Logical data model

Calibrated MSCL scans (41 csv/txt files)

SECT NUM	Number of measured sections
SECT DEPTH	In-section depth of data points
CT	Core diameter
Den1	Density log
MS1	Magnetic susceptibility log
NGAM	Natural gamma radiation log

Core sections metadata (1 csv/txt file)

Core_run	Nr of the core run
Section_nr	Nr of the core section
Combined_id	Combined Id
Drillers_top_depth	Section Top Depth
Drillers_bottom_depth	Section Bottom Depth
Comment	Additional Information

Core lithology (1 csv/txt file)

Section_ID	Core section
Top section depth	Top section depth of interval
Bottom section depth	Bottom section depth of interval
lithology	Lithology type of sediment

MSCL-metadata (1 csv/txt file)

Measurement ID	Measurement session ID
MSCL_Section_Nr.	Nr of measured sections
Core_run	Nr of the core run
Section_Nr	Nr of the core section
Combined_id	Combined Id
Drillers_top_depth	Section Top Depth
Drillers_bottom_depth	Section Bottom Depth
Used data	Type section

Core quality (1 csv/txt file)

Section_ID	Core section
Top section depth	Top section depth of interval
Bottom section depth	Bottom section depth of interval
Core_quality	Quality of recovered sediment

Legend

File category

(purple)	Input data
(purple/yellow)	Intermediate step
(yellow)	Output

Feature category

(blue)	Measurement-metadata
(green)	Core-metadata
(beige)	Depth-data
(red)	Log-data

Combined cleaned MSCL-Data (1 csv/txt file)

Composite_depth	Corrected composited total depth
SECT NUM_MC	The number of measured sections starts at 1 at the beginning of each measurement session.
SECT DEPTH	In-section depth of measured data points
CT	Core diameter
Den1	Density log
MS1	Magnetic susceptibility log
NGAM	Natural gamma radiation log
Core_quality	Quality of recovered sediment
Lithology	Lithology type of sediment
Mes_ID	Measurement session id
Section_ID	Id of the measured core section

MSCL-calibration log (1 csv/txt file)

Measurement ID	Measurement session ID
Log	Type of MSCL-Log
Parameter	Name of Parameter
Unit	Unit of parameter
Explanation	Additional Information

Combined MSCL-calibration data (1 csv/txt file)

SECT NUM_MC	Cal = calibration section
SECT DEPTH	In-section depth of measured data points
CT	Core diameter
Den1	Density log
MS1	Magnetic susceptibility log
NGAM	Natural gamma radiation log
Mes_ID	Measurement session id

Wireline logs (1 csv/txt file)

depth	Depth of data point
Logs (not defined yet)	Data of corresponding logs

Result of descriptive statistical analysis of MSCL-data (not yet clear)

Need to be defined	Need to be defined

Result of descriptive statistical analysis of wireline data (not yet clear)

Need to be defined	Need to be defined

Result of PCA and clustering of MSCL-data (not yet clear)

Need to be defined	Need to be defined

Result of PCA and clustering of wireline data (not yet clear)

Need to be defined	Need to be defined

Catalog for log data-based classification of unconsolidated sediments (not yet clear)

Need to be defined	Need to be defined