

ICDP Developments

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SCOPE AND MEMBERS

- ICDP is an international program to support multinational research teams with a need for continental scientific drilling
- ICDP support is based on proposals. Scientists from ICDP member countries are invited to submit proposals to request financial and operational support for drilling and monitoring

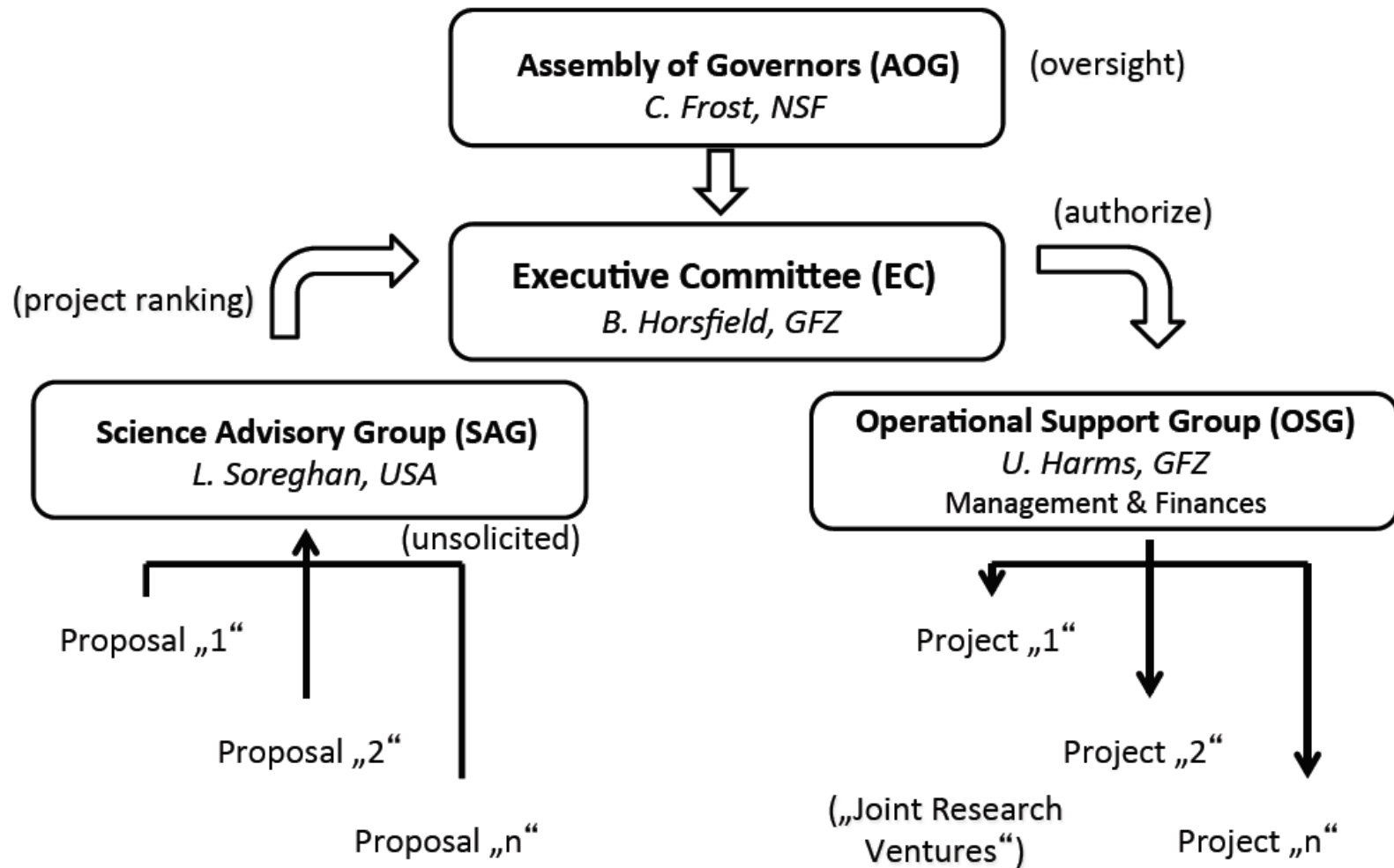
ICDP Members

- Austria
- Belgium (Flanders)
- Canada
- China
- Czech Republic
- Finland
- France
- Germany
- Iceland
- India
- Italy
- Israel
- Japan
- New Zealand
- Norway
- Poland
- South Africa
- South Korea
- Spain
- Sweden
- Switzerland
- The Netherlands
- UNESCO
- United Kingdom
- USA

FUNDAMENTAL DIFFERENCES

- The ICDP support is based on the “comingled funding” principle
- Each ICDP drilling project is independently organized in the form of a Joint Research Venture (JRV)
- Drilling on land provides a much greater diversity of targets and drilling depths
- This in turn require application of a much broader spectrum of drilling techniques

ORGANIZATION

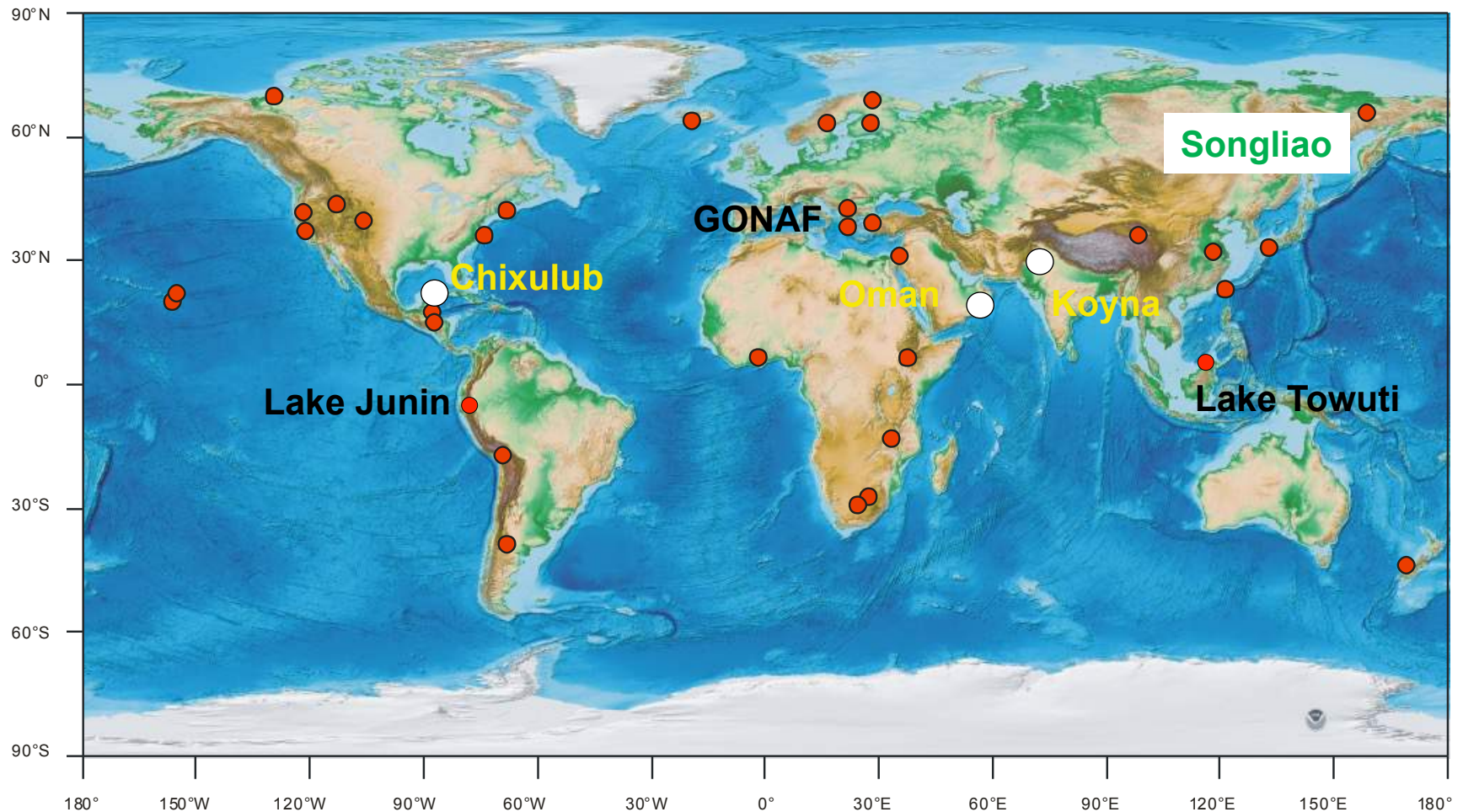


PROJECT PROGRESS

	1. Year	2. Year	3. Year	4. Year	5. Year	
TOWUTI	2011 WS Proposal	2012 WS	2013 Full P	2013 Add P	2014 Preparation/Funding	2015 Drilling
IDRAs	2010 WS Proposal	2011 WS	2012 Full P	2012 Add P	2013 Funding/Preparation	2014 Drilling
Junin	2010 WS Proposal	2011 WS	2012 Full P	2012 Add P	2013 Funding/Preparation	
COSC	2009 WS Proposal	2009 WS				2012 Full P
DFDP	2008 WS Proposal	2009 WS			2011 Full P	2011 Add P
HSPDP	2007 WS Proposal	2008 WS		2010 FP		2011 Full P
CPCP	2008 WS Proposal	2009 WS	2010 Full P	2010 Funding/Preparation		
COREF	2006 WS Proposal	2007 WS		2009 FP	2010 FP	
GONAF	2006 WS Proposal	2007 WS		2009 FP	2010 FP	2010 Add
Ohrid	2007 WS Proposal	2008 WS	2008 WS	2009 Full P	2009 Preparation/Funding	
Songliao	2007 WS Pro	2007 WS	2008 Full P	2009 Add	2009 Preparation/Funding	

ICDP Projects

Recently completed, **Running**, and **Upcoming**

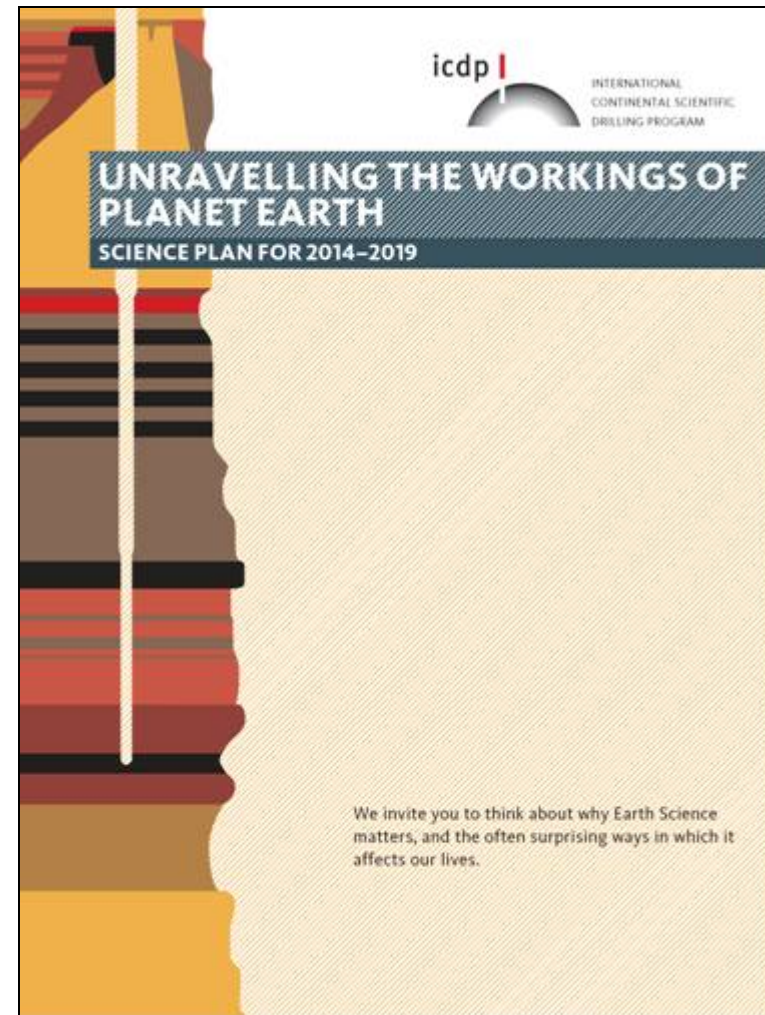


To date: 78 workshops sponsored and 35 drilling projects completed

ICDP SCIENCE PLAN 2014-2019

White Paper was published in December 2014

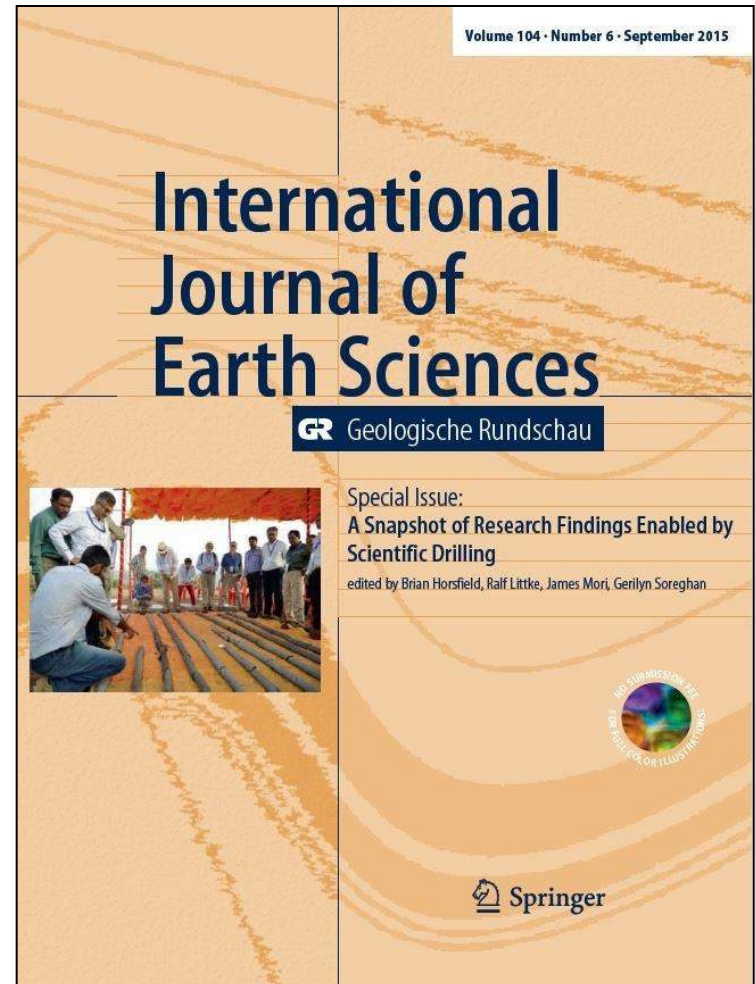
- Strengthens and expands ties between member countries and partner programs (IODP, ANDRILL),
- Invites and integrates early career researchers in upcoming ICDP activities,
- Debates incorporation of industry partners into selected ICDP strategic activities for a science-driven mutual benefit,
- Discusses new outreach measures to media, policy makers and the interested public.



A Snapshot of Research Findings Enabled by Scientific Drilling

A Special Issue with 14 papers on research findings enabled by scientific drilling was published September 2015 in:

International Journal of Earth Sciences, Volume 104, Issue 6.



SCIENTIFIC DRILLING, the IODP-ICDP Program Journal

SD 19 was published in May 2015, including one Science Report (COSC), five Workshop Reports and one Technical Development Report

SD 20

- Seven manuscripts received so far: Two Science Reports: Exp. 347, Fucino Basin/ Italy; one Progress Report, four Workshop Reports
- Publication Schedule: November 15 (online), December 1 (printed copies to be shipped to AGU)
- Changing in the Editorial Board (01.01.2016)
Gilbert Camoin → Jan Behrmann
James Natland → Will Sager



Flyer “Scientific Drilling in Oceans and on Continents”



The Need for Scientific Drilling

ECORD/IODP and ICDP

Two major programs,
a common purpose

Scientific Drilling in Oceans and on Continents



As the global population continues to increase there is a corresponding increase in the threat to life and property posed by natural disasters such as earthquakes and volcanic activity, as well as the consequences of climate and environmental change.

Despite surface studies, laboratory and theoretical work that aimed at understanding the Earth, it is impossible to comprehend the myriad of natural and anthropogenic processes that shape our dynamic Earth without sampling and monitoring at depth.



Two major international scientific drilling programs, the International Ocean Discovery Program (IODP) with its European part ECORD (European Consortium for Ocean Research Drilling) and the International Continental Scientific Drilling Program (ICDP) have brought major advances to understand the deep Earth.

IODP & ICDP Members (ECORD in blue)

Austria	France	Portugal*
Australia*	Germany	New Zealand
Belgium	Iceland	South Korea
Brazil*	India	Sweden
Canada	Israel	Switzerland
China	Italy	The Netherlands
Czech Republic**	Japan	United Kingdom
Denmark*	Norway	UNESCO**
Finland	Poland	USA

*IODP Member only, **ICDP Member only

www.ecord.org

www.iodp.org

www.icdp-online.org

Follow @ECORD_Outreach and @icdpDrilling

Find us at ESO outreach and ESSAC ECORD

Flyer “Scientific Drilling in Oceans and on Continents”

Amphibious Projects

Call for joint proposals

IODP and ICDP aim to foster joint cooperation projects by inviting scientists to submit proposals in which drilling both on land and at sea is prerequisite (“Amphibious Projects”). A joint evaluating committee has been instigated for reviewing such proposals and thereafter submitting a single decision-leading recommendation to the executive committees of the two organizations. This call is open to investigators from ICDP- and IODP-member countries.



For more information contact

u.harms@icdp-online.org (ICDP) or
ema@cerege.fr (IODP)

MagellanPlus

The ECORD/ICDP workshop initiative

The ECORD/ICDP MagellanPlus Workshop initiative is designed to support scientists from ECORD and ICDP member countries in developing new and innovative science proposals for submission to IODP and ICDP, through the integration of continental and marine drilling and coring to meet future challenges in Earth, life and environmental sciences.



www.ecord.org/magellanplus.html

Scientific Drilling

The ICDP-IODP open access program journal

Scientific Drilling is a multidisciplinary journal focused on bringing the latest science and news from the scientific drilling and related programs to the geosciences community. *Scientific Drilling* delivers peer-reviewed science reports from recently completed and ongoing international scientific drilling projects. The journal also includes reports on Engineering Developments, Technical Developments, Workshops, Progress Reports, and News and Views to the community.



www.scientific-drilling.net/

EGU 2015: Scientific Drilling Session

“Achievements and perspectives in scientific ocean and continental drilling” (IODP/ECORD – ICDP)“ received 27 contributions (19 IODP & 8 ICDP papers)




"Understanding the Baltic Sea System: from microbial processes to system scale dynamics and climate development" received 14 papers (16 are needed for a session with one oral block) → sessions were combined → 41 papers in total



ICDP – ECORD Booth

- DMT Core Scanner
- Corewall assembly (three screens on column)
- Videos (including 3D-Video „A Human Origin“)

EGU 2015: Town Hall Meeting

11th Joint IODP-ICDP Townhall Meeting

Wednesday, April 15, 19h00-20h00, Room B10
European Geosciences Union General Assembly 2015

The International Ocean Discovery Program and the International Continental Scientific Drilling Program are major programmes supporting scientific drilling projects.

ICDP and IODP scientists and programme representatives will provide brief updates on recent achievements and new projects addressing key scientific questions on climate, sea-level and environmental changes, geohazards, natural resources, the structure and evolution of the lithosphere and the deep biosphere.

All EGU participants with an interest in scientific drilling are cordially invited to the reception and discussion.

www.icdp-online.org www.ecord.org

IODP-ICDP Town Hall Meeting at EGU (Tuesday, April 14, 7-8 pm)

Schedule

6:45 – 7 pm Video „A Human Climate“

Gilbert Camoin **News from ECORD/IODP**

Brian Horsfield **News from ICDP**

Christian France-Lanord **Bengal Fan expedition**

Katja Klindhorst **Lake Ohrid (SCOPSCO)**

Gretchen Früh-Green **Atlantis Massif expedition**

Harsh Gupta **Koyna Drilling Project**

Christian Koeberl **Chicxulub expedition**

2015 International Limnogeology Congress

June 15-19, 2015 in Reno/Lake Tahoe, Nevada



60-70 attendees

Key notes on ICDP
lake drilling
projects

3D-Video „A
Human Origin“

EGU 2016: Union Symposium

“Geofluids – the Bringers of Change”, 15-22 April 2016

Proposed by ICDP, co-sponsored by six EGU Divisions and the Deep Carbon Observatory. Conveners: Brian Horsfield (ICDP), Chris Juhlin (EGU) and Craig Shiffries (DCO). Six solicited speakers of 30 minutes each

- Water as agent in natural earthquake initiation
- Deep fracture fluids isolated in crust
- Activated degradation of organic matter in the deep biosphere
- Supercritical water for geothermal energy
- Metal-transporting hydrothermal fluids
- Sustainable energy and mineral resources
- Deep fluids and deep life
- CO₂ storage and hydrofracking

35th International Geological Congress

27 August – 4 September 2016, Cape Town, South Africa



Booth booking is confirmed

Session „Scientific Drilling on Continents and Oceans“ is confirmed

Conveners:

- Baochang Liu
- Thomas Wiersberg
- Gilbert Camoin
- Pavel Talalay

AGU 2015 Fall Meeting

14-18 December 2015, San Francisco, USA



Plan is to hold a Town Hall Meeting outside the regular Program. Brian Horsfield (ICDP EC Chair) to organize/attend

ICDP Training 2015



ICDP Training Course „Scientific Drilling of lacustrine sediments“ was held September 14-16, 2015, at Lake Ohrid (Macedonia) with 21 participants (including Claire L. Mellett from ESO) from 11 countries

Next Training Course: October 19-21, 2015, at the KTB Geocenter in Windischeschenbach (Germany): Managing and execution of continental scientific drilling projects

