IODP Bremen Core Repository (BCR)


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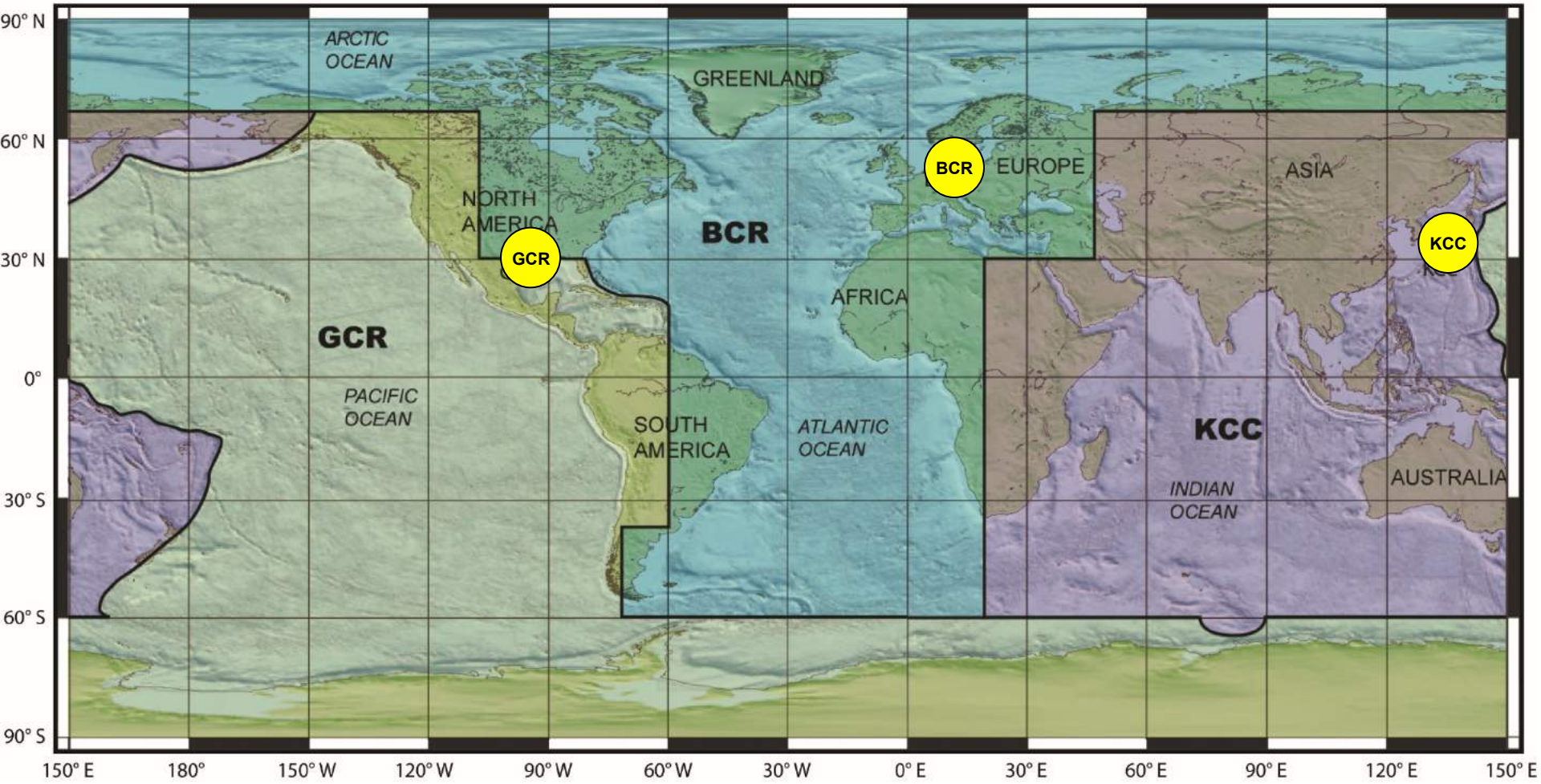
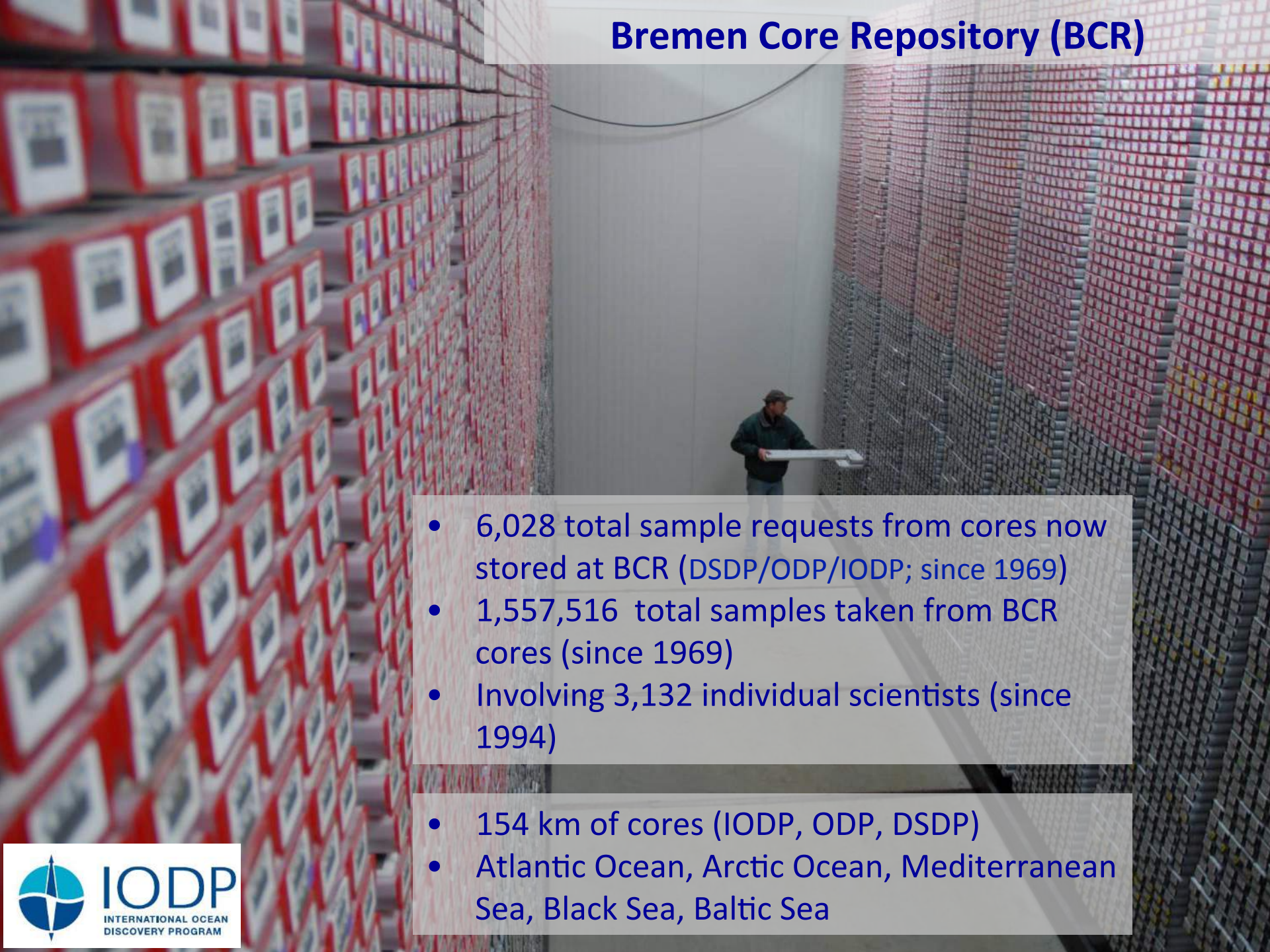
Universität Bremen

IODP Core Repositories



GCR: Gulf Coast Core Repository, College Station, Texas
KCC: Kochi Core Center, Kochi, Japan
BCR: Bremen Core Repository, Bremen, Germany

Bremen Core Repository (BCR)



- 6,028 total sample requests from cores now stored at BCR (DSDP/ODP/IODP; since 1969)
- 1,557,516 total samples taken from BCR cores (since 1969)
- Involving 3,132 individual scientists (since 1994)

- 154 km of cores (IODP, ODP, DSDP)
- Atlantic Ocean, Arctic Ocean, Mediterranean Sea, Black Sea, Baltic Sea

IODP
INTERNATIONAL OCEAN DISCOVERY PROGRAM

BCR webpage

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

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‹ home

IODP at MARUM - IODP Bremen Core Repository

IODP at MARUM

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

IODP Bremen Core Repository

- BCR Practices and Procedures
- Cores at BCR
- Satellite IODP Micropaleontological Reference Center

IODP
INTERNATIONAL OCEAN DISCOVERY PROGRAM

- International core repository at the University of Bremen
- Requesting samples from deep-sea cores
- Microbiology Sample Material Availability
- Upcoming events at BCR
- Contacts for the Bremen Core Repository
- How to find us

International core repository at the University of Bremen

The Bremen Core Repository - BCR, for International Ocean Discovery Program (IODP), › Integrated Ocean Drilling Program (IODP), › Ocean Drilling Program (ODP), and › Deep Sea Drilling Project› (DSDP) cores from the Atlantic Ocean, Mediterranean and Black Seas and Arctic Ocean is operated at University of Bremen within the framework of the German participation in IODP. It is one of three IODP repositories (beside Gulf Coast Repository (› GCR) in College Station, TX, and Kochi Core Center (› KCC), Japan) and was established in the summer of 1994. The IODP-BCR has a 1100 sqm refrigerated storage area with a movable rack system and state-of-the-art laboratory and office space, and is located in the MARUM building on the campus of Bremen University.

› BCR presently contains 154 km of deep-sea cores from 87 expeditions in around 250,000 boxes (also see › reports), which are sampled and analysed by national and international working groups. Around 200 scientists visit the repository annually, sometimes working on the cores in week-long sampling meetings (› video). As many as 50,000 samples per year are taken by guests and by the repository staff. The repository is an important contact point for scientists from all over the world (more than 2,000 visitors so far) and therefore significantly contributes to the exchange and transfer of marine science knowledge in Bremen, leading to interna-

BCR webpage

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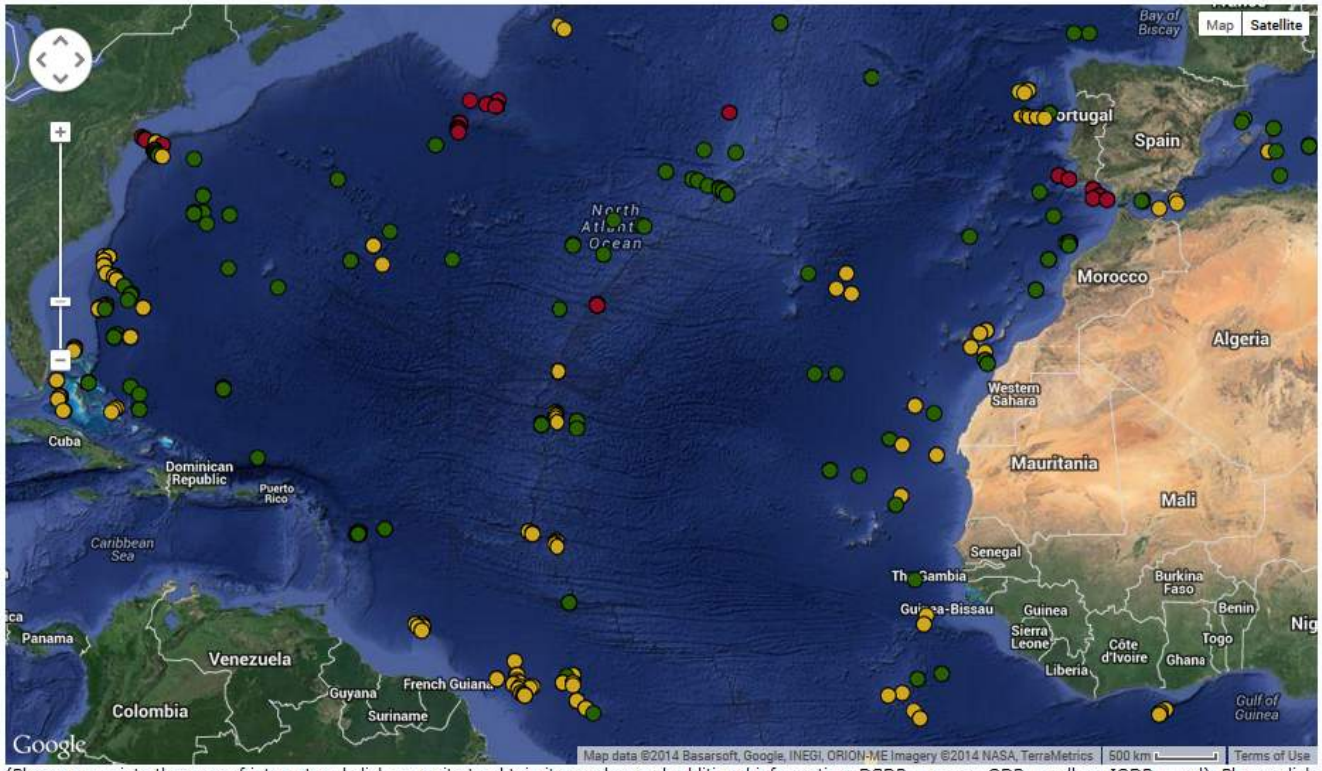
IODP at MARUM - IODP Bremen Core Repository - Cores at BCR

IODP at MARUM

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

Cores at BCR

Map of sites at BCR

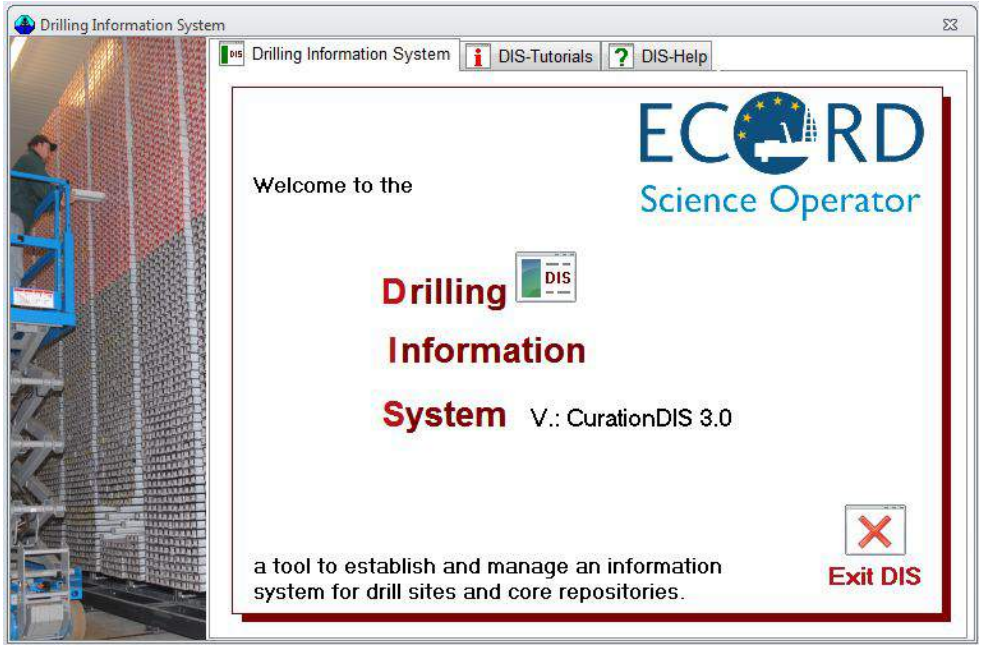


(Please zoom into the area of interest and click on a site to obtain its number and additional information, DSDP = green, ODP = yellow, IODP = red). Please click here for › polar view in Google Earth.

http://www.marum.de/en/Cores_at_BCR.html

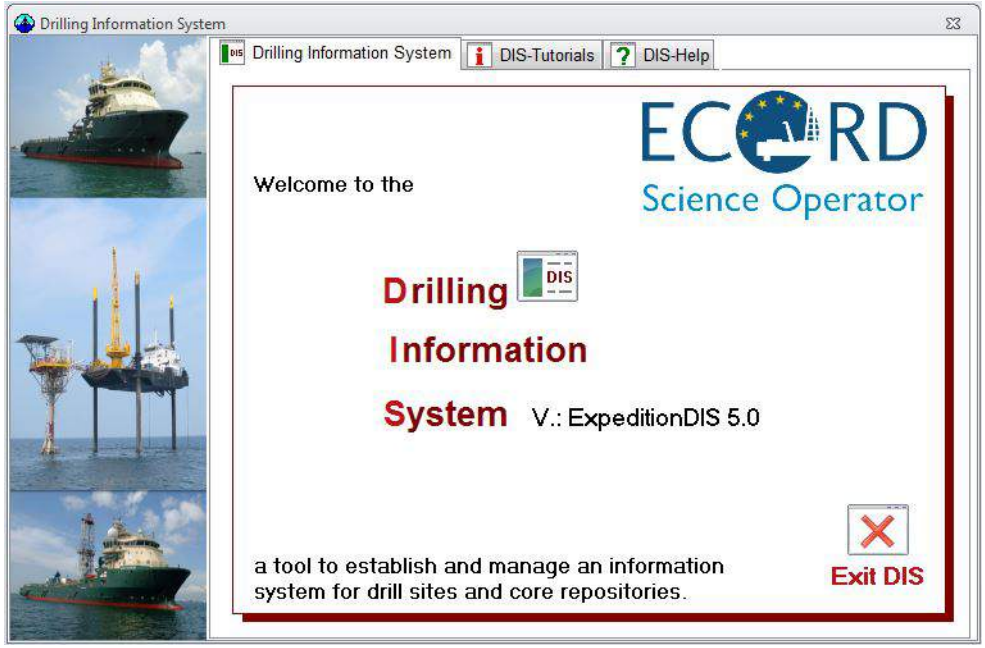
Major achievements in 2015

- Since October 2014 about 30,000 samples taken,
- Aftermath of recent expeditions (339, 342, 347)
  - sampling & XRF / CT scanning
- Digitizing all sample request since 1994 - done
- IGSN numbers for all BCR samples
- All curatorial data available online
- Updates CurationDIS 6.0 - ongoing
- Using SaDR for all requests
- Implementing new program policies & procedures
- Participating in a variety of meetings
- Planning of core workflow and compilation of sampling plans for Exp. 357 (Atlantis Massif) and Exp. 364 (Chicxulub Impact Crater)
- Initiating, designing and running new ECORD Training Course 2015
- Running ECORD Summer School 2015



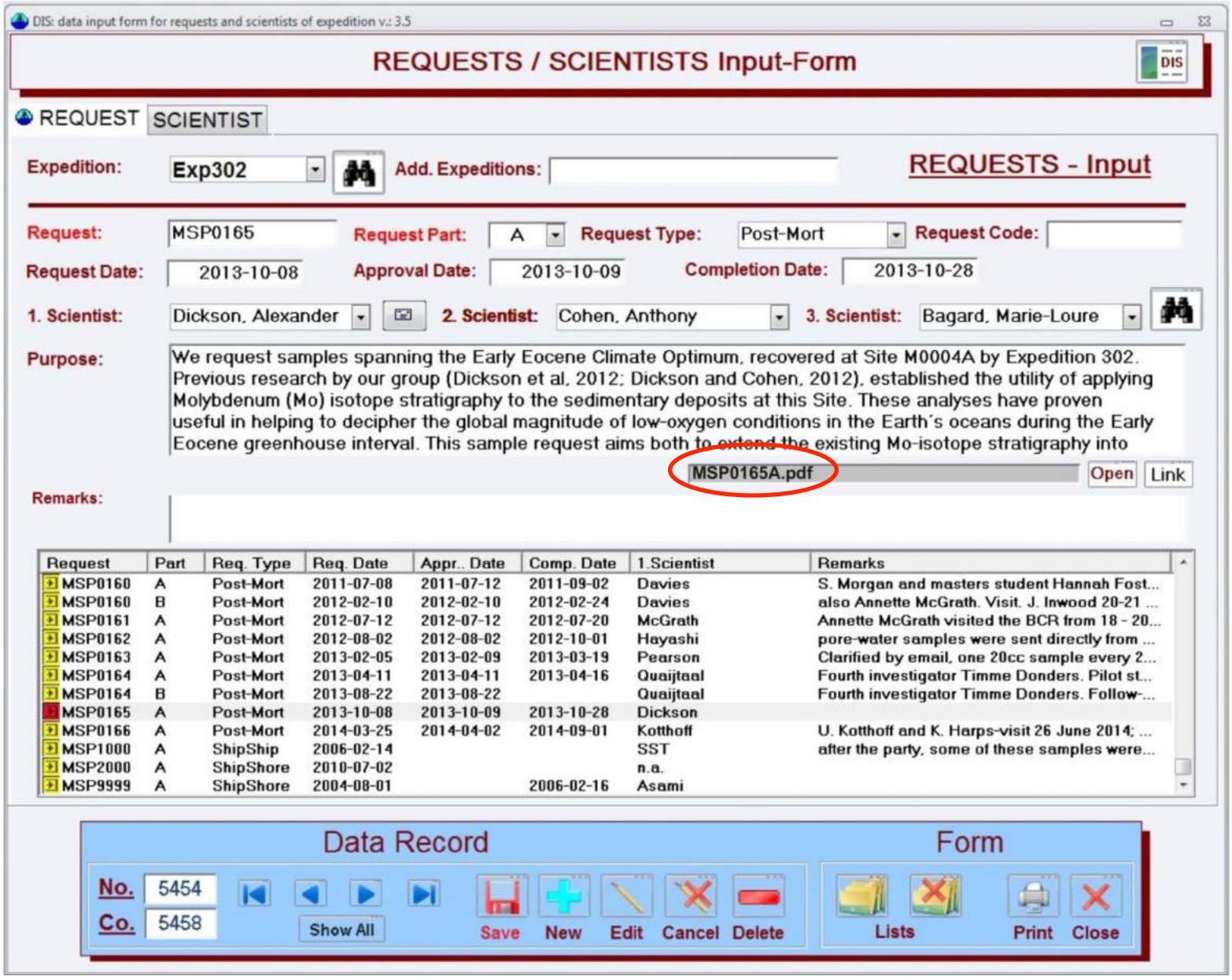
Repository Database „CurationDIS“

Expedition Database „ExpeditionDIS“

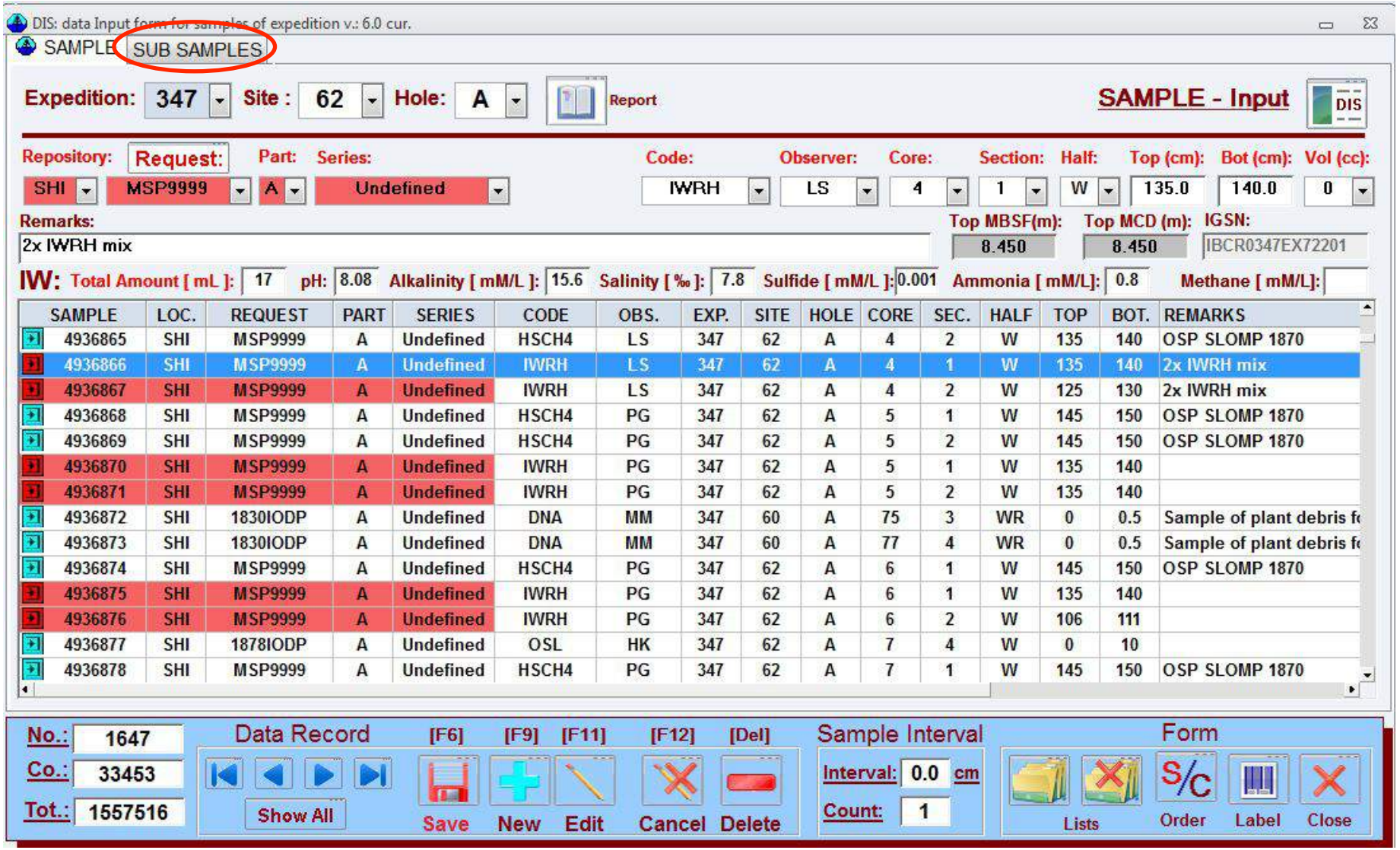


Toward new versions Drilling Information System (DIS)

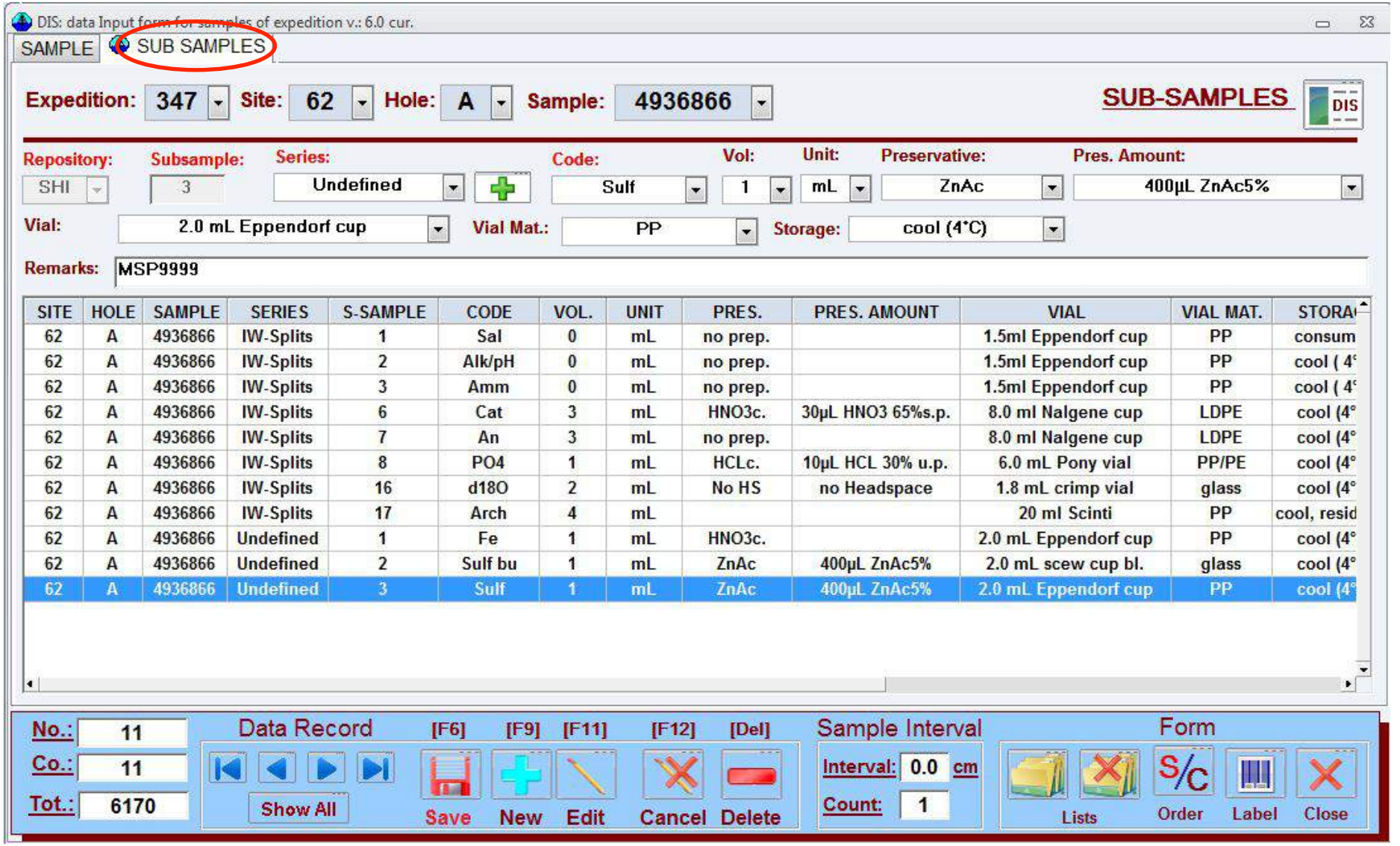
Digitizing sample request



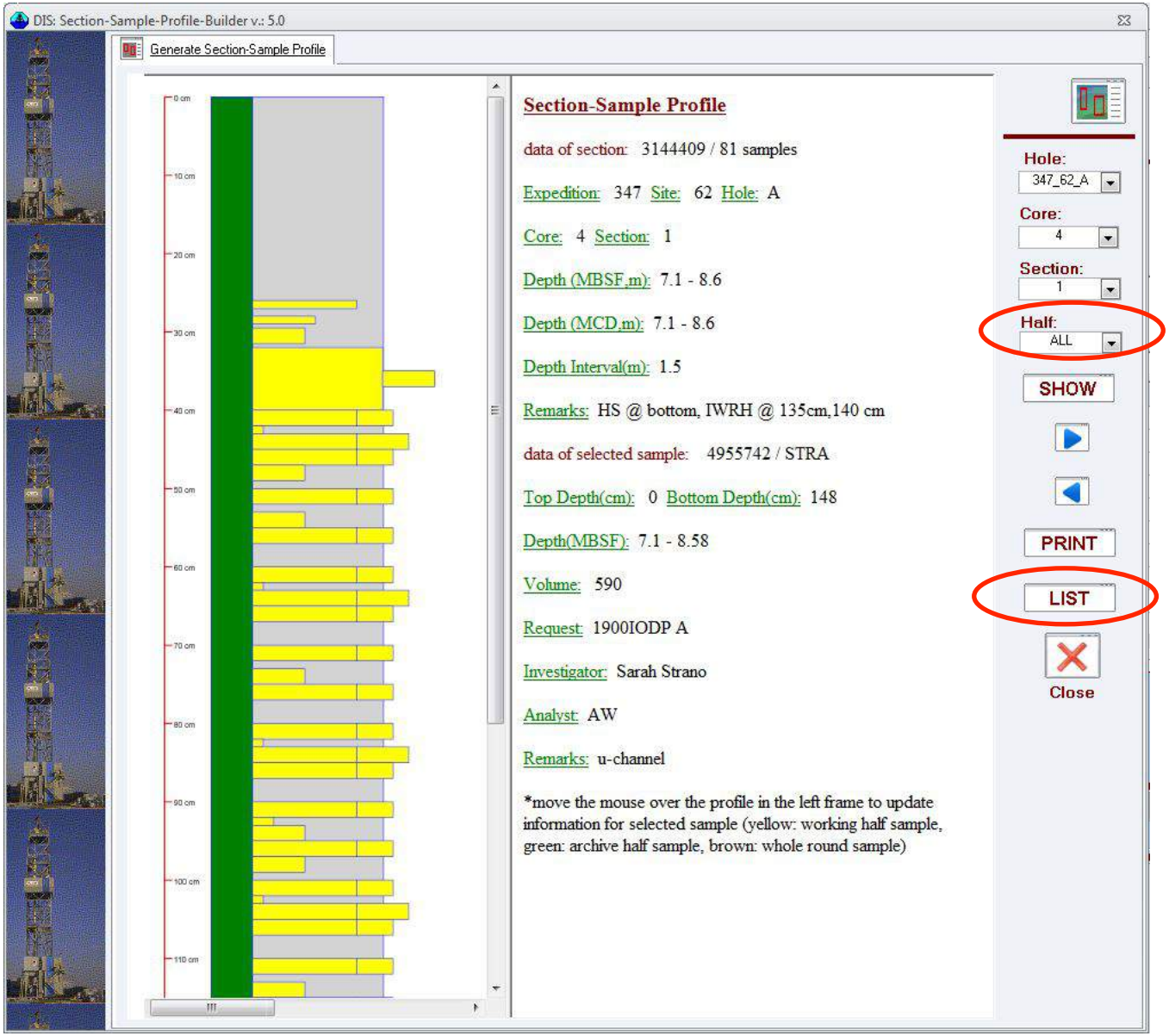
CurationDIS v. 6.0 – new subsample tools



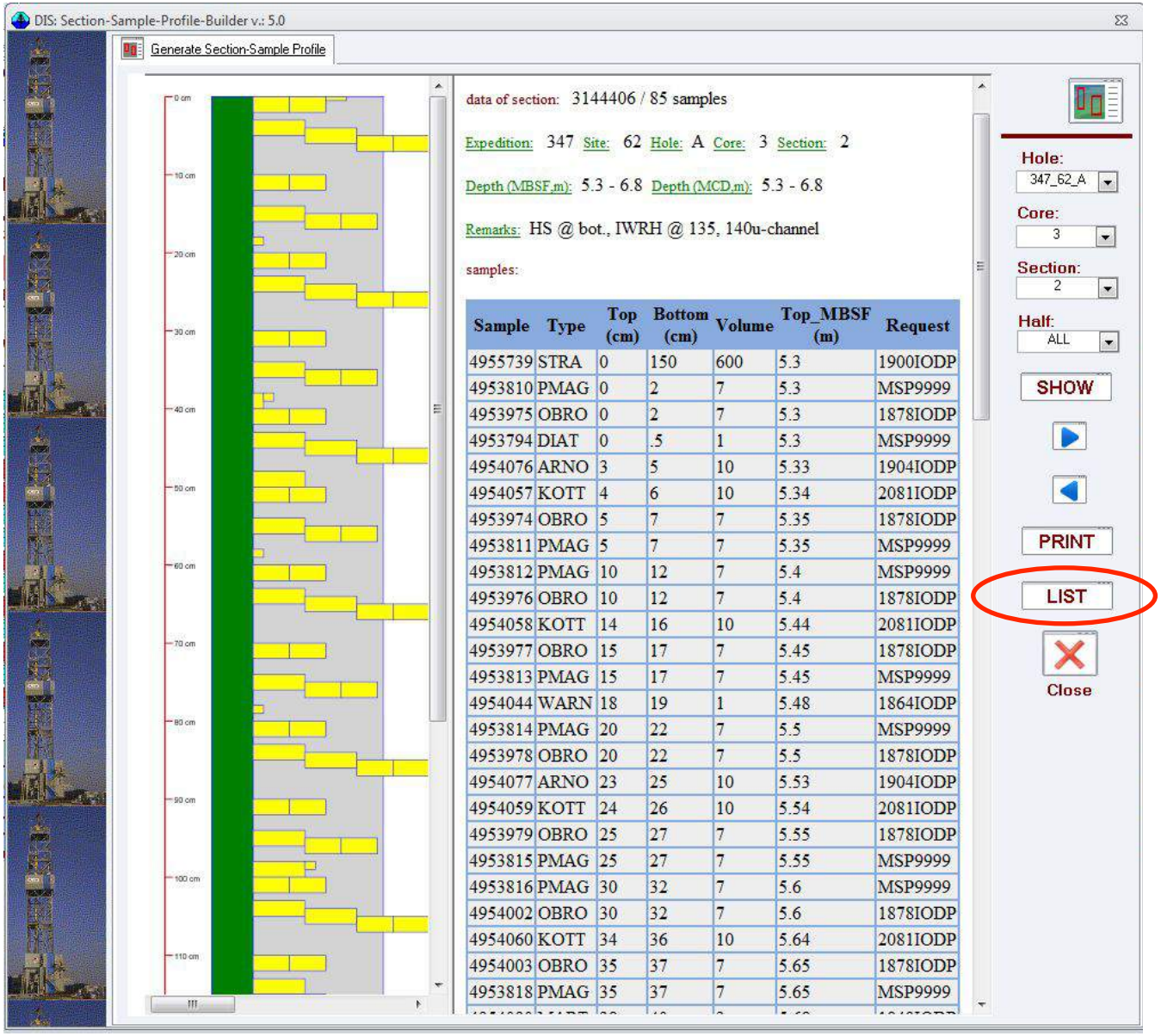
CurationDIS v. 6.0 – new subsample tools



DIS Section-Sample-Profile-Builder v. 5.0

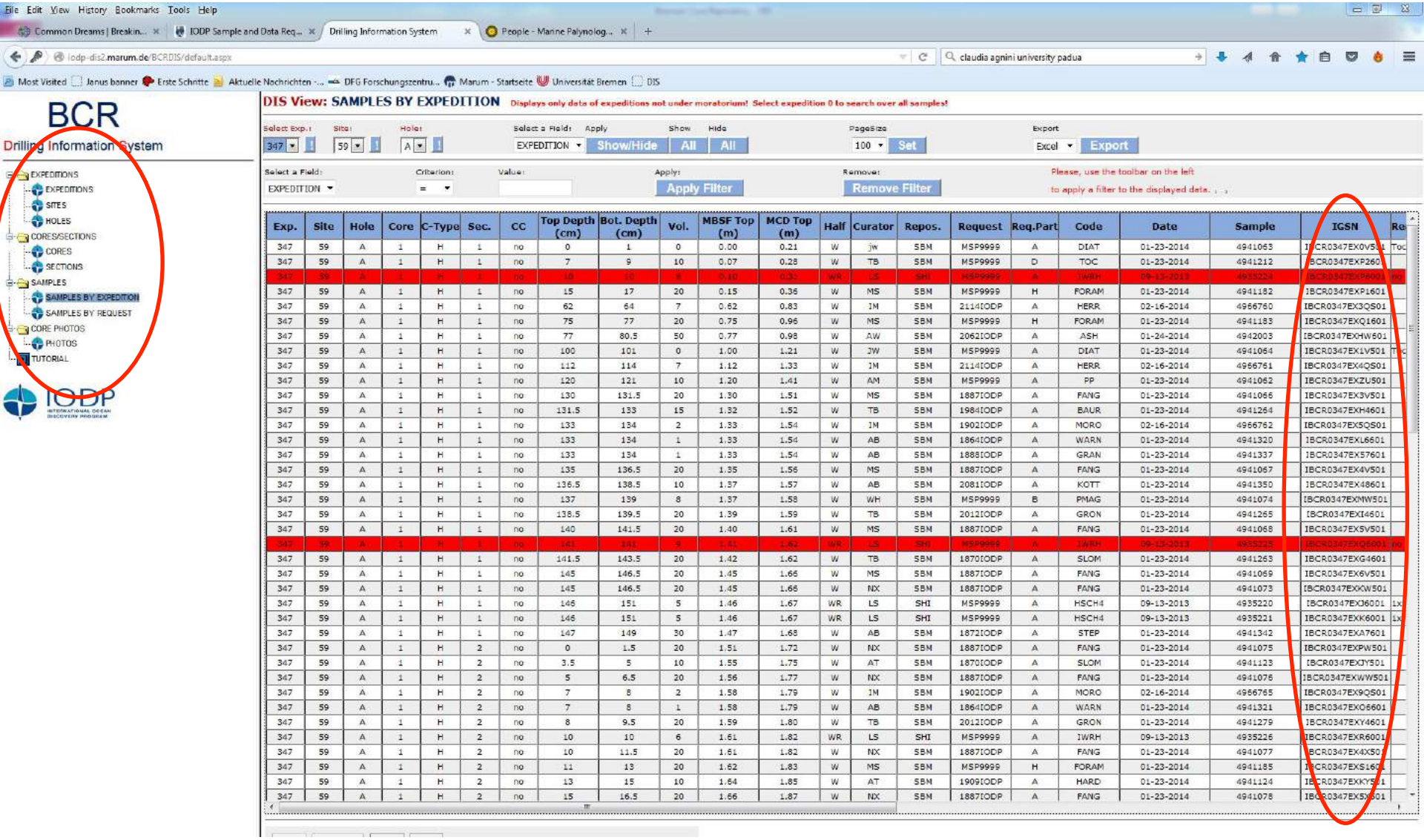


DIS Section-Sample-Profile-Builder v. 5.0



Sample	Type	Top (cm)	Bottom (cm)	Volume	Top_MBSF (m)	Request
4955739	STRA	0	150	600	5.3	1900IODP
4953810	PMAG	0	2	7	5.3	MSP9999
4953975	OBRO	0	2	7	5.3	1878IODP
4953794	DIAT	0	.5	1	5.3	MSP9999
4954076	ARNO	3	5	10	5.33	1904IODP
4954057	KOTT	4	6	10	5.34	2081IODP
4953974	OBRO	5	7	7	5.35	1878IODP
4953811	PMAG	5	7	7	5.35	MSP9999
4953812	PMAG	10	12	7	5.4	MSP9999
4953976	OBRO	10	12	7	5.4	1878IODP
4954058	KOTT	14	16	10	5.44	2081IODP
4953977	OBRO	15	17	7	5.45	1878IODP
4953813	PMAG	15	17	7	5.45	MSP9999
4954044	WARN	18	19	1	5.48	1864IODP
4953814	PMAG	20	22	7	5.5	MSP9999
4953978	OBRO	20	22	7	5.5	1878IODP
4954077	ARNO	23	25	10	5.53	1904IODP
4954059	KOTT	24	26	10	5.54	2081IODP
4953979	OBRO	25	27	7	5.55	1878IODP
4953815	PMAG	25	27	7	5.55	MSP9999
4953816	PMAG	30	32	7	5.6	MSP9999
4954002	OBRO	30	32	7	5.6	1878IODP
4954060	KOTT	34	36	10	5.64	2081IODP
4954003	OBRO	35	37	7	5.65	1878IODP
4953818	PMAG	35	37	7	5.65	MSP9999

BCR DIS Internet Interface

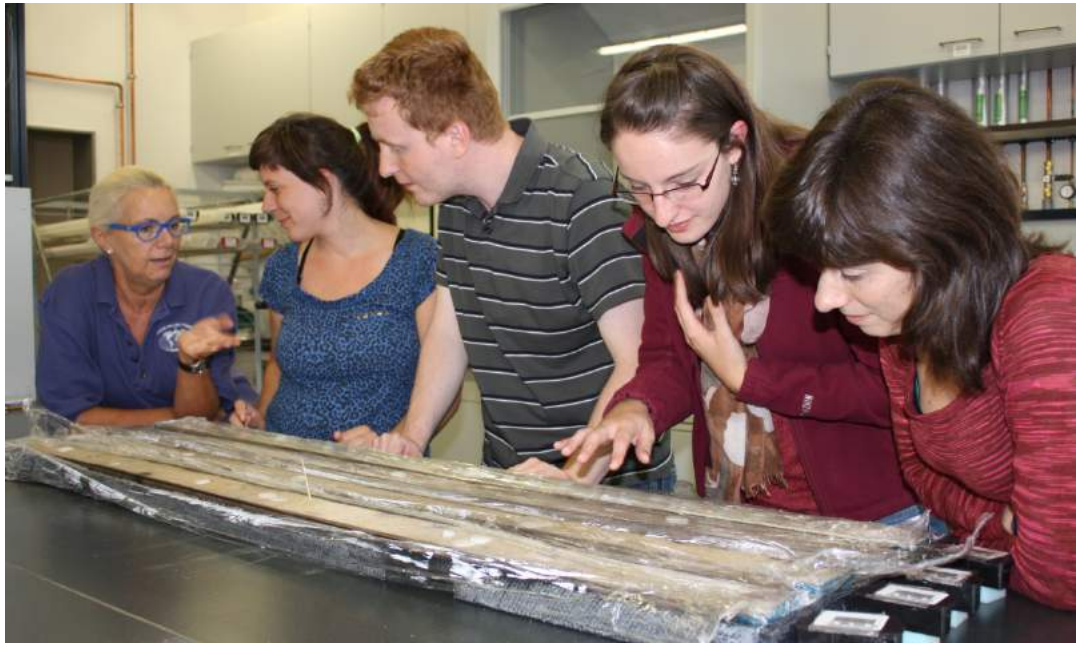


Exp.	Site	Hole	Core	C-Type	Sec.	CC	Top Depth (cm)	Bot. Depth (cm)	Vol.	MBSF Top (m)	MCD Top (m)	Half	Curator	Repos.	Request	Req.Part	Code	Date	Sample	IGSN	Re
347	59	A	1	H	1	no	0	1	0	0.00	0.21	W	jw	SBM	MSP9999	A	DIAT	01-23-2014	4941063	IBCR0347EX0V501	Toc
347	59	A	1	H	1	no	7	9	10	0.07	0.28	W	TB	SBM	MSP9999	D	TOC	01-23-2014	4941212	IBCR0347EXP260	
347	59	A	1	H	1	no	10	10	8	0.10	0.31	WR	LS	SHI	MSP9999	A	IWRH	09-13-2013	4935224	IBCR0347EXP6001	no
347	59	A	1	H	1	no	15	17	20	0.15	0.36	W	MS	SBM	MSP9999	H	FORAM	01-23-2014	4941182	IBCR0347EXP1601	
347	59	A	1	H	1	no	62	64	7	0.62	0.83	W	JM	SBM	2114IODP	A	HERR	02-16-2014	4966760	IBCR0347EX3QS01	
347	59	A	1	H	1	no	75	77	20	0.75	0.96	W	MS	SBM	MSP9999	H	FORAM	01-23-2014	4941183	IBCR0347EXQ1601	
347	59	A	1	H	1	no	77	80.5	50	0.77	0.98	W	AW	SBM	2062IODP	A	ASH	01-24-2014	4942003	IBCR0347EXHW501	
347	59	A	1	H	1	no	100	101	0	1.00	1.21	W	JW	SBM	MSP9999	A	DIAT	01-23-2014	4941064	IBCR0347EX1V501	Toc
347	59	A	1	H	1	no	112	114	7	1.12	1.33	W	JM	SBM	2114IODP	A	HERR	02-16-2014	4966761	IBCR0347EX4QS01	
347	59	A	1	H	1	no	120	121	10	1.20	1.41	W	AM	SBM	MSP9999	A	PP	01-23-2014	4941062	IBCR0347EXZU501	
347	59	A	1	H	1	no	130	131.5	20	1.30	1.51	W	MS	SBM	1887IODP	A	FANG	01-23-2014	4941066	IBCR0347EX3V501	
347	59	A	1	H	1	no	131.5	133	15	1.32	1.52	W	TB	SBM	1984IODP	A	BAUR	01-23-2014	4941264	IBCR0347EXH4601	
347	59	A	1	H	1	no	133	134	2	1.33	1.54	W	JM	SBM	1902IODP	A	MORO	02-16-2014	4966762	IBCR0347EX5QS01	
347	59	A	1	H	1	no	133	134	1	1.33	1.54	W	AB	SBM	1864IODP	A	WARN	01-23-2014	4941320	IBCR0347EXL6601	
347	59	A	1	H	1	no	133	134	1	1.33	1.54	W	AB	SBM	1888IODP	A	GRAN	01-23-2014	4941337	IBCR0347EX57601	
347	59	A	1	H	1	no	135	136.5	20	1.35	1.56	W	MS	SBM	1887IODP	A	FANG	01-23-2014	4941067	IBCR0347EX4V501	
347	59	A	1	H	1	no	136.5	138.5	10	1.37	1.57	W	AB	SBM	2081IODP	A	KOTT	01-23-2014	4941350	IBCR0347EX48601	
347	59	A	1	H	1	no	137	139	8	1.37	1.58	W	WH	SBM	MSP9999	B	PMAG	01-23-2014	4941074	IBCR0347EXMW501	
347	59	A	1	H	1	no	138.5	139.5	20	1.39	1.59	W	TB	SBM	2012IODP	A	GRON	01-23-2014	4941265	IBCR0347EXI4601	
347	59	A	1	H	1	no	140	141.5	20	1.40	1.61	W	MS	SBM	1887IODP	A	FANG	01-23-2014	4941068	IBCR0347EX5V501	
347	59	A	1	H	1	no	141	141	9	1.41	1.62	WR	LS	SHI	MSP9999	A	IWRH	09-13-2013	4935225	IBCR0347EXQ6001	no
347	59	A	1	H	1	no	141.5	143.5	20	1.42	1.62	W	TB	SBM	1870IODP	A	SLOM	01-23-2014	4941263	IBCR0347EXG4601	
347	59	A	1	H	1	no	145	146.5	20	1.45	1.66	W	MS	SBM	1887IODP	A	FANG	01-23-2014	4941069	IBCR0347EX6V501	
347	59	A	1	H	1	no	145	146.5	20	1.45	1.66	W	NX	SBM	1887IODP	A	FANG	01-23-2014	4941073	IBCR0347EXKW501	
347	59	A	1	H	1	no	146	151	5	1.46	1.67	WR	LS	SHI	MSP9999	A	HSCH4	09-13-2013	4935220	IBCR0347EXJ6001	1x
347	59	A	1	H	1	no	146	151	5	1.46	1.67	WR	LS	SHI	MSP9999	A	HSCH4	09-13-2013	4935221	IBCR0347EXK6001	1x
347	59	A	1	H	1	no	147	149	30	1.47	1.68	W	AB	SBM	1872IODP	A	STEP	01-23-2014	4941342	IBCR0347EXA7601	
347	59	A	1	H	2	no	0	1.5	20	1.51	1.72	W	NX	SBM	1887IODP	A	FANG	01-23-2014	4941075	IBCR0347EXPW501	
347	59	A	1	H	2	no	3.5	5	10	1.55	1.75	W	AT	SBM	1870IODP	A	SLOM	01-23-2014	4941123	IBCR0347EXJY501	
347	59	A	1	H	2	no	5	6.5	20	1.56	1.77	W	NX	SBM	1887IODP	A	FANG	01-23-2014	4941076	IBCR0347EXWW501	
347	59	A	1	H	2	no	7	8	2	1.58	1.79	W	JM	SBM	1902IODP	A	MORO	02-16-2014	4966765	IBCR0347EX9QS01	
347	59	A	1	H	2	no	7	8	1	1.58	1.79	W	AB	SBM	1864IODP	A	WARN	01-23-2014	4941321	IBCR0347EXO6601	
347	59	A	1	H	2	no	8	9.5	20	1.59	1.80	W	TB	SBM	2012IODP	A	GRON	01-23-2014	4941279	IBCR0347EXY4601	
347	59	A	1	H	2	no	10	10	6	1.61	1.82	WR	LS	SHI	MSP9999	A	IWRH	09-13-2013	4935226	IBCR0347EXR6001	
347	59	A	1	H	2	no	10	11.5	20	1.61	1.82	W	NX	SBM	1887IODP	A	FANG	01-23-2014	4941077	IBCR0347EX4X501	
347	59	A	1	H	2	no	11	13	20	1.62	1.83	W	MS	SBM	MSP9999	H	FORAM	01-23-2014	4941185	IBCR0347EXS1601	
347	59	A	1	H	2	no	13	15	10	1.64	1.85	W	AT	SBM	1909IODP	A	HARD	01-23-2014	4941124	IBCR0347EXKY501	
347	59	A	1	H	2	no	15	16.5	20	1.66	1.87	W	NX	SBM	1887IODP	A	FANG	01-23-2014	4941078	IBCR0347EX5X501	

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"

ECORD
EUROPEAN CONSORTIUM FOR OCEAN RESEARCH DRILLING



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

http://www.marum.de/en/ECORD_Summer_Schools.html

ECORD training course

NEW

ECORD
EUROPEAN CONSORTIUM FOR OCEAN RESEARCH DRILLING

IODP-style lab exercises form the foundation following the pattern of the unique "Virtual Ship" approach developed for the Bremen ECORD Summer Schools;
Held for the first time March 9 - 13, 2015
Next –> March 7 – 11, 2016

- one-week course
- offers a basic training focusing on IODP core flow procedures,
- preparing participants for sailing in an offshore drillship expedition,
- and instilling them with an appreciation for high standards in all kinds of coring projects.

http://www.marum.de/en/ECORD_Training_Courses.html

Milestones in 2016

- Aftermath of more recent expeditions (339, 342, 347)
  - sampling & XRF / CT scanning
- Updates CurationDIS 6.0 – ongoing
- IGSN numbers for all BCR samples – registration
- Using SaDR for all requests
- Implementing new program policies & procedures
- Participating in a variety of meetings
- Onshore Science Party for Exp. 357 (Atlantis Massif) (Jan/Feb)
- Planning of core workflow and compilation of sampling plans for Exp. 364 (Chicxulub Impact Crater)
- Exp. 364 (Chicxulub Impact Crater) (Apr/May)
- Onshore Science Party for Exp. 364 (Chicxulub Impact Crater) (late Sept/early Oct)
- Running ECORD Training Course 2016 (Mar)
- Running ECORD Summer School 2016 (early Sept)

IODP
INTERNATIONAL OCEAN DISCOVERY PROGRAM

BCR Budget – FY16

Budget (12 months: 1 Jan - 31 Dec 2016)

Core Curation	TOTAL
Salary and Fringes 1.6 FTE	$ 257,848.00
Travel	$ 4,025.00
Supplies	$ 9,660.00
Shipping	$ 20,125.00
Student workers	$ 16,100.00
CurationDIS update	$ 6,706.00
SEDIS maintenance 24/7 & upgrades 0.08 FTE	$ 17,710.00
Total Core Curation	$ 332,174.00

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