

## Comments on APCT3 data in Exp331

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APCT3 operation was conducted throughout coring operations using HPSCS in Exp 331. Formation temperature of each hole was unexpectedly high, and sometimes it was extremely above 55 °C that is the upper limit of measurable temperature range of APCT3. Therefore the APCT3 operations in expedition 331 were limited to shallower depth except Site 0017. In addition, it was too hard to penetrate sea floor by HPSCS in Sites C0015 and C0016 and hence there is no data. Comments on formation temperature data are shown below.

### C0014C-1H

The temperature drop after piston shooting looks very small. No friction heat at shooting seemed to be occurred.

### C0014D-2H

Formation temperature is more than 55 °C and out of measurement range of APCT3. Data file is only shown.

### C0014F-01H

No comment.

### C0014G-01H

The small temperature anomaly at the mudline (sea floor) at ~2:14 would be a small local water flow.

### C0017B-01H

For mudline temperature, the temperature is stable from ~12:48. Please see as mud temperature between 12:48-12:52 (at moving from the mudline).

### C0017C-02H

For mudline temperature, the temperature is still going up. This indicates the mudline temperature is more than ~6 °C (at moving from the mudline).

### C0017D-01H

The mudline temperature is a bit unstable at the beginning. Please average temperature between ~6:03-6:14.

#### C0017D-02H

For mudline temperature, the temperature is stable from ~8:56. Please average between 8:56-9:03 (at moving from the mudline).

#### C0017D-03H

For mudline temperature, the temperature is stable from ~11:44. Please average between 11:44-11:53 (at moving from the mudline).

#### C0017D-07H

No comment.