**DCIF\_Task3-0\_BoreholeDamageTest\_Westerly\_Metadata.txt**

**Location Datafiles**

|  |  |
| --- | --- |
| **File Name** | **Pre-test heating temperature** |
| **DCIF\_Task3-0\_Location\_blockG.dat** | 600˚C |
| **DCIF\_Task3-0\_Location\_blockH.dat** | 400˚C |
| **DCIF\_Task3-0\_Location\_blockI.dat** | 200˚C |

Applied biaxial stresses are all 5.8 MPa

File content descriptions

|  |  |  |
| --- | --- | --- |
| Column#(s) | Title | Description |
| 1 | Time(s) | Logging time 1) |
| 2 | T0offset(s) | Determined source time against trigger time |
| 3-5 | x(m) y(m) z(m) | Source location  |
| 6 | Error(s) | Location error in travel time (RMS) |
| 7-9 | X Y Z | Ohtsu’s moment tensor classification parameters(computed from a moment tensor) 2) |
| 10 | RelativeAmp | Absolute value of the largest moment tensor eigenvalue |

1) Time stamp offset : 180s (Liquid nitrogen poured at T=180s in the file)

2) J. Geol. Res. 96, B4, 6211-6221, 1991

**AE animation/movie**

|  |  |
| --- | --- |
| **File Name** | **Pre-test heating temperature** |
| **DCIF\_Task3-0\_Westerly\_blockG\_AEmovie.avi** | 600˚C |
| **DCIF\_Task3-0\_Westerly\_blockH\_AEmovie.avi** | 400˚C |
| **DCIF\_Task3-0\_Westerly\_blockI\_AEmovie.avi** | 200˚C |

Applied biaxial stresses are all 5.8 MPa

Animation of located AE events in the sample over time.

**Temperature History Files**

|  |  |
| --- | --- |
| **File Name** | **Pre-test heating temperature** |
| **DCIF\_Task3-0\_blockG\_Thermocouple.TXT** | 600˚C |
| **DCIF\_Task3-0\_blockH\_Thermocouple.TXT** | 400˚C |
| **DCIF\_Task3-0\_blockI\_Thermocouple.TXT** | 200˚C |

File content descriptions

|  |  |  |
| --- | --- | --- |
| Column#(s) | Title | Description |
| 1 | Time(s) | Logging time  |
| 2-13 | Temperature | Temperature reading for channels 101-112 (in degree C) |

Thermocouple temperature readings as a function of time. Time T=0s is when liquid nitrogen was poured.



**DCIF\_Task3-0\_BiaxialStressVsVelocityAllDamagedSamplesAveVelocity.TIF**

Graphical presentation of the measured average P-wave velocities in the samples as a function of the applied biaxial stress. Different curves are for samples with different pre-heating temperatures which were used to induce a range of microcrack damage

**DCIF\_Task3-0\_Time vs AE rate and Cumulative Count summary.TIF**

Graphical presentation of the time vs AE rate and cumulative AE counts

**DCIF\_Task3-0\_PreCrackingTvsOnsetCuCupTemp.TIF**

Graphical presentation of the identified AE onset temperature as a function of the pre-test heating temperature which induced microcrack damage in the sample