ODP/IODP Well Logging Data

This list includes all the possible data types (wireline and logging while drilling) available to the user in the Integrated and International Ocean Drilling Program. Depending on the logging plan carried out at each hole, some of them may not be available at the selected hole.

To access the Scientific Well Logging Database (LogDB): <http://mlp.ldeo.columbia.edu/logdb/scientific_ocean_drilling/>

To access the ODP/ IODP timeline:

<http://mlp.ldeo.columbia.edu/data/timeline/>

To create a custom plot of the logging data:

<http://mlp.ldeo.columbia.edu/data/logplot/>

To use the well logs / seismic integration tool:

<http://mlp.ldeo.columbia.edu/data/iodp_synthetics/>

For a detailed description of the tools used in the IODP: <http://mlp.ldeo.columbia.edu/research/technology/>

For a detailed description of data reduction and QA/QC in the IODP:

<http://mlp.ldeo.columbia.edu/research/facilities/logging-data-processing-qaqc/>

**Borehole Electrical Images (Wireline)**

Electrical images of the borehole acquired by the Formation MicroScanner (FMS). Data reduction required to convert the electrical current traces recorded by 64 sensors into a color-scale image representative of the resistivity changes in the formation. DLIS, GIF, and ASCII formats.

**Borehole Electrical Images (Logging While Drilling)**

Electrical images of the borehole acquired by the geoVISION tool (RAB, Resitivity at the Bit). Data reduction required to convert the electrical current traces recorded by three electrodes into a color-scale image representative of the resistivity changes in the formation. DLIS and GIF format.

**Borehole Acoustic Images**

Acoustic images of the borehole wall acquired by the Ultrasonic Borehole Imager (UBI). Data reduction required to convert the transit times and amplitudes acquired by a rotating transducer scanning the borehole wall into a color-scale image representative of the changes of the shape of the borehole. DLIS and GIF format.

**Borehole Seismic Data**

Seismic data acquired with the Vertical Sonic Imager (VSI) tool (LDF format). Individual shot records and stacks for each station converted at Lamont (SEGY format).

Shot and stack summary tables. ASCII format.

**Depth Matches**

List of depth shifts applied to each logging run to match the depth of the reference run.

**Digital Log Interchange Standard (DLIS)**

Industry standard format introduced by the American Petroleum Institute in 1991. Acquisition format of all IODP well log data. Processed data also available in this format.

**Documentation**

Processing notes for each logging data type processed (ex. standard, images, borehole seismic).

**Log Plots (Original Data)**

Original field plots produced by Schlumberger on the *JOIDES* Resolution. PDF format.

**Log Plots (Processed Data)**

Plots of the data processed at Lamont. PDF format.

**Third Party Tool Data (Magnetic Susceptibility, Magnetic Field, and Temperature)**

Magnetic susceptibility data acquired by the MSS-B tool. DLIS and ASCII format.

Magnetic field data acquired by the 3-axis Goettinger Magnetometer (GBM). ASCII format.

Temperature / Pressure / Acceleration acquired by the TAP tool. ASCII format.

**Sonic Waveform Data**

Data acquired by sonic logging tools. DLIS format.

Data processing includes “unpacking”, gain correction, and depth matching. Binary format.

**Sonic Waveform Images**

Images produced from the processed sonic waveform data. GIF format.

**Standard Data (Wireline)**

Natural gamma radioactivity, resistivity, density, neutron porosity, sonic velocity, caliper, inclinometry, spontaneous potential, and logging parameters (tension, cable speed, elapsed time). ASCII format.

**Standard Data (Logging While Drilling)**

Natural gamma radioactivity, resistivity, density, neutron porosity, sonic velocity, caliper, magnetic resonance, and drilling parameters (rate of penetration, rotation rate etc.). ASCII format.

**Standard Data (High Resolution, Wireline)**

Standard data (gamma ray, density porosity, and resistivity data) acquired in high-resolution mode. ASCII format.

**Standard Data (Logging While Drilling)**

Standard data (resistivity) acquired in high-resolution mode. ASCII format.