



ExpeditionDIS - Drilling Information System

The ExpeditionDIS – an overview

The ExpeditionDIS is an information system for drilling projects. It consists of a set of predefined data input forms, reports, views and visualizations (the user interface), connected to a relational database.

The standard version of the ExpeditionDIS is configured to meet the specifications and requirements of the Intercontinental Scientific Drilling Program (ICDP) and the Integrated Ocean Drilling Program (IODP), Mission Specific Platform expeditions. However, the interface and the data model are adaptable,

and can be customized for other drilling projects also.

Once the ExpeditionDIS application is installed on your PC, you will see an icon on the desktop.



Please double-click this icon to start the ExpeditionDIS, then enter a valid user ID and password when prompted.

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After logon the ExpeditionDIS application window will be displayed.

The user interface of the ExpeditionDIS is based on forms and toolbars.

The main ExpeditionDIS toolbar and form are displayed when the program has started.

You can access all functions of the ExpeditionDIS through the toolbar icons and pull-down menus.

The ExpeditionDIS main form is split into different tabs, to distinguish the main data input and output functions.

Drilling Information Sys	stem	×
	Dilling Information System	Data Input
	Selection of data input feature	smart DIS
	Available main input-form and a	data-pumps
		Please select an input-form
The last	Expeditions	Sites / Holes
*	Cores / Sections	Cuttings
	Samples	Requests / Scientists
		ExpeditionDIS v.: 2.1

The Data-Input tab accesses the main input tools (the input forms and data pumps). Input forms are forms that are used to enter drilling data manually into the database. Data pumps import data automatically from ASCII formatted files.

合 Drilling Information Sys	tem		×
1.1.	Dilling Information System	The System Data Input 🕎 Data Output	
T	Selection of data output feature	smart DIS	
THE	Available main data-v	r <mark>iews and data-reports</mark> Report	
and the second second	Views	Please select a data-view	
	Cores	Samples 🔝	
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T		ExpeditionDIS v.: 2.1	1.1.1.1.1

The Data-Output tab accesses the data output tools (the data reports, and data views). Data reports are normally used to print out selected data from the database, and data views are used to display selected data on the screen.

The ExpeditionDIS toolbar contains icons for all main functions of the application as well as a shortcutpull-down menu to access all input-forms, reports, views and tools using one mouse-click. The content of the toolbar depends on the user login level. For example, only the user-id 'disadm' (Administrator) has full access to all features of the ExpeditionDIS, the user-id 'disopr' (Operator) has access to all input forms, reports, views and some tools, and the user-id (disusr) has access to views and reports only (unable to insert or edit any data within the database).



The ExpeditionDIS – Input forms

The first step in working with the ExpeditionDIS is to enter the set-up data for your drilling project into the database. Normally all of this initial input of data at expedition level is done by the Administrator. Open the Program/Expedition-input form from the toolbar or the main form to enter this data. In the ExpeditionDIS data model, each borehole belongs to a drill site, each drill site belongs to an expedition and each expedition belongs to a program. Please select

'Shortcuts' -> 'InputForms' -> 'EXPEDITION_INP' from the toolbar to open this input form.

DI5: Data Input Form for gen	eral expedition data v.: 2.1
	N PROGRAM - Input
Program Acronym: Program Name:	ODF Integrated Ocean Drilling Program
Remarks:	Mission Specific Platform
Da	ta Record Form

The Program/Expedition input form is used to enter data for the program and expedition.

For the program, enter a program acronym, the full program name and an optional remark/comment.

For all input forms in the ExpeditionDIS, the convention is that entries with a red caption are mandatory and entries with blue captions are optional.

Another convention of input forms is that, if you open an input form for the first time (no data entered already), the form will automatically go to a new record and you can start to enter your data immediately. If the form contains some data entries already, you have to click the 'New'- button to enter a new record. The form indicates 'new' in the record-number-display (bottom-left of the form) and all input fields are highlighted in blue to indicate that new data can be entered.

OIS: Data Input Form for gen	eral expedition data v.: 2.1 OGRAM-EXPEDITION In	<u>■</u> □× put-Form smart DIS
	N]	
		PROGRAM - Input
Program Acronym:	BGS	
Program Name:		
Remarks:		
	ta Record	Form
	Save New Edit Cancel Dele	

The input field that has the input-focus is always highlighted in yellow. You can use the mouse or the tab-key to navigate to the next input-field (the latter method is recommended).

Once data entry is completed, you can use either the 'Save'-button or click one of the record-navigation buttons

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to save the entry to the database. Note that if you close an input-form (the Exit button in the bottom-right corner) without saving the new record, the system will save your data record automatically.

Please keep in mind also that you are working with a database. The database will check if your entries are valid and you will receive an error-message if your entries are not valid according to the database

constraints (rules). For example, the database does not allow you to enter two different programs with the same name or acronym into the Program/Expedition input form.

Existing records in an input form can be edited. Use the record-navigation buttons to navigate to the record that is to be edited then click on the 'Edit'-button. The data entry fields will be highlighted in red to show you are in edit-mode, and that edits can be made. The 'Cancel'-button can be used to undo your last edits or to cancel a new data entry.

After you have entered the information in the Program tab, you can switch to the Expedition-tab to enter the information describing the expedition.

DIS: Data Input Form for gene	eral expedition data v.: 2.	i TION Input-For	smart DIS
			and Cho
		an a that is a second second of the	
Program Acronym:		EXPE	DITION - Input
Expedition Number:	313		
Expedition Name:	New Jersey Continental S	ihelf	
Acronym:	NJCS	<u>Date-Format: DI</u>	D-MM-YYYY
Expedition Start:	1 30-06-2007	Expedition End:	23-11-2005
Platform:	Įtbd	Chief Scientist:	Gregory Mountain
Project Area:	New Jersey Continental S	ihelf	
Comment:			
	and a second state of the second s		
Nr. 2 Show A Co. 3 H	Image: Save Image: Save Image: Save <th>New Delete</th> <th></th>	New Delete	

An expedition is defined by an expedition-number, a name, an acronym, a start date, a platform (rig name/number or ship) and a chief scientist/manager (this is a text entry so the names of co-chief scientists can be entered as a string of text). There is a field for entering the geographic area, a comment and the end date. The end date is unknown until the expedition is completed, so it is an optional field in the form.

Note that if you switch from one tab to another tab in any ExpeditionDIS input form, the system automatically filters the records to display only the records related to the selected record of the previous

tab. If you have selected the Program 'BGS' on the Program-tab and you switch to the Expedition-tab, the system will only display expeditions that belong to the program 'BGS'. If you want to see all expeditions in the database you have to disable this filter by clicking the 'Show All'- button.

After you have finished the entry of high-level information for your expedition, you can start to enter the data for your sites and holes in the Sites-Holes-input form.

Select 'Shortcuts' -> 'InputForms' -> 'SITES_HOLES_INP' from the toolbar to open this input form.

合 DIS: data input forr	n for sites and holes of expe	dition v.: 2.1		×
的這個現地的	SITE-HO	OLE Input-For	<u>m</u>	smart DIS
SITE HOLE				
Expedition:	NJCS <u>-</u>			E - Input
Platform ID:	Mission Specific	Site:	28	
Prospectus Latitude (dec.):		Prospectus Longitude (dec.):		
Prospectus Latitude (deg): Prospectus Longitude (deg):		Prospectus Latitude (min): Prospectus Longitude (min):	<u>Dir.:</u> [
Latitude (dec.):		Longitude (dec):		
Latitude (deg.): Longitude (deg):		Latitude (min.): Longitude (min):	<u>Dir.:</u> [J
Expected Water Depth: Start Date: Elevation (m):	■ 08-06-2007 18:21:36 ▼	<u>WD-Method:</u> End Date: 2. Elevation (m):	tag sea floor	
Prospectus Name: Remarks:				
Dat	ta Record		F	orm
Nr. 1 Co. 1 H	Show All Sa	ve New		ð <u>1</u>

An expedition can have one or more sites and each site can have none, one or many boreholes. A site is identified by a site-number and a platform-id and it may have optional entries for latitude, longitude, etc.

Please keep in mind that you always have to keep to the workflow that is defined by the database. For example, you cannot enter a drill core for borehole 'A' of drill site '350' of project 'Tahiti' from Program 'IODP' before you have entered the higher-level information for this program, expedition, site and hole.

Also, note that you cannot change/select another expedition on the site and hole input form. This is by design. The selection of a different expedition, site and hole is always done through a special selection form.

lease select an ex	pedition,	site and	hole	
Select Program	TODP	•		
Select Expedition	Tahiti	•		
Select Site	6		1	
Select Hole	A	-	UK	198

This selection form is accessed by clicking the icon on the toolbar.

In this form you can select another program, expedition, site, or hole (during an expedition it is used for switching to different sites and holes). All input forms and data reports will automatically switch to the selected program, expedition, site and hole settings. The last selection will be saved when you close the ExpeditionDIS and it will be applied automatically the next time you open the application.

The next step is to enter data for a borehole on the 'Hole' tab of the Sites and Holes input form. A Hole is defined by the expedition number, the corresponding site number and a hole identifier (A-Z). Additionally you have to enter the latitude and longitude, and the (Water) depth of the hole and the associated measurement method. All other entries are optional.

DIS: data inpu	it form for sites a	nd holes of exp	edition v.: 2.1		
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SITE 🙆 HOI	LE	e			a dan 1990 yang barang bar
Expedition:	NICS	<u>्रि</u>	Site:	28 +	HOLE - Input
and the second	Inves				1.
Hole:	A				
Latitude (deg	1		Latitude (min):	10.000	Dir.: N 🔹
Longitude (de	eg.]: 12		Longitude (min):	12.000	Dir.: E 💌
Start Date:	108-06-2007	19:15:40 🚨	End Date:	28-03-2008	14.24.31
Water Depth:	248		WD-Method:	echo sounde	r (corrected)
Drilling Depth	Method (DRF):				
Drilling Dept	h Method (DSF):	ſ			
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Core Depth N	lethod (CCSF):	_			
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Remarks:	nini da naraziran 1915 - Nine	an tha an an ann an Anna		TELETAN CON	Enderscherzentling Billi
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	Data Recor	d			Form
Nr. 1	Show All				6 6 <u>1</u>
			Cancer Del		

After the Site and Hole information is entered into the database you can open the Core-Section-Input form to enter the data about the recovered cores for each hole.

Select 'Shortcuts' -> 'InputForms' -> 'CORES_SECTIONS_INP' from the toolbar to open this input form.

There are different data models available to archive information, which can be implemented if required. In the current model, a core is a length of core material (usually inside a length of liner tube and/or the core catcher) extracted from a borehole during a single core run. A core is assigned an identifier consisting of a unique sequential number (starting at 1 for the first core). A core also has a core type, a top depth, a drilled length, a bottom depth (calculated from top depth and drilled length), a section count (see next paragraph), a recovery and a recovery date/time.

A core is split into one or more sections (core/sediment pieces) which are stored in core boxes or core tubes. A section may be split into sub-sections (sub-core pieces).

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CURE	SECHO	NI SOB	SECTIO	N			Wallias					
Expediti	on: Tal	niti <u>-</u>		<u>Site C</u>	ode:	10 -	I	Hole	<u>Code:</u>	A ·		CORE - Input
Core:		2	Core 1	vpe: Ro	tary Core E	arrel (RCB)		• Top D	epth (m	3.30	Drilled Length	1 (m): 3.08
Section	Count:	2	Core (Catcher	2.	yes		Curat	or:	AW -	Core On Decl	22-Oct-2005 18:32
		- -		Carp S	(a)	10.00						
ore He	covery [m]	: 0.57	Lore	<u>tecover</u>	<u> </u>	18.51		Bottom D	epth (m	E 5.38	MCD Unsec.]	0 <u>100 mco.</u> j .
<u>Core Ori</u>	ented ?:	no	Remar	<u>ks:</u> fir	ie black sai	nd IVV Rhiz	to @ 2	26,41cm	10000000			Open Cores / Sections Report
Core	T-Depth	B-Depth	Recov	Rec	D-Len	Sections	CC	Operator	Orien	Remarks		
Hard Here	1 35	3.3	0.5	25.64	1.95	2	yes	AW	no	fine black sand	1 IW Rhizo @ 34	4cm
<mark>€</mark> 18	1.00					100	11000	AMAG	80	fine black sand	 I) (Dhine (3) 26 	
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▶ 1R 2R ▶ 3R	3.3 6.38	6.38 9.23	0.57	18.51 15.79	2.85	2	yes	AW	no	fine black sand	1 IW Rhizo @ 23	3cm
1R 2R 2R 3R 4R 4R	6.38 9.23	6.38 9.23 12.03	0.57 0.45 0.26	18.51 15.79 9.29	2.85 2.8	2 2	yes yes yes	AW AW	no no	fine black sand "cc" attached	d IW Rhizo @ 23 to bot. of sect. 1	o, 41 cm 3cm
1R 2R 3R 3R 4R 5R 5R	1.33 6.38 9.23 12.03	6.38 9.23 12.03 15 17	0.57 0.45 0.26 0.1	18.51 15.79 9.29 3.37	2.85 2.8 2.97	2 2 1	yes yes yes	AW AW AW	no no no	fine black sand "cc" attached	I IW Rhizo @ 23 to bot. of sect. 1	s, 41cm 3cm
1R 2R 2R 3R 2 4R 2 5R 5R 2 6R 2 70	1.33 3.3 6.38 9.23 12.03 15 17	6.38 9.23 12.03 15 17 19	0.57 0.45 0.26 0.1 0.2 0.2	18.51 15.79 9.29 3.37 10 12.5	2.85 2.8 2.97 2	2 2 1 1	yes yes yes yes	AW AW AW AW	no no no no	fine black sand "cc" attached	1 IW Rhizo @ 23 to bot. of sect. 1	s, 41cm 3cm
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On the first tab of the Core-Section-Input form you enter the data describing the cores for a borehole. There is a list-view in the middle part of the input form that displays the list of all cores that are already entered for the selected borehole. Clicking on a core within this list selects the core for editing in the data entry boxes at the top of the form.

If you click on the 'New'-button to add a new core, this input-form will automatically insert the next core number in the corresponding data entry box, and the bottom depth of the previous core is automatically entered as the top depth of the current core. There are other validation features that prevent the user from entering wrong data. For example, if the user enters/edits the top depth for a new core that is shallower than the bottom depth of the previous core, a notification message is displayed.

Each input form and data view within the ExpeditionDIS contains the ability to search for data records by using filters. Click on the 'Create Filter' button on the main toolbar to search for data and then enter the search values into the corresponding text boxes of the input form or data view. Finally click on the 'Apply Filter' button on the toolbar to search for the data.

The 'Cores / Sections report'-button opens a printable report of all cores and sections for the selected borehole.

	DDP	ea Level E)	(pedition	(Tahiti)					EC Scie	a Banagement					
DIS: L)ata-Report	E / SECTION SUMMARY					Page 1								
Expe	dition: 310	<u>Site:</u>	26	Hole:	А	TOTALE	RILLED	LENGTH:	79.00	m CO	RERECO	VERY:	8.43 m	10.67 %	
Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered	Core Recovered (%)	Section Num	Liner Length	Oursted Length	Top Depth	Bottom Depth		Section Rem	arks	
1-B	11/14/2005 1:45:00 AM	1.4	2.75	1.35	0	0.00									1
) recovery	9%	8	8		20 - S	1	1	1	1	1.4	2.4	Wom -o	m , PAL @, MB	io cm - cm	1
2-R	11/14/2005 2:13:00 AM	2.75	4.25	1.5	0.74	49.33		1 200 1			1 22	ï			
nit barre I, n	nanerna ip baced lind liner o	a nincor			1 1 2 2 2	1	1 18 1	0.7.4	0.74	2.75	3.49				1
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5-R	11/14/2005 3:43:00 AM	7.14	8.55	1.4.1	1.34	95.04		c 3	1 39		50	Si C			1
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6-R	11/14/2005 4:13:00 AM	8.55	10.55	2	0.97	48.50		17 - 38 				10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			
lit barre I, n	naterbalp bloed bato liber o	100milition					1	0.97	0.97	8.55	9.52				10
7-R	11/14/2005 4:55:00 AM	10.55	12.05	1.51	0,76	50.33		076	0.76	10.55	1 11 31	1			-
8-R	11/1/2005 8:5500 AM	1206	124	0.34	06	176.47		0.10	0.10	10.00	1 11.21	1			1
TATP @	cm HS @ cm , M cm - cm	alto PAL, a	to PAL, alto	PAL, alto P	AL, alto PAL,	alto PAL,	1	0.6	0.6	12,06	12.66				5. C
9-R	11/14/2005 8:55:00 AM	12.4	68.4	56	0	0.00	1								
to PAL, A	TP @ cm, HS @ cm, M	RH ØQ, MV cm	- an satisatisa	346	N 46 13		1								
10-R	11/14/2005 8:55:00 AM	68.4	70.4	2	0	0,00	1								
11-17	11/14/2005 8:55:00 AM	70.4	73.4	3	0	0.00	1								
FP @ cm	1														
12-R	11/14/2005 8:55:00 AM	73.4	75.4	2	1	50.00	-								
13-R	11/14/2005 8:55:00 AM	75.4	77.4	2	1 31	50.00	1								
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an - cm,	PAL 02 TIO 12ST, AND PA	L.				-	8								
onday, M	larch 31,2008													Page 1 to 1	

After the core-level information is entered, select the sections-tab to enter the data for the individual sections of the last-entered or selected core.

			SECTION	1		111-20	
		1000			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		SECTION Insu
<u>kpeditic</u>	n: Tahi	ti –	Site :	10 -	Hole:	A -	Core: 4 Type: R
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Core	Section 1	T-Depth 6.38	6.77	0.39	0.39	AW	
Core 3 3R 3 3R	Section 1 CC	<u>T-Depth</u> 6.38 6.77	6.77 6.83	0.39 0.06	0.39 0.06	AW AW	Tehlaiks
Core 3R 3R 3R 4R	Section 1 CC 1	T-Depth 6.38 6.77 9.23	B-Depth 6.77 6.83 9.49	0.39 0.06 0.21	0.39 0.06 0.26	AW AW AW	CC 4R2 (length 0.05) added to this section
Core 3R 3R 3R 4R 4R	Section 1 CC 1 CC	T-Depth 6.38 6.77 9.23 9.44	B-Depth 6.77 6.83 9.49 9.49	0.39 0.06 0.21 0.05	0.39 0.06 0.26 0.05	AW AW AW AW	CC 4R2 (length 0.05) added to this section - attached to bot. of sect. 1
Core 3R 3R 4R 4R 4R 5R	Section 1 CC 1 CC CC CC	T-Depth 6.38 6.77 9.23 9.44 12.03	B-Depth 6.77 6.83 9.49 9.49 12.13	0.39 0.06 0.21 0.05 0.1	0.39 0.06 0.26 0.05 0.1	AW AW AW AW AW	CC 4R2 (length 0.05) added to this section attached to bot, of sect. 1
Core 3R 3R 4R 4R 5R 6R	Section 1 CC 1 CC CC CC CC	7-Depth 6.38 6.77 9.23 9.44 12.03 15	B-Depth 6.77 6.83 9.49 9.49 12.13 15.2	0.39 0.06 0.21 0.05 0.1 0.2	0.39 0.06 0.26 0.05 0.1 0.2	AW AW AW AW AW AW	CC 4R2 (length 0.05) added to this section attached to bot, of sect. 1
Core 3R 3R 4R 4R 5R 5R 6R 7R	Section 1 CC 1 CC CC CC CC CC CC	7-Depth 6.38 6.77 9.23 9.44 12.03 15 17	6.77 6.83 9.49 9.49 12.13 15.2 17.25	0.39 0.06 0.21 0.05 0.1 0.2 0.25	0.39 0.06 0.26 0.05 0.1 0.2 0.2 0.25	AW AW AW AW AW AW AW	CC 4R2 (length 0.05) added to this section attached to bot, of sect. 1
Core 3R 3R 4R 4R 5R 5R 6R 7R 8R 8R	Section 1 CC 1 CC CC CC CC CC 1	7-Depth 6.38 6.77 9.23 9.44 12.03 15 17 19	6.77 6.83 9.49 9.49 12.13 15.2 17.25 19.45	0.39 0.06 0.21 0.05 0.1 0.2 0.2 0.25 0.45	0.39 0.06 0.26 0.05 0.1 0.2 0.25 0.45	AW AW AW AW AW AW AW AW	CC 4R2 (length 0.05) added to this section attached to bot, of sect. 1
Core 3R 3R 4R 4R 5R 5R 5R 7R 8R 8R 8R 8R	Section 1 CC 1 CC CC	T-Depth 6.38 6.77 9.23 9.44 12.03 15 17 19 19.45	B-Depth 6,77 6.83 9.49 12.13 15.2 17.25 19.45 19.6	Sec. Len 0.39 0.06 0.21 0.05 0.1 0.2 0.25 0.45 0.15 0.15	Cur. Length 0.39 0.06 0.26 0.1 0.2 0.25 0.45 0.15	AW AW AW AW AW AW AW AW AW	CC 4R2 (length 0.05) added to this section attached to bot, of sect. 1
Core 3R 3R 4R 4R 5R 5R 6R 5R 5R 8R 8R 8R 9 8R	Section 1 CC 1 CC CC CC CC 1 CC 1 CC	T-Depth 6.38 6.77 9.23 9.44 12.03 15 17 19 19.45	B-Depth 6,77 6,83 9,49 9,49 12,13 15,2 17,25 19,45 19,6	Sec. Len 0.39 0.06 0.21 0.05 0.1 0.2 0.25 0.45 0.15	0.39 0.06 0.26 0.05 0.1 0.2 0.25 0.45 0.15	AW AW AW AW AW AW AW AW AW AW	CC 4R2 (length 0.05) added to this section attached to bot. of sect. 1

A section is defined by a unique (for the core), sequential section number and a section length in cm. The corresponding top and bottom depths of the section are automatically calculated.

There are several other input forms for entering data collected during a drilling project. For example, input forms for samples taken from cores or sections, forms for capturing lithological information, and input forms for capturing drilling engineering data.

nository M _★ marks:	r. <mark>Reques</mark> MSP1000	<u>: Part</u> .★ A _	Code:	Obser RA	ver: Core: • 12	Sec 1	tion: H	alf: Tor	25	<mark>ot (cm)</mark> ¥ 38	<mark>fol (cc):</mark> 78 - <u>⊺o</u>	p MBSF(m):	Top	4CD (r
ample	Repos	Request	Part	Code	Observer	Expedi	Site	Hole	Core	Section	Half	Тор	Bot	Ve
31148	68 SBM	MSP1000	A	27.	RA	310	5	A	12R	1	W	25	38	78
31148	74 SBM	MSP1000	A	64328	RA	310	5	А	12R	1	W	44	60	96

The sample-input form is used to capture data for samples that have been taken from core material.

	Daily-Drilling-Report smart DIS
ADER CASING	OVERVIEW ACTIVITIES TECHNIC TOOLS TOOLSTRING_BHA PUMPS MUD MUD_GAS MUD_ADDITIVES MEASUREMENTS REMARK Site: Hole: OVERVIEW - General Information
Report Date:	Report Number Shift From: Shift To: Begin (h:m): 1 1 1 1 1
	Start Depth (m): End Depth (m): Drilled Length (m):
	Start True Vertical Depth (m): End True Vertical Depth (m): True Vertical Drilled Length (m): Drift (degrees):
	Days Coring: Core Recovery (m): Total Core Recovery (m):
	Main Activity:
	Drilling Engineer: Controlling Engineer:
	Drilling Method:
n ann an tha tha sea an tha	

The input form for the daily drilling report is a very complex form for capturing the engineering parameters generated while drilling, for example the casing, the bottom hole assembly, the pumps, etc. This type of information can be used to generate printable reports with diagrams.

Daily-Drilling-Repo	<u>nt</u>				Pag	0 2
Expedition: 5044	site:	1 8	ole: /	Date :	3/1 3/2007	No.: 1
Calling Galog Ma. 1				511		
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Outer Diseaser 28	idf;	WWII The christian		40 j	Om	110.000
Gunder		Graite				C d Martin
Type satisfy		Connection Type		1	Sec.	
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Brait Depth / Cornard Head		find Depth / Casing	illin de	1708		C.Olacia C.olacia Cento 1103
facer Diseaser 10	145	WAII Thickness		67.5		
Gradient		Grade #155				
Type Interna		Connection Type		5	2	1
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Chiling Ito. 3						1
Start Lingthy / Centers Weak 0		End Dep # / Casing	an ce	1982		
Cuter Disetter 225	28	Wall Thickness		341		
ficident		Grade 6.55		1		1
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dract Depth (General Hood) 11		End Depth / Casing	Shine	64116	1	Carnel Mar
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Ģeneli net		Grade CR121.0	88		488.7 -490.88%	HULZI - HOLIN HLOFFSH COSTH
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Centere Head ann Ce	ment Rottan	041.00	Note Gam	MW 8.5		
Cassing Mrs. 8	And Charling	NO STRAE	an United St	in the second		dista allas
deart Depth i Connece Head 64	380	End Depth / Casing	Shoe	63.22	890m 😪	Carls 110-308
Outer Diseaser 50		Wall Trickovas		20		
Gradier		Grade		4		
Type stroutiner		Connection Type				
Carrow Head	ment Battar		HILF DWG	ster B.D.		

The Picture Archive input form is used to archive photographic images collected during the drilling project. A thumbnail-image of the archived image is displayed within the form.

DIS-Picture Archive		
	Picture Archive	smart DIS
Picture Archiving For	m	
Archive new picture	or adapt meta data of already stored picture	310 5 A Exp. / Site / Hole
	e.g. core scan / box e.g. box / section-	id number of that
	Type: SS 💽 Object 21	No1
in the second se	Source: SlabbedCoreScans\	automatically generated
Starting Depth: Ending Depth: Storage:	3.48 enter depth of lower picture • select the core box number	border
Title:		Select Picture
Remarks:		Annotate Picture
Dat	a Record	Form
H H Nr. 1	5 New Cancel Edit	Delete

Within the ExpeditionDIS there are a number of categories of image. An image can also be associated with a specific object in the database and can have a version number.

For example, an unrolled (360°) image of a core/section has the type 'UnrolledCoreScan' (CS) and a slabbed scan of a core/section half has the type 'Slabbed Scan' (SS), an image of a working box has the type 'WorkingBox' (BW), a core overview picture has the type 'CoreOverview' (CO), a picture of a cutting sample has the type 'Cutting' (CU) and a cuttings profile image has the type 'CuttingsProfile' (CP). Images that are not directly associated with a specific core, section, core box or cutting are archived with the type 'Undefined' (UN).

If you click on the 'New' button to archive a new image you have to select the type of image first, then you can select the image object (core, section, cutting, core box) from the object-listbox. The ExpeditionDIS automatically checks what cores, sections and boxes are stored in the database. You cannot archive an image of a core or section if the core or section is not already entered into the database.

You also have the option to enter additional, optional data, for example, the start and end depths of the image, a title and some comments.

Once the information is entered in the form, click the 'select picture' button. The information is saved to the database and you are then prompted for the name and location of the image to be copied to the ExpeditionDIS-server file system. A file/image selection window appears on the screen, so that you to select an image that is stored on your computer or local network.

Note that the original image is not moved. The ExpeditionDIS makes a copy of the original image, converts it to JPEG format, renames it according an appropriate naming convention, reduces the resolution to make it suitable for web access, and creates a thumbnail image also.

Please contact smartcube, if you require the system to be configured so that the original images are renamed and archived as part of the process.

As an example of the naming convention, if the original image is a slabbed scan of a section with the filename 'MySlabbed.bmp' and you import it into the ExpeditionDIS as a slabbed scan (type=SS) of Expedition 310, Site 5, Hole A, Core 10, Section 2 then the resulting filename of the imported image is SS_310_5_A_10_5_2_1.jpg, and the name of the thumbnail image is SS_310_5_A_10_5_2_1_thn.jpg.

The naming convention is always Type, Expedition, Site, Hole, Core, Section, Version-Number (for a section image) or Type, Expedition, Site, Hole, Core, Version-Number (for a core image).

Undefined images are always related to a borehole, so the naming convention is Type, Expedition, Site, Hole, [what ever you have entered as object], Version-Number

Note that the way in which an image is archived depends on the configuration of your ExpeditionDIS. The standard version of ExpeditionDIS stores only the information describing the image in the database and the image itself is stored in specific sub-folders of the ExpeditionDIS server file system.

There is no need to use this form to archive the core scans that are done with smartCIS because the smartCIS software is able to connect to the ExpeditionDIS database automatically.

A simple annotation program is available to view the archived images and to make some annotations on the images if you click the 'annotate picture'-button.

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speeter Feature	DB Annotation Stating depth Ending depth Stating depth Stating depth Stating depth Stating depth Stating depth Stating depth	
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Ine		Annotation 7 abs depth 3 m rel depth 0.4 cm
Bart Start SmartDIS_Tutorial Service New Jersey - DIS	Drilling Information Syste 1 55_310_5_A_2_1_1.jpg	> 51 2:51 PM

Please note, that the annotations will be stored in the database, they can be printed on the images but they will not change the original image.

This tool can be used to mark special features on the core/section or to add some comments to the image.

There are also input forms for entering the lithological description of cores and sections.

all and a second	Taniu		Site:	26 -	<u>Hole:</u>	A	<u>Core:</u>	O <u>section</u>	ր		General Con			ION ONT -	
Section Unit:		2	Top Dept	Of Secti	ion (cm):		51	To	p Depth (mbs	<mark>1).</mark> [12.57	imbsi);	19.87 [mcd]:	12.57	
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Unit Description	<u>n:</u>	学的重要	dan ka			的问题		de Venne de la s	化偏向电路		Server,			R. F. Forder,	
eneral description	on: Volcanic	lastic silts	tone												15.165
and the set of the set of	dend 19 beer 10					in addition on a	ind at the state of a	rine of a station							
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	and the second s														
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Minerals: clay; dolo Fossils: Basalt peb	lomite obles; Echir	oderm													_
Minerals: clay; dolo Fossils: Basalt peb	lomite bbles; Echin	oderm													
Minerals: clay; dolo Fossils: Basalt peb General Commen	lomite bbles; Echir	oderm							Kara y Havana			a al m-0 1.4			
Minerals: clay; dolo Fossils: Basalt peb General Commen Gedding:	lomite obles; Echir mts: [Para	oderm	d					Core Disturband	20: Islightly	Ŷ		Structure	altern	ate bedding	
Minerals: clay; dolo Fossils: Basalt peb General Commer Bedding: chnofossils:	lomite bbles: Echin mts: Para Plan	ioderm Ilel bedde	d	1982 - 2004 1976 - 2004 1976 - 2004			<u> </u>	Core Disturban	:e: [slight];	y	<u> </u>	<u>Structure:</u>	altern	ate bedding	
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It is possible to link and view the associated scanned handwritten lithological log.



The ExpeditionDIS – Data views

Data views are a useful way to display data for the user. The data views are customisable and can be used to display information resulting from running queries on the database.

The quickest way to access all standard views is to open the Shortcuts->Views- menu from the toolbar.

utton on the toolbar to define a subset of records for export. Use the export button on the toolbar to export sel	ected data.
ACEX 💉 Site: 2 🖌 Hole: A 🗹 CORES / SI	
	ECTIONS
ype Section Section Length Curated Length Top Elev. Bottom Elev. MCD Top Data Operator CC	建設計会合 例
4 0.1 0.1 271.59 271.69 273.41 AW yes	
	F (1.) R (2.)
CORE TYPE SECTION INT'LENGTH REV.LENGTH TOP DEPTH BOTTOM DEPTH MCD TOP	ANALYST
X 5 0.11 0.11 254.71 254.82 256.53	BR
X 1 1.5 1.5 254.8 256.1 256.42	AW
X 2 1.51 1.51 256.1 257.81 257.92	AW
X 3 1.37 1.37 257.61 258.98 259.43	AW
X 4 0.09 0.09 258.98 259.07 260.8	AW
X 1 1.51 1.51 257.6 259.11 260.54	AW
X 2 1.51 1.51 259.11 280.62 282.05	AW
X 3 1.4 1.04 260.62 261.66 263.56	AW
X 4 0.24 0.24 261.66 261.9 264.6	AW
X 5 0.25 0.25 261.9 262.15 264.84	AW
X 1 1.51 1.51 262.6 264.11 264.48	AW
X 2 1.18 1.18 264.11 265.29 265.99	AW
X 3 0.16 0.16 256.29 256.46 257.17	AW
A 1 1.51 1.51 207.5 209.11 209.42 Y 0 4.5 4.5 0.004 0.004 0.0004	AUU
A 2 10 10 209.11 270.01 270.93 Y 9 000 000 000 20164 2014.50 209.00	A100
x 4 0.4 0.4 0.4 27150 27180 272.45	ANN
	1000
Data Record Split's	Form

The image above illustrates a typical ExpeditionDIS data view. On the top you have text boxes to display the entries of the current selected record and in the middle you can find a spreadsheet-like list that displays all records for the selected hole.

			Da	ata-View	196		smart DIS
e the filter butto cpedition Site 302	on on the toolb Hole 2 A	ar to define a sul	oset of records for e	xport. Use the expo	ort button on the toolb	ar to export selected da	ata.
YPE NAM	E anticipation of	NUM	CREATOR FILEN	AME	a starting and	3	ring al
S 23 2	-	1	SS 30	2 2 A 23 2 1.ipg			
11/12/200	94 SlabbedC	oreScans\			arge image		
TYPE	NAME	NUM	C DATE	CREATOR	FILENAME	SOURCE	Im age Url
SS	60_5	1	11/14/2004		SS_302_2_A_60_	5_1.jpSlabbedCoreScans\	.\Slabbed
SS	61_1	1	11/14/2004		SS_302_2_A_61_	1_1.jp SlabbedCoreScans\	.\Slabbed
SS	61_2	1	11/14/2004		SS_302_2_A_61_	2_1.jp SlabbedCoreScans\	\Slabbed
SS	61_3	1	11/14/2004		SS_302_2_A_61_	3_1.jpSlabbedCoreScans\	\Slabbed
SS	62_1	1	11/14/2004		SS_302_2_A_62_	_1_1.jp SlabbedCoreScans\	\Slabbed
6	62_2	1	11/14/2004		SS_302_2_A_62_	2_1.jpSlabbedCoreScans\	\Slabbed
SS		4	11/14/2004		SS_302_2_A_62_	3_1.jpSlabbedCoreScans\	\Slabbed
SS SS	62_3	2				A A DOLLER JOAN CARDA	\Slabbed
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88 88 88 00 88 88 88 88 88	62_3 62_4 34-X 47_1 47_2 47_3 47_4 47_4	1 2 1 1 1 1 1	11/14/2004 11/13/2004 11/13/2004 11/13/2004 11/13/2004 11/13/2004 11/13/2004		\$\$_302_2_A_62 C0_302_2_A_34 \$\$_302_2_A_47 \$\$_302_2_A_47 \$\$_302_2_A_47 \$\$_302_2_A_47 \$\$_302_2_A_47 \$\$_302_2_A_47	4_1, p StabbedCoreScans(X_2, p CoreOverview) (1_1, p StabbedCoreScans) (2_1, p StabbedCoreScans) (3_1, p StabbedCoreScans) (4_1, p StabbedCoreScans)	\CoreOve \Slabbed \Slabbed \Slabbed \Slabbed
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You can use the filter facilities to search for image and core data but you cannot edit or add any data using a data view.

The ExpeditionDIS – Data reports

Data reports are used to display the data to the screen in a format suitable for printing. There are several predefined data reports available, some as tabular output, others as images and diagrams. The quickest way to access all standard reports is to open the Shortcuts->Reports - menu from the toolbar.

CORE / SECTION SUMMARY	Arc	tic Coring	Expe	dition	(ACE	X)			IFI	SIO
Expedition: 302 Site: 2	<u>iole:</u> A				69	Fotal Coi	re Recove	ery: 73.1	5 % SCOR	a Cparator
Core Overview Picture:	Core	On-Deck	Co To Death	re C p Bo p(m) Dep	ore ttom ttp:(m)	Length Cored (m)	Top MCD Offset	Top Depth (M.CD)	Length Recovered R (m)	Core lecovere
	1-X Remarks	8/19/2004	0		1.5	15	0.28	0.28	1.28	85.33
EXP S	i ventar na									
3 B	Section Num	Liner Curated Length Length	Top Depth	Bottom	Top Depth MCD			Section Re	marks	
0	1	1.19 1.19	0	1.19	1.19			80-90:4 m	tzone s	
2	3 <u></u> (1		i anto	12				
SITE TELES										
2										
2 HOLE										
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A A A										
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2 IOLE A ORE										
2 OLE A DRE 1 X										
2 HOLE A 1 X										
HOLE A CORE 1 X										
2 HOLE A CORE 1 X										

This is an example of a core overview report including the core overview image.

This an example of a section-unit report including a section image.

Image: Note of the state of the s	SECTION_OVERVIEW_REP_302_4_C	<u> </u>
Section Picture Section Numerod Processing	Arctic Coring Expedition (ACEX) Expedition: 302 Site: 2 Hole: A Core: 1	-
1 1.19 0 1.19 0.28 00-90:4 # bore Section Units 1 0 0 0.28 0.19 0.28 0.90:4 # bore UNIT TOP TOP<	Section Picture Section Liner Oursted Top Bottom T-Depth Section Remarks	
	Section Picture Section Liner Curded Top Bottom T-Depth Section Remarks 1 1.19 0 1.19 0.28 80-90:4 ft bote 6 Section Picture Section Picture Section Units UNIT TOP DEPTH TOP DEPTH UNIT MAJOR LITHOLOGY LITH. INTERVAL DEPTH MCD CLASS TVMT MAJOR LITHOLOGY LITH. INTERVAL DEPTH MCD CLASS TVMT MAJOR LITHOLOGY LITH. INTERVAL DEPTH MCD 0.28 Section Units UNIT TOP DEPTH TOP DEPTH UNIT UNIT MAJOR LITHOLOGY LITH. INTERVAL DEPTH MCD 0.28 Section Units UNIT TOP DEPTH TOP DEPTH WITT MAJOR LITHOLOGY LITH. MCD, state to the state of th	

The ExpeditionDIS – Tools

The ExpeditionDIS contains several tools for data visualization or data export to the local Intranet or the Internet.

The Litho-Profile-Builder can be used to generate automatically a lithological profile of the borehole from the information entered in the database.



The user selects a hole and a depth interval and the Litho-Profile-Builder generates an interactive diagram that can be used for visual data navigation through the data in the data base. The user can move the mouse over the graphic in the left frame of the form and the corresponding data of the selected lithological unit is displayed in the right frame. The scanned handwritten initial description of the geologist or other related information can be accessed through links in the right frame.

If the user clicks on a selected unit the detailed section, core or cuttings profile will be displayed.



The image above illustrates a detailed core profile. The different sections of the core are displayed along with thumbnail images of the core sections. The data of the selected core, section and image is displayed in the right frame.

The core overview image is available from the link in the right frame.



The section detail image can be displayed by clicking on the thumbnails in the left frame.



It is also possible to link/display images of core boxes or annotated images.

The Sample-Profiler can be used to visualize the count and the amount of samples that are taken from the core material of a section.

S: Section-Sam	ole-Profile-Builder v.: 2,1		
1	Generate Section-Sample Profile		
			smart DIS
	^D em	Section-Sample Profile	
		data of section:	
	-10 cm	Expedition: 302 Site: 4 Hole: C	
	20 cm	Core: 5 Section: 1	
		Depth (MBSF,m): 18.57 - 19.32	
	-30 cm	<u>Depth (MCD,m):</u> 17.09 - 17.84	Hole: 302_4_C
14		Depth Interval(m): .75	Core:
	-43 cm	data of selected sample:	5.
		Top Depth(cm): 0 Bottom Depth(cm): 75	Section:
	-sucm.	Depth(MBSF): 18.57 - 19.32	
	-60 cm	Volume: 300	Display Profile
alter.		Request MSP0011 A	
	-70 cm.	Investigator: John King	Display Next Display Previous
	_75 cm	Analyst. WH	Print
		*move the mouse over the profile in the left frame to update information for selected sampl (update update balf cample, grace, archive ba	le
		sample, brown: whole round sample)	Show List

This tool visualizes a core/section in the left frame and displays (the colour depends on the type of sample) the amount and position of the samples that are taken from this section. The data about the section and the selected sample is displayed in the right frame.

DIS: Section-Sam	ple-Profile-Built	der v.: 2.1			_				
*	Generate Ser	ction-Sample Profile							
	i di wasa (gan	aonantsissantsis <mark>a (basans</mark>	aaneysiisiin	新闻的	告日) 民族的名	2 E.C.A.19	ine an aight stature	en an	
	Com I		^	data of s	ection:				 smart DIS
	= 10.cm		Ī	Expeditio Depth (N	<u>on:</u> 302 <u>Si</u> <u>MBSF,m):</u> 18	<u>te:</u> 4 <u>Ho</u> 3.57 - 19.	le: C <u>Core:</u> 5 32 <u>Depth (MCD</u>	<u>Section:</u> 1 <u>m):</u> 17.09 -	
	-20 cm		₴. [17.84 samples:					
				Top (cm)	Bottom (cm)	Volume	Top_MBSF (m)	Request	Hole:
	- 30 cm			0	75	300	18.57	MSP0011	302_4_C -
耕利				4.5	5.5	5	18.615	MSP0082	Contractor
AT IN				5	6	5	18.62	MSP0016	Core:
ALLE MARKET	- 40 cm			8	10	10	18.65	MSP0008	5-
				8	10	10	18.65	MSP0002	1. San 2. San 2.
				11	12	5	18.68	MSP0082	Section:
	- 50 cm			15	16	2	18.72	MSP0009	
				16 16	18 17	20 5	18.73	MSP0027 MSP0082	11月1日
	- 60 cm			18	20	10	18.75	MSP0002	Display Profile
Lik				18	20	10	18.75	MSP0008	and the second
				20	22	20	18.77	MSP0031	Display Next
	- 70 cm			23.5	24.5	5	18.805	MSP0082	Display Previous
	75 cm			26.5	27.5	5	18.835	MSP0082	- 网络拉拉罗德斯
				28	30	10	18.85	MSP0008	Print
	1.2			28	30	10	18.85	MSP0002	1998年4月28日
				30	31	2	18.87	MSP0009	(高麗語)(日本)
AT L				32	34	10	18.89	MSP0089	Show List
				32.5	33.5	5	18.895	MSP0082	North Contract

This tool also supports a list-view to select the samples by depth and volume or sample request in the right frame.

The Borehole-Measurement (BHM)-Profiler can be used to display a profile and diagrams of borehole measurements.

Generate Borehole Measurement Profile		
This interface is used to display a profil	e of the selected borehole measurement (BHM)	smart D
Well: 302_2_A 💽 🗖 Use section de	th instead of litho units for the depth scale	Display BHM-profi
Gamma-Ray Temp. DTR	caliper mixed Profile of Measure	of Borehole prements
depth of borehole	meta data of sel measurement:	ected borehole BM0003
T 000000 000000000000000000000000000000	<u>Starting Depth:</u> <u>Ending Depth :</u>	0 254
	Drill Section: n. Measurements:	a BGL_TEMP-SP-
200m _	<u>Company:</u> GFZ	Potsdam
300m	<u>Parameter:</u> temp <u>Time:</u> 00:00	erature
	Total Time: 7h	

If you move the mouse over the line of a borehole measurement in the left frame, the basic data of this measurement is displayed in the right frame. If you click on a selected borehole measurement, and the data is included in the database you will get an interactive curve of the measurement.

Web Tutorial V1.0

ExpeditionDIS



If you move the mouse over the curve in the left frame, the data of the selected point is displayed at the bottom of the right frame.

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