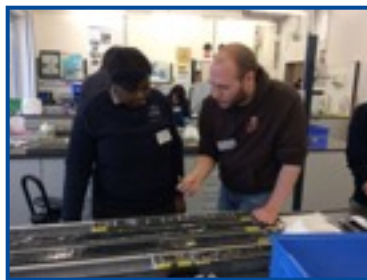


# Update on Curation Activities



Ursula Röhl

ESO Curation and Lab Manager

IODP Bremen Core Repository (BCR)

MARUM, University of Bremen, Germany

[uroehl@marum.de](mailto:uroehl@marum.de)

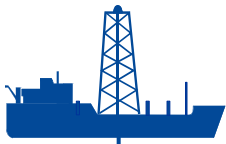
# Bremen Core Repository (BCR)

- 6,203 total sample requests from cores now stored at BCR (DSDP/ODP/IODP; since 1969)
  - 1,574,910 total samples taken from BCR cores (since 1969)
  - Involving 3,221 individual scientists (since 1994)
- 
- 154 km of cores (IODP, ODP, DSDP)
  - Atlantic Ocean, Arctic Ocean, Mediterranean Sea, Black Sea, Baltic Sea

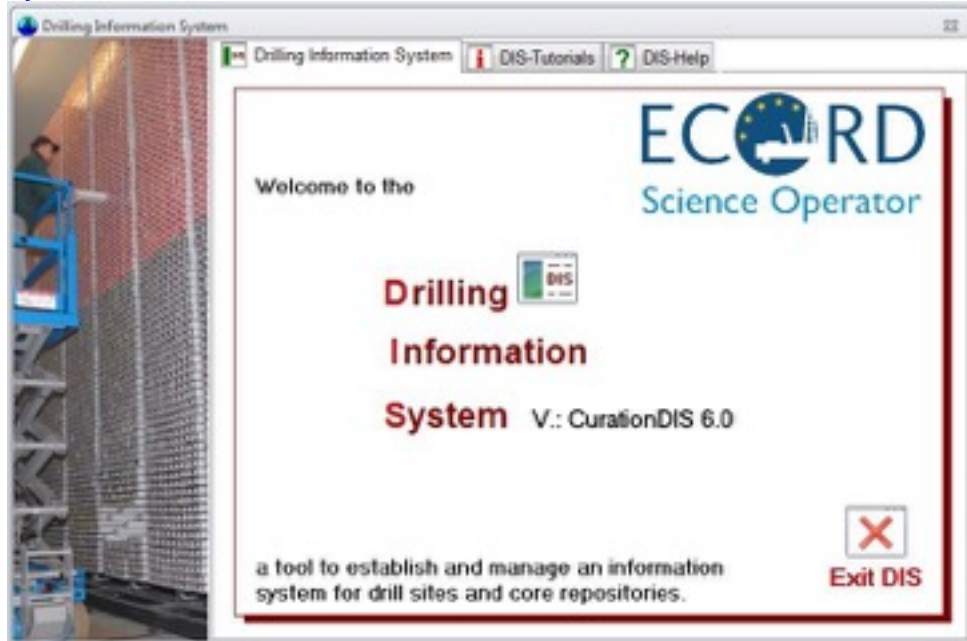
# Major achievements since Mar 2015

Curation and Sampling  
Data Management  
MSP Expeditions: offshore & onshore  
Education & Outreach  
Supporting other parts of IODP



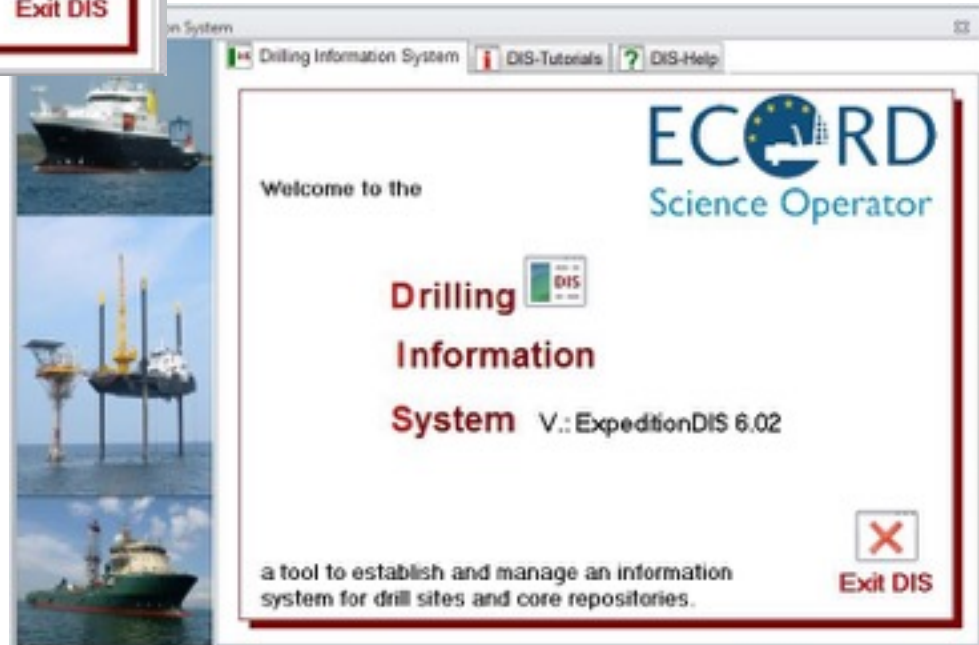


# New versions Drilling Information System (DIS)



Repository Database  
„CurationDIS“

Expedition Database  
„ExpeditionDIS“





# New Link between the sample request form - pdf of completed requests

DIS: data input form for requests and scientists of expedition v: 6.0

REQUEST SCIENTIST

Expedition: 207 Add. Expeditions: 73

REQUEST - Input

Request: 23109 Request Part: A Request Type: Post-Mort Req. Code:

Request Date: 2014-04-24 Approval Date: 2014-04-28 Completion Date: 2014-05-13

1. Scientist: Norris, Richard 2. Scientist: Sibert, Elizabeth 3. Scientist:

Purpose: To further examine the generality of our Pacific results we were approved for a sample request for material from ODP 762, but due to the situation in the repository there, the samples cannot be taken until near the end of the year. Therefore, here we request samples to fill in an existing sample set we have from the middle and early Eocene from Leg 207, and to create a new Eocene/Oligocene sample set from DSDP 522 Our plan is to process both sets of samples with the aid of summer students so that we will be ready for the eventual arrival of the sample

Remarks:

REQUEST	PART	EXP.	REQ. DATE	APPR. DATE	COMPL. DATE	1. SCIENTIST	REMARKS
22888	A	207	2013-05-07	2013-05-15	2013-05-22	Bralower	
22926	A	207	2013-06-17	2013-06-20	2013-07-15	Jones	
22930	A	207	2013-06-21	2013-06-24	2013-07-22	Torres	Samples were sent in a cooler with blue ice to keep cool during transp
22936	A	207	2013-07-03	2013-07-04	2013-07-15	Haynes	
22998	A	11	2013-11-05	2013-11-05	2013-11-15	Pokorna	Dr. Pokorna visited the BCR on 15 Nov. 2013 with 10 students to examin
23003	A	207	2013-11-12	2013-11-14	2013-11-25	Wilson	
23013	A	73	2013-11-26	2013-11-27	2013-12-03	Coxall	H. Coxall and E. Arnold visited the BCR with 14 bachelors students on 2
23021	A	207	2013-12-09	2013-12-11	2014-01-07	Abramovich	The samples were sent to A. Turchyn at Cambridge.
23022	A	207	2013-12-10	2013-12-11	2014-01-07	Percival	Four archive sections were sampled.
23109	A	207	2014-04-24	2014-04-28	2014-05-13	Norris	

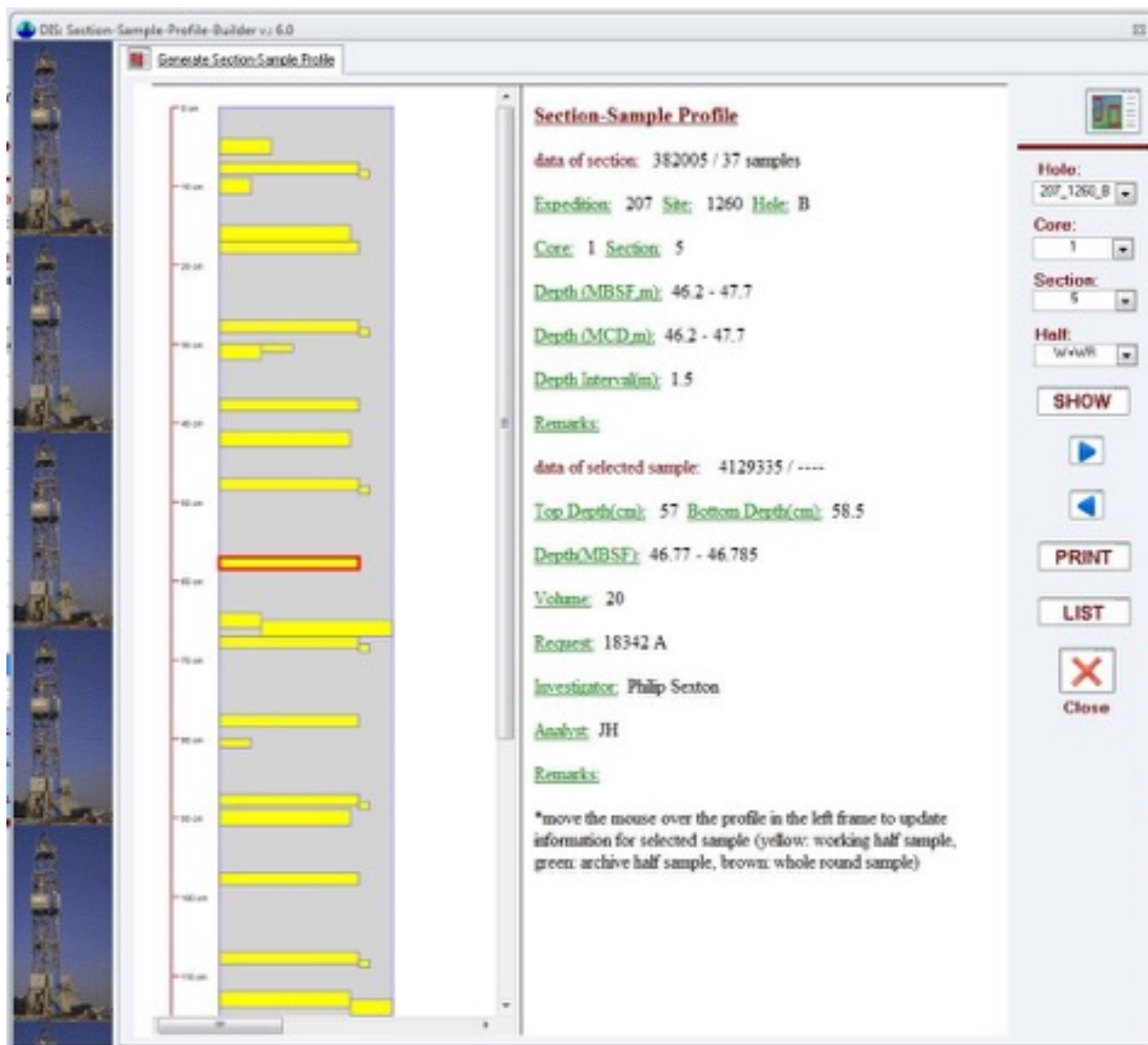
Data Record [F6] [F9] [F11] [F12] [Del] Form

No.: 215 Co.: 215

Show All Save New Edit Cancel Delete Lists Close



# Improved Section-Sample Profiles








# Redesign of the online data access pages to be more user-friendly

**BCR**  
Drilling Information  
System

- EXPEDITIONS
- SITES
- HOLES
- CORES/SECTIONS
- CORES
- SECTIONS
- SAMPLES
- SAMPLES BY EXPEDITION**
- SAMPLES BY REQUEST
- CORE PHOTOS
- PHOTOS
- TUTORIAL



**DIS View: SAMPLES BY EXPEDITION** Displays only data of expeditions not under moratorium! Select expedition 0 to search over all samples!

Select Exp.:  Site:  Hole:     
EXPEDITION

Select a Field:  Criterion:  Values:    Please, use the toolbar on the left to apply a filter to the displayed data. ...

Exp.	Site	Hole	Core	C-Type	Sec.	CC	Top Depth (cm)	Bot. Depth (cm)	Vol.	MBSF Top (m)	MCD Top (m)	Half	Curator	Repos.
347	59	A	1	H	1	no	0	1	0	0.00	0.21	W	JW	S&M
347	59	A	1	H	1	no	7	9	10	0.07	0.28	W	TB	S&M
347	59	A	1	H	1	no	13	10	8	0.19	0.31	WR	LS	SHI
347	59	A	1	H	1	no	15	17	20	0.15	0.36	W	MS	S&M
347	59	A	1	H	1	no	62	64	7	0.62	0.83	W	IM	S&M
347	59	A	1	H	1	no	75	77	20	0.75	0.96	W	MS	S&M
347	59	A	1	H	1	no	77	80.5	50	0.77	0.98	W	AW	S&M
347	59	A	1	H	1	no	100	101	0	1.00	1.21	W	JW	S&M
347	59	A	1	H	1	no	112	114	7	1.12	1.33	W	IM	S&M
347	59	A	1	H	1	no	120	121	10	1.20	1.41	W	AM	S&M
347	59	A	1	H	1	no	130	131.5	20	1.30	1.51	W	MS	S&M
347	59	A	1	H	1	no	131.5	133	15	1.32	1.52	W	TB	S&M
347	59	A	1	H	1	no	133	134	1	1.33	1.54	W	AB	S&M
347	59	A	1	H	1	no	133	134	1	1.33	1.54	W	AB	S&M
347	59	A	1	H	1	no	133	134	2	1.33	1.54	W	IM	S&M
347	59	A	1	H	1	no	135	136.5	20	1.35	1.56	W	MS	S&M
347	59	A	1	H	1	no	136.5	138.5	10	1.37	1.57	W	AB	S&M
347	59	A	1	H	1	no	137	139	8	1.37	1.58	W	WH	S&M
347	59	A	1	H	1	no	138.5	139.5	20	1.39	1.59	W	TB	S&M
347	59	A	1	H	1	no	140	141.5	20	1.40	1.61	W	MS	S&M
347	59	A	1	H	1	no	141	141	9	1.41	1.62	WR	LS	SHI
347	59	A	1	H	1	no	141.5	143.5	20	1.42	1.62	W	TB	S&M
347	59	A	1	H	1	no	145	146.5	20	1.45	1.66	W	MS	S&M
347	59	A	1	H	1	no	145	146.5	20	1.45	1.66	W	NX	S&M
347	59	A	1	H	1	no	146	151	5	1.46	1.67	WR	LS	SHI
347	59	A	1	H	1	no	146	151	5	1.46	1.67	WR	LS	SHI
347	59	A	1	H	1	no	147	149	30	1.47	1.68	W	AB	S&M
347	59	A	1	H	2	no	0	1.5	20	1.51	1.72	W	NX	S&M
347	59	A	1	H	2	no	3.5	5	10	1.55	1.75	W	AT	S&M
347	59	A	1	H	2	no	5	6.5	20	1.56	1.77	W	NX	S&M

Records: 2220 CurrentPage = 1 PageCount: 23



# BCR webpage



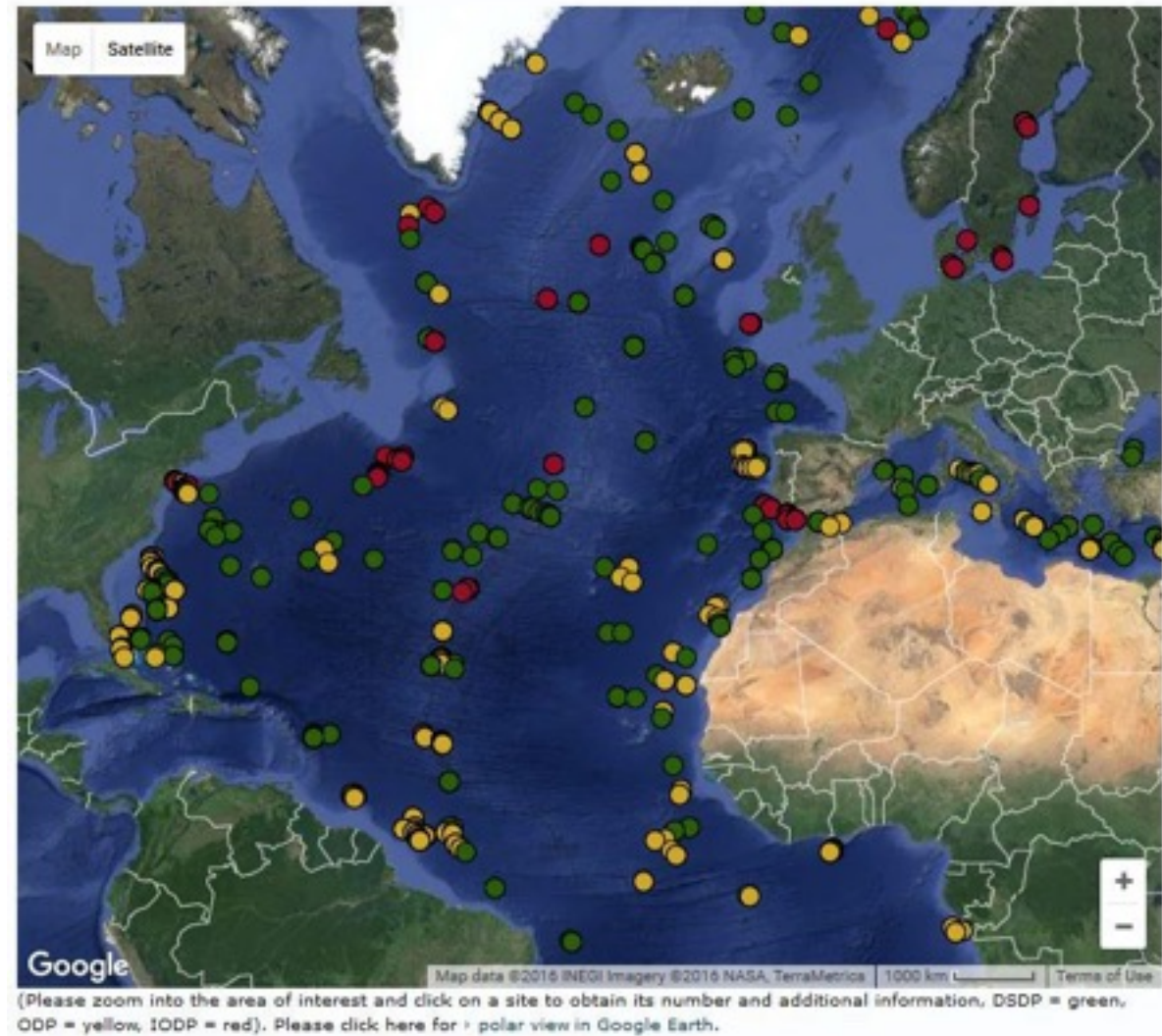
Center for Marine  
Environmental Sciences

[home](#)

## IODP at MARUM

- IODP Bremen Core Repository +
- Partner to the ECORD Science Operator +
- all IODP expeditions
- SEDIS
- German IODP Office
- ECORD
- IODP

Map of sites at BCR







# Online tutorials

<http://www.marum.de/en/IODP.html>

login | de



IODP at MARUM

## IODP at MARUM

## IODP (International Ocean Discovery Program) at MARUM

IODP Bremen Core  
Repository



Partner to the ECORD  
Science Operator



all IODP expeditions

SEDIS

German IODP Office

ECORD

IODP

Offshore core curation and  
measurements



Onshore Science Party  
(OSP)



Exp. 347 Sampling and Measurement  
Plan

ESO Team Bremen

### Science Operator (ESO)

Drilling vessel Vidar Viking (front) during  
IODP Exp. 302 (ACEX)

Core flow and procedures



Core inspection

Core splitting

Color reflectance

Digital imaging

Core photography

Visual Core Description

Corelyzer - CoreWall

Sampling of Cores

Micropaleontology

Microscopes

Physical Properties

Paleomagnetic measurements

Geochemistry

Mineralogy

X-ray CT scanner

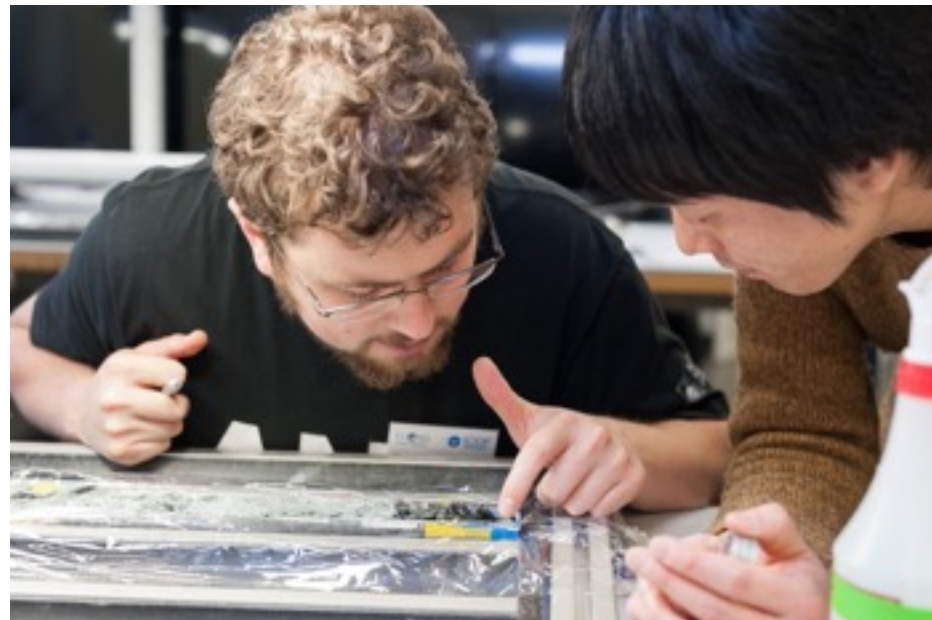
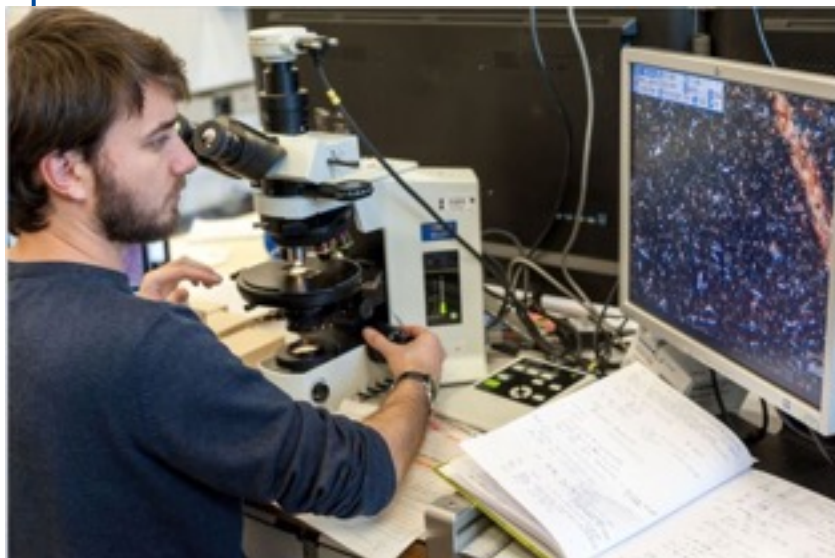
Data management

International scientific and research institutes have joined together under the International Ocean Discovery Program (IODP) to investigate the structure of the Earth below the sea floor. Different drilling vessels and platforms are used to access the ocean floor.

The MARUM at the University of Bremen is also internationally distinguished because it hosts major international events such as the community-wide important conference on the > future of ocean drilling. MARUM is also a > partner to the ECORD Science Operator in carrying out Mission-specific platform operations. MARUM also hosts > ECORD Summer Schools with the acclaimed virtual ship element. The Scientific Earth Drilling Information Service (> SEDIS), a web-based information service to facilitate access to all data and information related to scientific ocean drilling, was also developed at MARUM. A satellite IODP > Micropaleontological Reference Center (MRC) is located at the MARUM with complete sets of foraminifera and radiolarian samples from legacy cores from a wide range of geographical areas and geological ages.



# Onshore Science Party (IODP Exp. 357)







# ECORD Summer Schools



- 2007: "Paleoceanography"
- 2008: "The Deep Subseafloor Biosphere"
- 2009: "Geodynamics of Mid Ocean Ridges"
- 2010: "Dynamics of Past Climate Changes"
- 2011: "Subseafloor fluid flow and gas hydrates"
- 2012: "Submarine Landslides, Earthquakes and Tsunamis"
- 2013: "Deep Sea Sediments: From Stratigraphy to Age Models"
- 2014: "Subseafloor Biosphere: Current Advances and Future Challenges"
- 2015: "Ocean crust processes: magma, faults, fluxes and life"
- 2016: "Submarine Geohazards: Mapping, Monitoring, and Modelling"**



combine

- a practical on IODP style "shipboard" methodologies
- as well as lectures and interactive discussions on the main themes of IODP.





# ECORD Training Course

- NEW – for the 2<sup>nd</sup> time
- one-week course (March 7 to 17, 2016),
- 30 participants from 14 different countries invited,
- basic training focusing on the IODP core flow procedures,
- preparing the participants for sailing in an offshore drillship expedition,
- instilling them with an appreciation for high standards in all kinds of coring projects.



- a practical on IODP style “shipboard” methodologies
- IODP-style lab exercises form the foundation following the pattern of the unique “Virtual Ship” approach developed for the Bremen ECORD Summer Schools



# Virtual BCR visits

- ECORD School of Rock 2015
- Geoshow *unterirdisch*



Letzte Vorbereitungen im Bremer  
Bohrkernlager für die Livestreamung zur  
#GeoShow heute abend in Bonn #BoWiNa

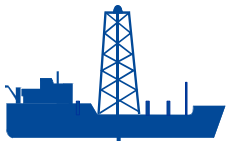




# Major achievements since Mar 2015

- About 33,930 samples (303 requests) taken,
- Aftermath of recent expeditions (339, 342, 357) incl. XRF scanning,
- New versions CurationDIS 6.0 and ExpeditionDIS 6.02,
- Continuously making all curatorial data available,
- Participating in offshore Exp. 357 and running the Exp. 357 Onshore Science Party,
- Planning for and participating in offshore Exp. 364,
- Participating in a variety of meetings,
- Running & teaching at ECORD Summer School 2015,
- Running & teaching at ECORD Training Course 2016,
- Participating in nominating new CAB members.





# IODP Curatorial Board (CAB)

- As stated in Chapter 8 of the new 'IODP Sampling, Data and Obligations' policy, the 5 CAB members should serve in overlapping terms.
- The members of the former IODP all agreed to continue serving on the CAB.
- The Chairs of the three facility boards confirm their continued membership and ask to serve on the CAB until the following dates:

*Clive Neal:* 2 years until September 30, 2016

*Noritoshi Suzuki:* 2 years until September 30, 2016

*Mike Lovell:* 3 years until September 30, 2018

*Hideyoshi Yoshioka:* 3 years until September 30, 2018

*Elisabetta Erba:* 3 years until September 30, 2018

- Approved/ratified July 2014