

Data, data, data SUZIE MACLACHLAN





Data issues

1. Providing online datasets

2. Combining logger data and images

3. Checking data quality





BOSCORF Curatorial Policy

Mission Statement

The British Ocean Sediment Core Research Facility (BOSCORF) will:

- 1. Provide advanced state-of-the-art core logging and analysis facilities for community use.
- 2. Serve as the UK national deep-sea core repository and national archive for marine, lacustrine and terrestrial palaeoenvironmental records.
- 3. Provide long-term storage of sediment cores collected by NERC ships and NERC-funded researchers, under controlled conditions to ensure optimum preservation.
- 4. Maintain a database of sediment core holdings and promote the secondary usage of the core material in its care amongst the scientific community.
- 5. Develop new innovative methods of automated non-destructive core analysis.
- 6. Provide training in state-of-the-art core analysis, advanced core logging techniques and core data visualisation.
- 7. Contribute to global digital archives of training images and online curatorial resources to provide high quality training aids.
- 8. Be responsible for long-term data stewardship of core-based data relating to cores in its care and from core-based national marine programmes.
- 9. Represent the Natural Environment Research Council at meetings of seafloor and lakebed sample curatorial facilities at an international level.





BOSCORF Curatorial Policy

Mission Statement

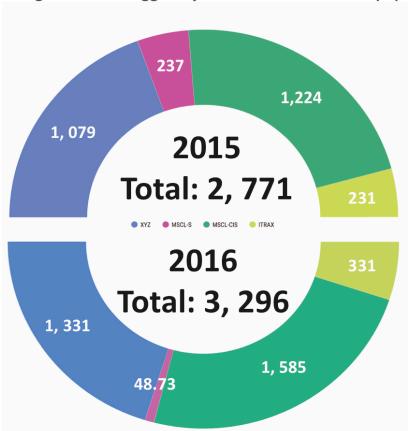
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Length of cores logged by BOSCORF Instruments (m)



2012 - 564 m

2013 - 433 m

2014 – 1301 m



Archive scan data

Total:

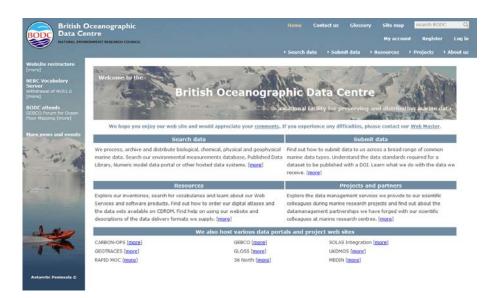
MSCL-CIS 2456.28m

MSCL-XYZ 2185.99m





Collaboration with BODC



To make available MSCL-XYZ data and MSCL-CIS images

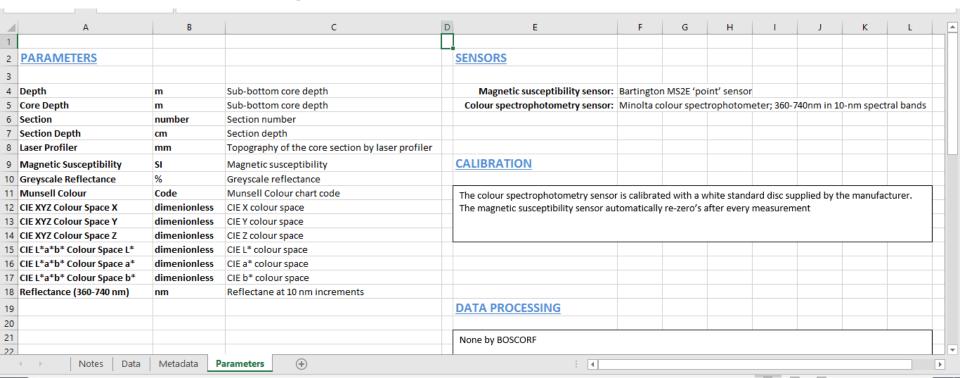
Linking BOSCORF data with other oceanographic data and cruise reports

To increase our discoverability





Template for MSCL-XYZ data













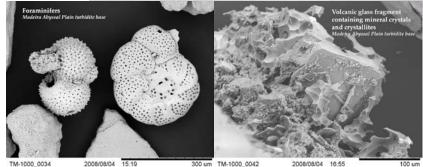












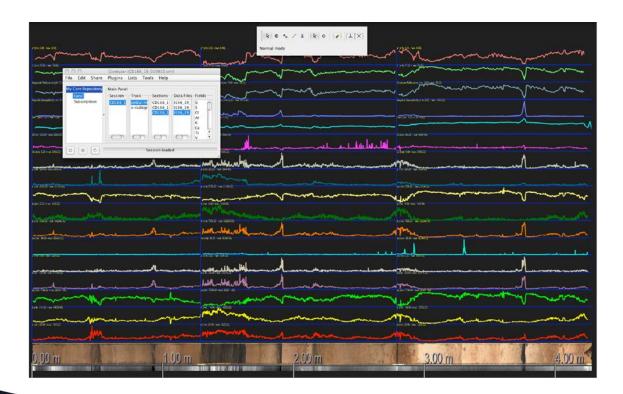
ItraxPlot – data quality checks ItraX-PLOT - Itrax Data Presentation Software - V2.34 - Southampton Oceanography Centre File Zoom Optical Image Radiograph Element Data Define Region etc Section Edit Colour and Data SetUp Help CD166-19Cr S int. Ca int. Mn int. Fe int. K int. Ti int. Sr int. Zr int. 4.0 cm 2 cm 100000 2000 3000 50 0 200 600 10000 30000 300 4.00e+5 8.00e+5 3000 5000 40000 10000 30000 50000 60000 1000 Section: 2 250 750 1000 1250

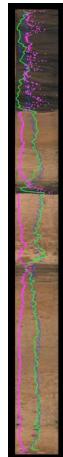
Core: CD166-19Cr	Section: 2		User: SM	Date: 04/06/2014
X-Ray tube: target	Line camera signal 213149 at 25 ms		Filename: CD166_19_2_Cr	Data produced by the SOC Itrax
XRF Conditions	30 kV 30 mA		Step Size: 500 microns	Count-time: 30 seconds/increment
X-radiograph Conditions	45 kV 40 mA	Store	Step Size: 500 microns	Dwell time: 500 ms/increment
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Corewall - Corelyzer















Software needs

BOSCORF Requirements:

- Handling of MSCL, ITRAX and all our other digital data formats
- Core Sediment splicing and cropping
- Core Sediment depth referencing using millimetre scale
- Core Sediment storage
- Core Sediment visualisation
- Depth referencing of all data and images in one common display
- Advanced loading for setting up all the above data types





iPoint software







iPoint : Data & Image Storage Platform (Specific to BOSCORF)

Included:

An add-on so we can quickly load the ITRAX and MSCL-XYZ data Millimetre scale for data and image viewing to suit our requirements

offsite requirements

Charting package to view data as a chart or crossplot using binning and regressions Calculated Statistics

Handling of Sample images like CT scans or SEMs

Specific Data Management module for searching, viewing and finding data

Advanced Core Sediment loading tools

Automated data loading for MSCL and ITRAX data

Raw document library to link all your original data and reports

QC and Standardization Tools



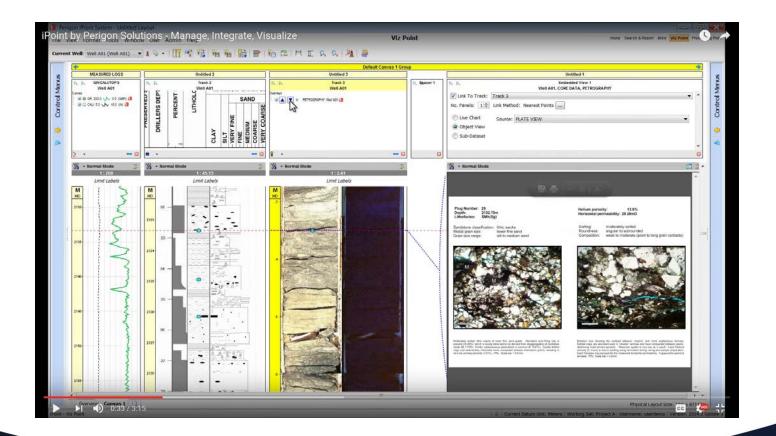


Other features (BOSCORF are currently not buying):

- ArcGIS for map viewing
- iPointWeb for online data viewing
- Cross section and correlation tools
- Thin bed analysis
- Annotations tools
- Integration adapters

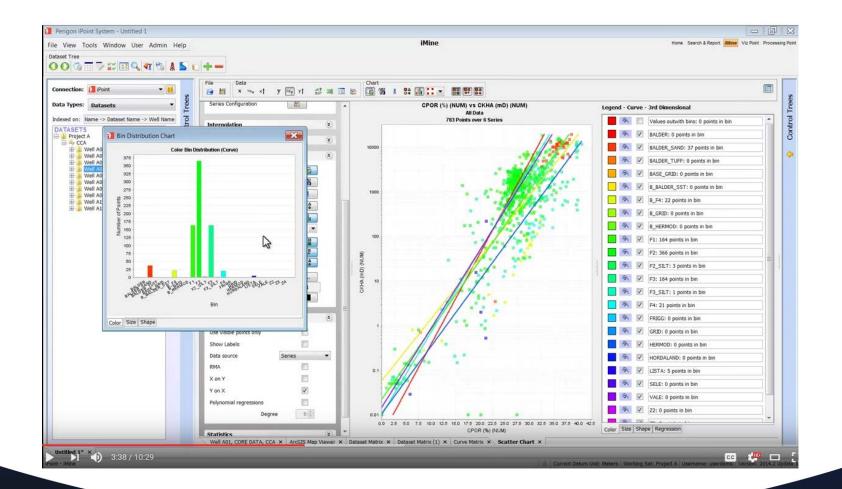






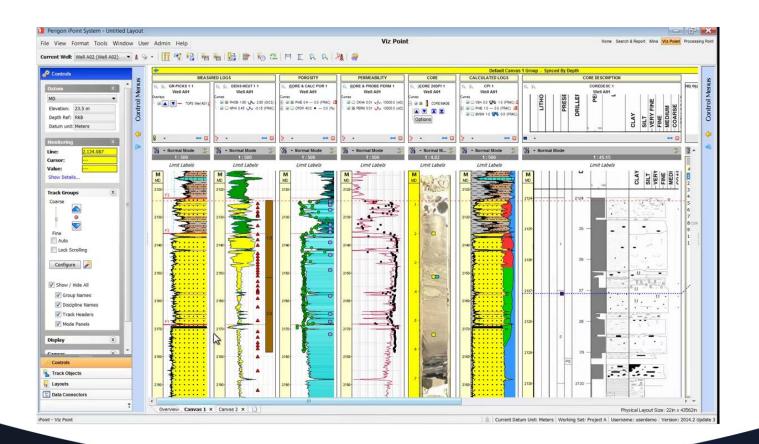






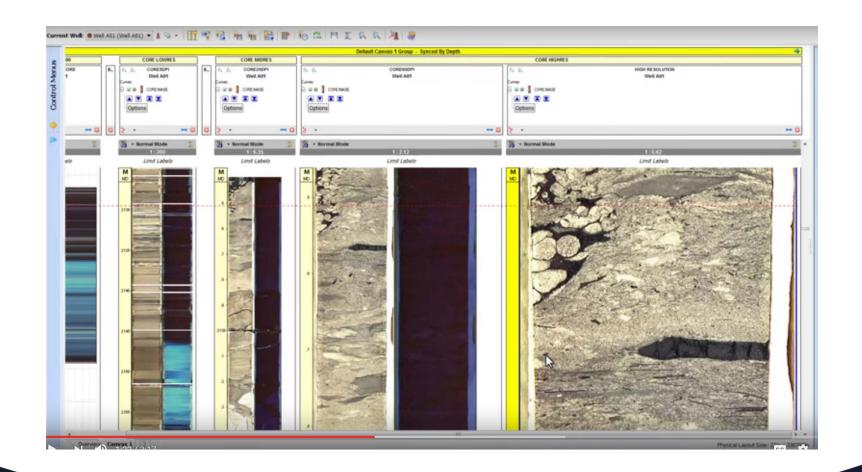
















http://www.perigonsolutions.com/

https://www.youtube.com/watch?v=065w_Jvc0Hc

- Introducing iPoint's Visualization Suite



