
| ECORD-NSF MoU                                                                                                         |                    | 7,000,000            |
| ECORD-JAMSTEC MoU                                                                                                     |                    | 0 **                 |
| ESO                                                                                                                   |                    | 10,750,000 ***       |
| EMA                                                                                                                   |                    | 258,090              |
| MagellanPlus                                                                                                          |                    | 78,400               |
| ECORD Outreach                                                                                                        |                    | 61,000               |
| ECORD websites                                                                                                        |                    | 33,600               |
| ESSAC                                                                                                                 |                    | 287,130              |
| BCR                                                                                                                   |                    | 332,174              |
|                                                                                                                       |                    |                      |
| <b>TOTAL</b>                                                                                                          | <b>29,906,000</b>  | <b>18,800,394</b>    |
|                                                                                                                       |                    |                      |
| FY 16 balance                                                                                                         | 11,105,606         |                      |
| <p>* Exchange rates : 1€=1.12\$</p> <p>** Membership suspended in FY15 and 16</p> <p>*** Including Exp. 364 costs</p> |                    |                      |

> Potential additional contributions (cash, ILCs) not considered

FY16 contributions

(\$US)

|             |        |            |
|-------------|--------|------------|
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| Denmark *   | > FY16 | 150,000    |
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| Canada      | > FY16 | 30,000     |
| Israel      | > FY16 | 30,000     |
| Poland      | >FY18  | 30,000     |
| Belgium *   | > FY16 | NC         |
| TOTAL       |        | 17,500,000 |

\* Subjected to exchange rate fluctuations

> Annual contributions : \$ 30,000 to \$ 5,600,000

> 3 major contributors : ~ 80 % of the ECORD budget

~ 80% of the ECORD budget  
for expeditions

JR funding (US\$ 7M/yr)

Chikyu funding (US\$ 1M/yr)

MSP funding (US\$ 7-8M/yr)

(50% increase compared  
to IODP-1)



> Additional project-based cash and in-kind contributions



# 5 yrs ECORD MSP Operational Plan

| 2014                                    | 2015                                                                                                                | 2016                                                            | 2017 / 2018                                                      | 2018                                                                   |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>OSP -<br/>347<br/>Baltic<br/>Sea</b> | <b>357-Atlantis Massif</b><br><br>Seabed drills<br>(MeBo & RD-II)<br><br>IKC<br>(in-kind<br>contribution)<br><br>LC | <b>364-Chicxulub</b><br><br>Lift boat<br>(L/B Myrtle)<br><br>MC | <b>[813 ]-Antarctic</b><br><br>Seabed drill<br>(RD-II)<br><br>MC | <b>[708]-Arctic</b><br><br>Drillship<br><br>IKC + co-funding<br><br>HC |
| Reviewed<br>Nov. 2014                   | To be reviewed<br>Oct. 2016                                                                                         | Ended on<br>May 28th, 2016                                      |                                                                  |                                                                        |

**LC** = low-cost (<\$8M) **MC** = mid-cost (\$8-15M) **HC** = high-cost (>\$15M)

✓

*Diversity of science themes*

✓

*Operational and funding flexibility*

# ECORD Budget FY17 and FY18

|                        | FY 17 (US\$) | FY 18 (US\$)                                       |
|------------------------|--------------|----------------------------------------------------|
| <b>Total income</b>    | 28,600,000   | 35,100,000                                         |
| <b>Fixed costs</b>     | 11,000,000   | 11,000,000                                         |
| <b>MSP expeditions</b> | -            | 9,000,000<br>(Antarctic)<br>15,000,000<br>(Arctic) |
| <b>Balance</b>         | 17,600,000   | 100,000                                            |

> Potential additional contributions (cash, IKCs) not considered

> Potential newcomers :

Negotiations : **Turkey**

Discussions : **Russia**

> Need for an external review before renewal

|             |        |
|-------------|--------|
| Germany     | > FY18 |
| France      | >FY18  |
| UK          | >FY18  |
| Norway      | >FY18  |
| Switzerland | >FY16  |
| Sweden      | >FY18  |
| Netherlands | >FY18  |
| Italy       | > FY18 |
| Spain       | TBD    |
| Denmark     | > FY16 |
| Ireland     | >FY18  |
| Austria     | > FY18 |
| Portugal    | >FY18  |
| Finland     | > FY18 |
| ● Canada    | > FY16 |
| ● Israel    | > FY16 |
| Poland      | >FY18  |
| ● Belgium   | > FY16 |
|             |        |



## Timeline

- Jan 2017 : ECORD Evaluation Committee (EEC) appointed
- May 2017 : 2-3 days general meeting @ MARUM  
(EEC + ECORD representatives)
- June 2017 : Final report sent to EMA





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## Mandate

- ✓ Review of achievements of ECORD within IODP
- ✓ Review of the impact of MSPs in particular
- ✓ Review of the effectiveness/efficiency of ECORD entities



## Timeline

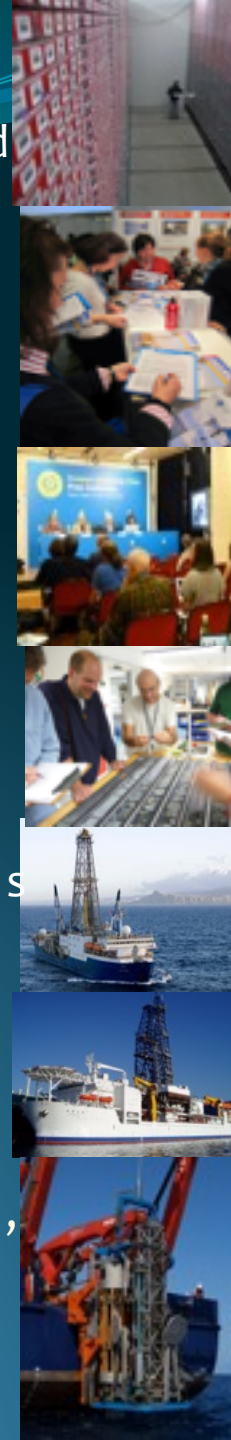
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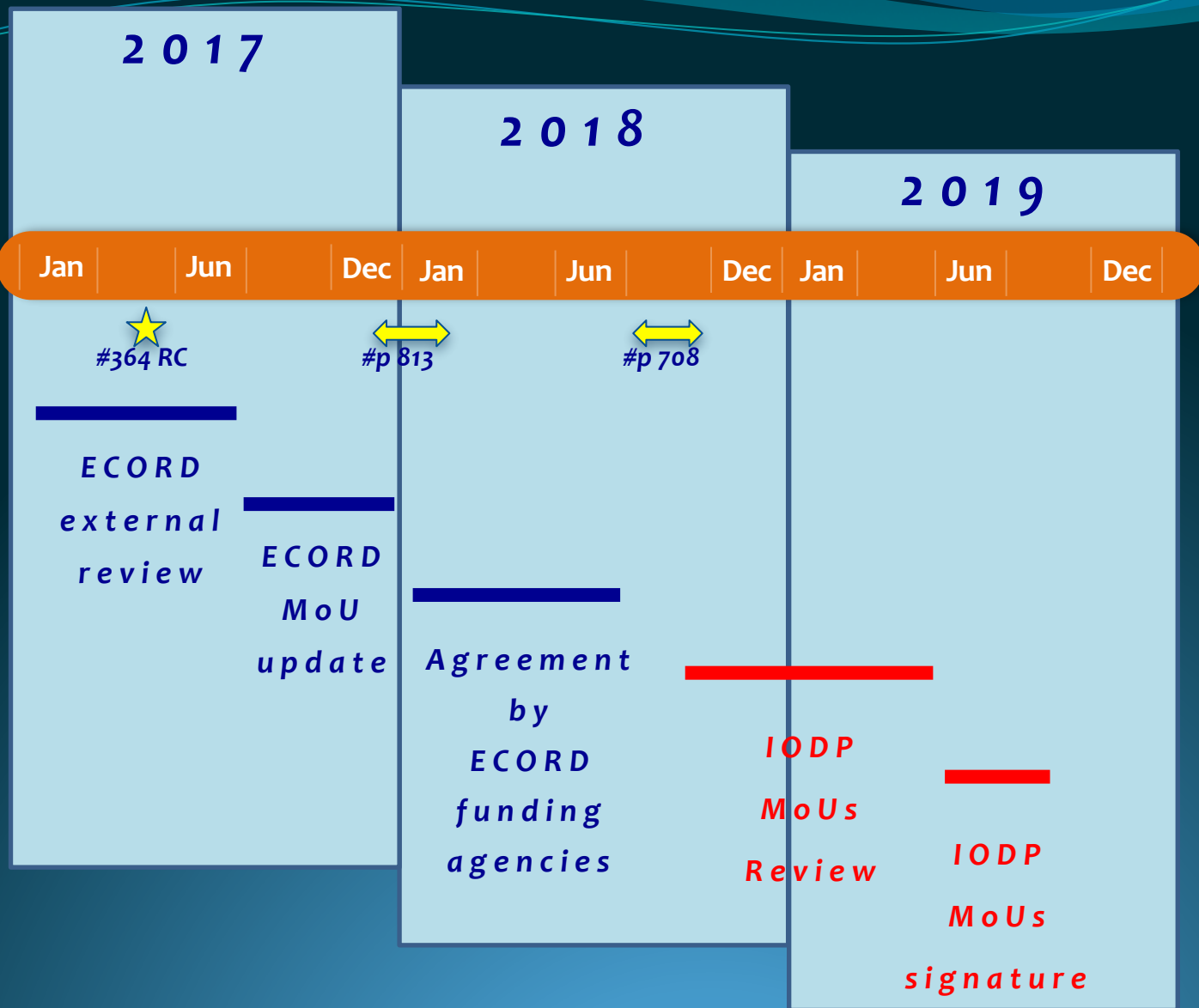
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## EEC membership

6 to 10 members : High standing scientists, specialists of subseafloor investigations (technology), managers/representatives of other international science programmes





## Sea Floor Drills deployed from conventional R/V

**MARUM – Bremen, Germany**

**British Geological Survey – Edinburgh, UK**

MeBo-1 (75 m) MeBo-2 (200 m)



50m rockdrill



oriented drill



©Ifremer 2010



**Long Piston coring**

**IPEV – Brest, France**  
**IFREMER – Brest, France**

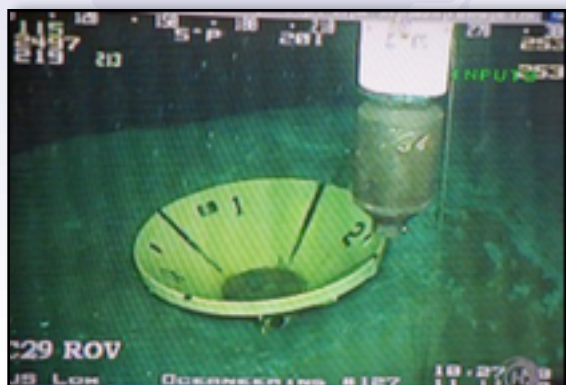
(35 to 50 m)

**Distributed European Drilling Infrastructure (DEDI - 2)**



## Borehole observatories

P, T, fluid flows, sismicity,  
geochemistry, microbiology



Genius plus, MARUM

## In situ pressure sampling

Gas hydrates, Deep biosphere



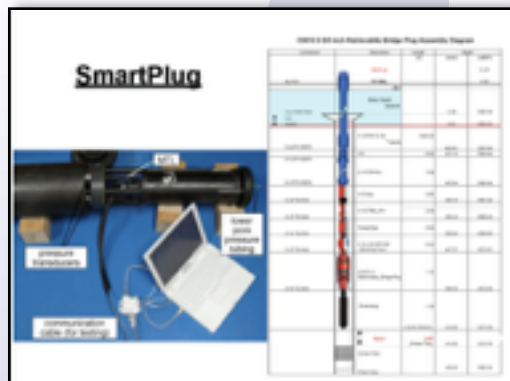
HYACE rotary corer  
(TU Berlin, TU Clausthal,  
Univ. Cardiff,  
Fugro, Geotek)

## High temperatures tools

Hydrothermal systems  
ISOR (Iceland GeoSurvey)



300°C natural gamma ray



Necessary coordination with EMSO



DeepIsoBUG  
Isolation Chamber  
Univ. Cardiff



300° borehole televiewer

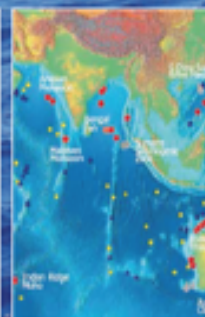
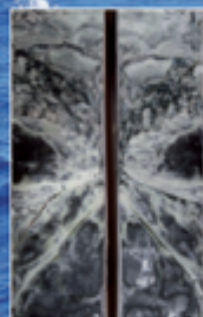






EUROPEAN CONSORTIUM FOR  
OCEAN RESEARCH DRILLING

## ANNUAL REPORT 2015



## ECORD Annual Report 2015

1 January 2015 - 31 December 2015

### Contents

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| Contributors                                                                                                                                                          | 64 |
| List of acronyms                                                                                                                                                      | 65 |



For more information, visit our **NEW** website

ECORD outreach



... In September/ October 2016

# ECORD Council-ESSAC #4, Bremen, Germany

Host : U. Röhl



Oct. 24 (aft.) - 25 : Exp #357 review

Oct. 25 (aft.) : ESSAC meeting

Oct. 26 - 27 : Council-ESSAC meeting









## IODP Symposium at IGC 2016

Dear IODP Supporters,

Contributions are encouraged for the IODP symposium entitled "**Achievements and Perspectives in Scientific Ocean Drilling**" at the 35<sup>th</sup> International Geological Congress in Cape Town, South Africa from August 27<sup>th</sup> to September 4<sup>th</sup>, 2016. This symposium appears under '**Marine Geosciences and Oceanography**' theme - <http://www.35igc.org/Themes/29/Marine-Geosciences-and-Oceanography>.

### ACHIEVEMENTS AND PERSPECTIVES IN SCIENTIFIC OCEAN DRILLING

#### Conveners:

Gilbert CAMOIN, CEREGE, Aix-en-Provence, France - [gcamoin@cerege.fr](mailto:gcamoin@cerege.fr)

James AUSTIN, UTIG, Austin, USA - [jamie@utig.ig.utexas.edu](mailto:jamie@utig.ig.utexas.edu)

Keir BECKER, RSMAS, Miami, USA - [kbecker@rsmas.miami.edu](mailto:kbecker@rsmas.miami.edu)

Yoshi TATSUMI, Kobe University, Japan - [tatsumi@diamond.kobe-u.ac.jp](mailto:tatsumi@diamond.kobe-u.ac.jp)

The International Ocean Discovery Program (IODP) provides 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 drilling projects. Furthermore, we encourage contributions that outline perspectives and visions for future drilling projects, in particular projects using a multi-platform approach.

| Proposal #    | Short title                               | Lead Proponent | Ocean / Sea    | Drill Platform               |
|---------------|-------------------------------------------|----------------|----------------|------------------------------|
| <b>at EFB</b> |                                           |                |                |                              |
| 548 - Full3   | Chicxulub K-T Impact Crater               | Morgan         | Atlantic       | Lift boat                    |
| 581 - Full2   | Late Pleistocene Coralgal Banks           | Droxler        | Atlantic       | Geotech rig / Seafloor drill |
| 637 - Full2   | New England Shelf Hydrogeology            | Person         | Atlantic       | Lift boat / Jack-up rig      |
| 708 - Full    | Central Arctic Paleoceanography           | Stein          | Arctic         | Drillship                    |
| 716 - Full2   | Hawaiian Drowned Reefs                    | Webster        | Pacific        | Geotech rig / Seafloor drill |
| 730 - Full2   | Sabine Bank Sea Level                     | Taylor         | Pacific        | Geotech rig / Seafloor drill |
| 813 - Full    | Antarctic Cenozoic Paleoclimate           | Williams       | Southern Ocean | Seafloor drill               |
| <b>at SEP</b> |                                           |                |                |                              |
| 680 - Full    | Bering Strait Climate Change              | Fowell         | Pacific        | Drillship                    |
| 756 - Pre     | Arctic Ocean Exit Gateway                 | Jakobsson      | Arctic         | Drillship                    |
| 796 - ADP     | NADIR: Nice Amphibious Drilling           | Kopf           | Mediterranean  | Geotech rig / Seafloor drill |
| 797 - Pre     | Alaska Beaufort Margin                    | Ruppel         | Arctic         | Drill rig                    |
| 806 -Pre      | Beaufort Gas Hydrate                      | Paull          | Arctic         | Geotech rig                  |
| 812 - Pre     | Ross Sea Glacial History                  | Wilson         | Southern Ocean | Seafloor drill               |
| 852 - CPP2    | North Sea GlaciStore                      | Stewart        | Atlantic       | Drill rig                    |
| 863 - MDP     | ISOLAT Southern Ocean Paleoclimate        | Peterson       | Southern Ocean | Long piston coring           |
| 863A - Pre    | ISOLAT: Indian Antarctic Paleoceanography | Crosta         | Southern Ocean | Long piston coring           |
| 866 - Pre     | Japan Trench Paleoseismology              | Strasser       | Pacific        | Long piston coring           |
| 879 -Full     | Corinth Active Rift Development           | McNeill        | Mediterranean  | Drillship                    |
| 896 - Pre     | North Atlantic Fjord Sediment Archives    | Giraudeau      | Atlantic       | Long piston coring           |



**BE CHECKED**

Chikyu : 14

JOIDES Resolution : 69

19 MSP  
proposals



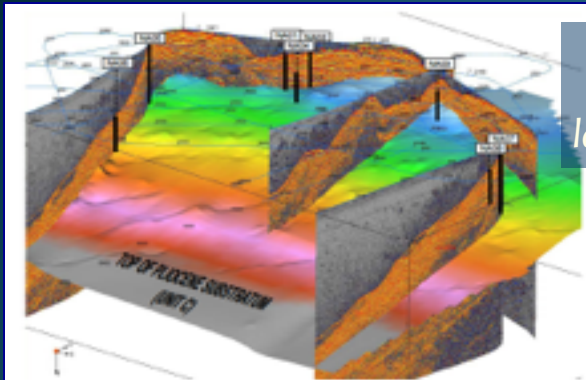
# Amphibious Drilling Proposals (ADPs)<sup>c</sup>

are those for which full achievement of the scientific objectives requires scientific drilling at both onshore and offshore sites



**NEW**

- Guidelines and joint evaluation procedures approved by IODP and ICDP entities
- Implementation plans to be approved by IODP and ICDP entities



MSP &  
land drilling

JR &  
land drilling



ADP-796 Full –

Nice Amphibious Drilling (A. Kopf et al.)

Haiti-DRILL MagellanPlus workshop

Oct. 2015 (N. Ellouz & M. Pubellier)