- Data file name: MEBO\_raw\_temp\_data\_SiteB23702\_upper\_9\_m  
- List of investigators: Matthew J. Hornbach, Joshua Sylvester, Chris Hayward, Michel Kühn, Katrin Huhn-Frehers, Tim Freudenthal, Sebastian F.L. Watt, Christian Berndt, Steffen Kutterolf, Jannis Kuhlmann, Carina Sievers, Sophia Rapp, Kilian Pallapies, Ricarda Gatter, Leonie Hoenekopp  
- Release date for the data file: immediate release.  
- Data set title/description: MEBO raw temperature data at drill site B23702 down to 9 mbsf. These temperature data were acquired from the thermistor located on the MEBO sonic logging tool. As the sonic tool was pulled out of the formation and the pipe was racked, temperature was recorded, which is why there are sometimes several temperature measurements at a particular depth.  
- Instrument make/model: MEBO 70 drilling tool and sonic logger.  
- Station coordinates (decimal deg.) and station name: 16.5147 N, 61.96775 W, B23702-3.

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- Data file name: raw\_site\_15-1\_HyLO\_temperature\_data  
- List of investigators: Matthew J. Hornbach, Joshua Sylvester.

- Release date for the data file: immediate release.  
- Data set title/description: Site 15-1 HyLO thermal gradient probe data. This consists of the raw temperature data collected with the HyLO probe attached to the bottom 2 meters of a 3 meter long gravity corer deployed from the R/V Meteor. The probe consists of 8 thermistors spaced 0.18 m apart. The data includes temperatures recorded during not only probe insertion and removal of the seafloor but during transit down to the seabottom, and stops in the water column for calibration testing.

- Instrument make/model: HyLO probe with 8 thermistors spaced 0.18 m apart.  
- Station coordinates (decimal deg.) and station name: 16.50875 N, 61.97571. Site 15-1.

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- Data file name: raw\_HyLO\_Fincastle\_Lake\_Test  
- List of investigators: Matthew J. Hornbach, Joshua Sylvester, Chris Hayward.

- Release date for the data file: immediate release.  
- Data set title/description: Fincastle Lake Dock HyLO test. This consists of the raw temperature data collected with the 2 m HyLO probe that consists of 4 thermistors. The probe was deployed from a dock and achieved full insertion into the lake floor located approximately 1 m below the dock. The data show a change in temperature during probe insertion time and the thermistors approaching steady state values over an approximately 30 minute period. We used these data to measure the thermal response time of the thermistors and calibrate probe response. Since data are collected in a shallow lake in winter, the high thermal gradients are an indicator of seasonal changes (it is warmer deeper due to the time it takes for the cold temperatures in the lake water to propagate down 2 meters into sediment.

- Instrument make/model: HyLO probe with 4 thermistors spaced 0.25 m apart.  
- Station coordinates (decimal deg.) and station name:32.07244 N, 95.731468 Site 1.