1. Parallel Sensor Test

**Project US00503S**

**Date:** June 26th, 2010

**Report by:** Daniel Sponagle

**Staff:** Emily Data  
 Roger Sharpe  
 Scott Carlin  
 Jeremy Pierce  
 Shane Montechelle

**QuickLay Version** 4.00.04

**Common folder** V1.46

**UTM Coordinates** 696298E, 3646093N(WGS 84 / Zone 11N)

**Coil Azimuth:** 0° T

**Declination** 12E

**Results:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Coil | Coil Type | Serial # | Test Passed | Test Failed | Task For |
| P50 | Phoenix | 2121 | TEST1-A |  | Site Hx, Hy |
| P50 | Phoenix | 2131 | TEST1-A |  | Site Hx, Hy |
| P50 | Phoenix | 2196 | TEST1-A |  | Site Hx, Hy |
| P50 | Phoenix | 2203 | TEST2-A |  | Site Hx, Hy |
| P50 | Phoenix | 2231 | TEST2-A |  | Site Hx, Hy |
| P50 | Phoenix | 2233 | TEST2-A |  | Site Hx, Hy |
| P50 | Phoenix | 2239 | TEST1-A |  | Site Hx, Hy |
| P50 | Phoenix | 2242 | TEST1-A |  | Site Hx, Hy |
| P50 | Phoenix | 2243 | TEST1-A |  | Site Hx, Hy |
| P50 | Phoenix | 2248 | TEST1-B |  | Site Hx, Hy |
| P50 | Phoenix | 2254 | TEST1-B |  | Site Hx, Hy |
| P50 | Phoenix | 2388 | TEST1-B |  | Site Hx, Hy |
| P50 | Phoenix | 2393 | TEST1-B |  | Site Hx, Hy |
| P50 | Phoenix | 2394 | TEST1-B |  | Remote Hx |
| P50 | Phoenix | 2395 | TEST1-B |  | Remote Hy |
| Coil | **Coil Type** | **Serial #** | **Test Passed** | **Test Failed** | **Task For** |
| P50 | Phoenix | 2396 | TEST1-B |  | Remote Spare |
| P50 | Phoenix | 2444 | TEST2-A |  | Site Hx, Hy |
| P50 | Phoenix | 2447 | TEST2-A |  | Site Hx, Hy |
| P50 | Phoenix | 2448 |  | TEST2-A | FAIL |
| P50 | Phoenix | 2451 | TEST4 |  | Spare |
| P50 | Phoenix | 2456 | TEST4 |  | Spare |
| P50 | Phoenix | 2461 | TEST4 |  | Spare |
| BF7 | EMI | 7001 | TEST2-B |  | Site Hz |
| BF7 | EMI | 7005 | TEST2-B |  | Site Hz |
| BF7 | EMI | 7008 | TEST2-B |  | Site Hz |
| BF7 | EMI | 9107 | TEST8 |  | Spare |
| BF4 | EMI | 9115 | TEST8 |  | Spare |
| BF4 | EMI | 9119 | TEST8 |  | Spare |
| BF4 | EMI | 9122 | TEST2-B |  | Site Hz |
| BF4 | EMI | 9622 | TEST2-C |  | Site Hz |
| BF4 | EMI | 9623 | TEST2-C |  | Site Hz |
| BF4 | EMI | 9624 | TEST2-C |  | Site Hz |
| BF4 | EMI | 9639 | TEST2-B |  | Site Hz |

Notes:

P50-2448: This coil was flagged as bad and continued to track badly on this PST (see Test2-A). Unit will be returned to office for repairs.

P50-2461: Always shows as completely overscaled despite numerous tests (see Test 3-A). Coil will be retested. The following day, it was determined that the problem lied within the spider. One side has bad z-port.

BF4-9119: Always shows as completely overscaled despite numerous tests (see Test 3-B). Coil will be retested. The following day, it was determined that the problem lied within the spider. One side has bad z-port.

One spider has bad z-port. It has been flagged.

* 1. Low Frequency Coils ... Test 1-A

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2121 | 9E8D |  |
| 2 | Phoenix | P50-2131 | 9E8D |  |
| 3 | Phoenix | P50-2196 | 9E8D |  |
| 4 | Phoenix | P50-2239 | 9EBD |  |
| 5 | Phoenix | P50-2242 | 9EBD |  |
| 6 | Phoenix | P50-2243 | 9EBD |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test 1-A

Serial Events: 9E8D\_20100626.1821\_2  
 9EBD\_20100626.1826

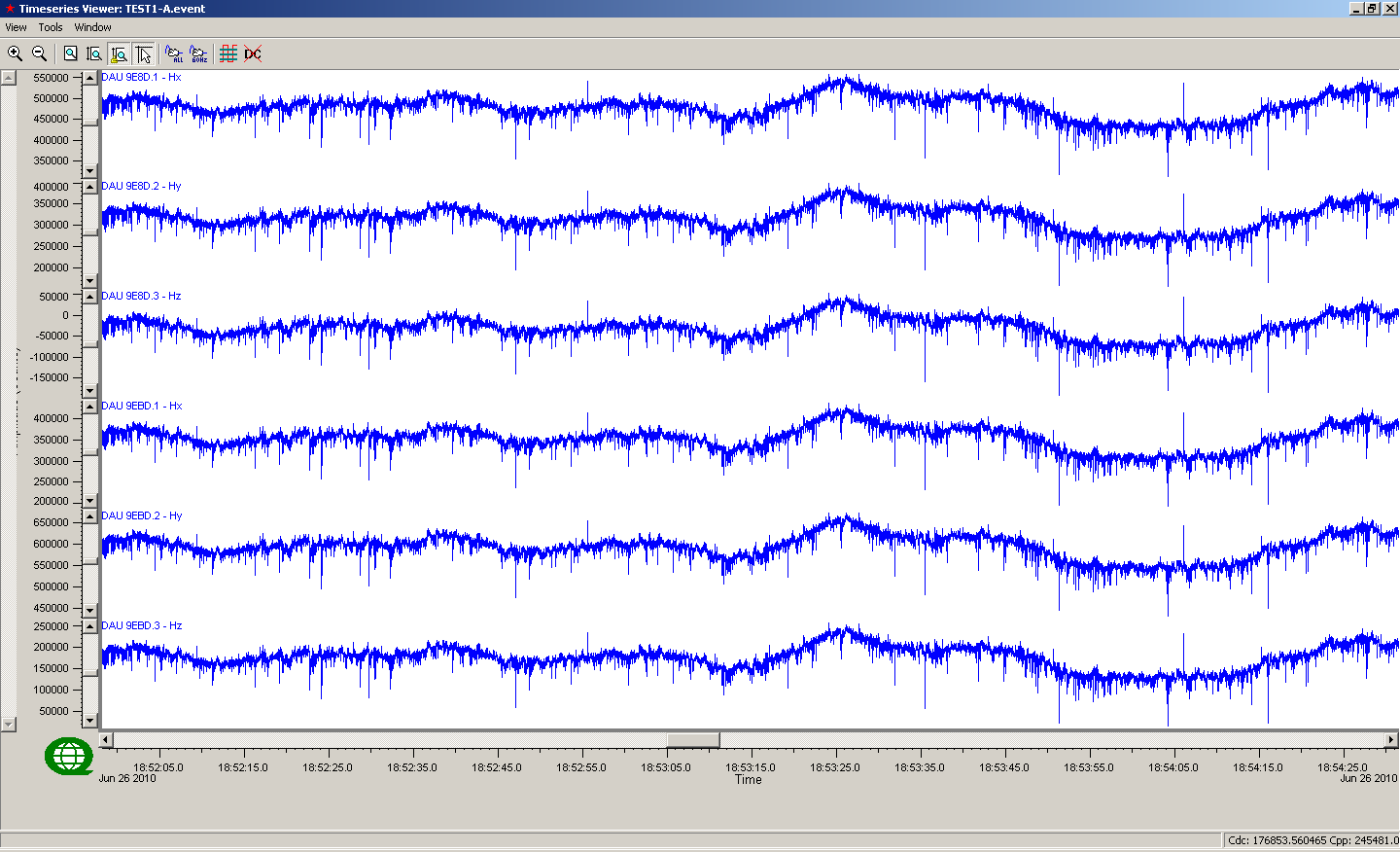
Sample Rate: 1000sps

TS Length: 3,120,000 samples (~52min)

Results:

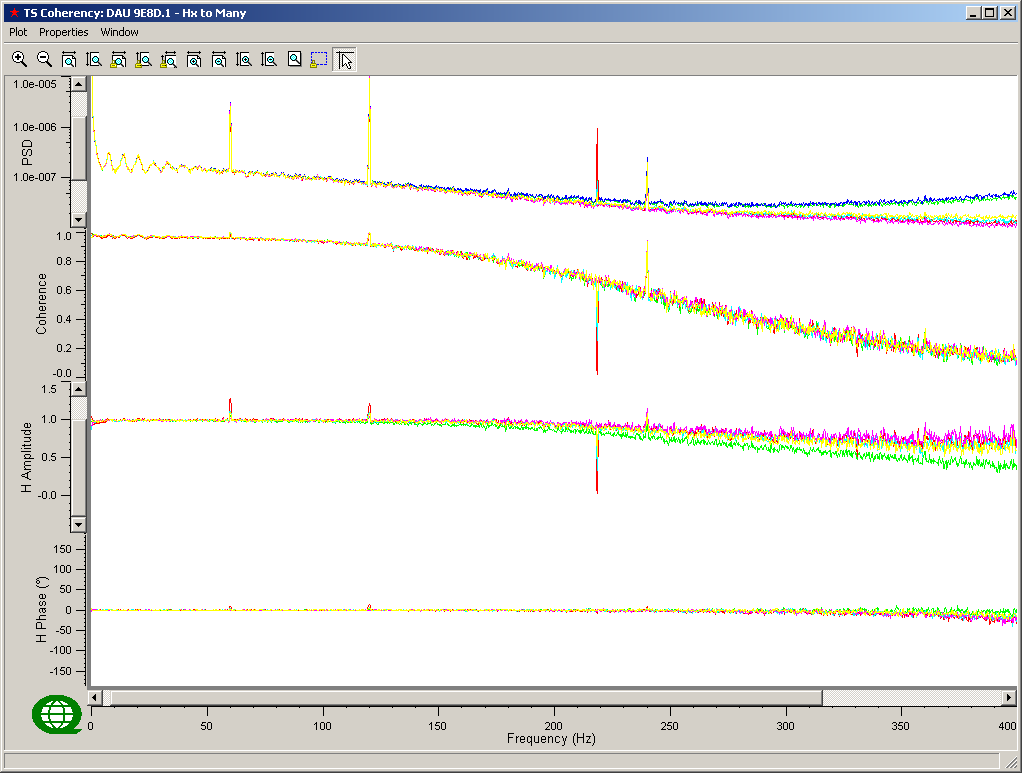
All coils OK

Time Series



Time series @ 1000sps

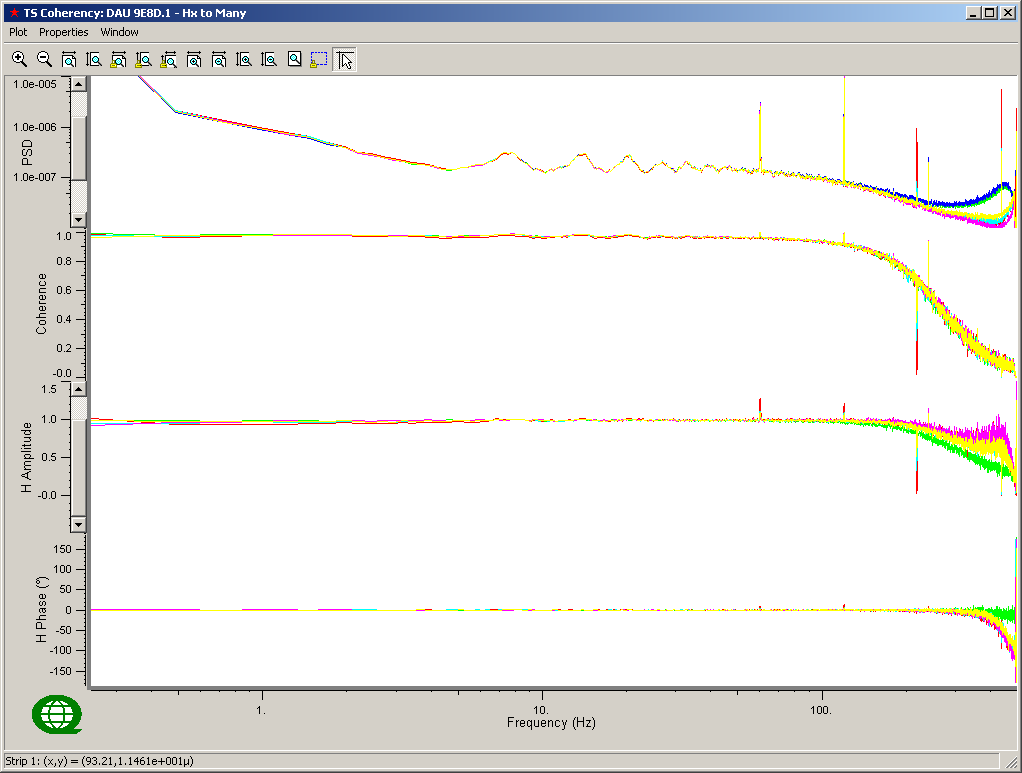
**Low Frequency Coil Results Coherency to P50-2121(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2121 |  |
| Green | P50-2131 |  |
| Red | P50-2196 |  |
| Cyan | P50-2239 |  |
| Magenta | P50-2242 |  |
| Yellow | P50-2243 |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to P50-2121 (Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2121 |  |
| Green | P50-2131 |  |
| Red | P50-2196 |  |
| Cyan | P50-2239 |  |
| Magenta | P50-2242 |  |
| Yellow | P50-2243 |  |
| Black |  |  |

* 1. Low Frequency Coils ... Test 1-b

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2248 | 9EAC |  |
| 2 | Phoenix | P50-2254 | 9EAB |  |
| 3 | Phoenix | P50-2388 | 9EAB |  |
| 4 | Phoenix | P50-2393 | 9EAB |  |
| 5 | Phoenix | P50-2394 | 9EBA |  |
| 6 | Phoenix | P50-2395 | 9EBA |  |
| 7 | Phoenix | P50-2296 | 9EBA |  |
|  |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test 1-B

Serial Events: 9EAC\_20100626.1825  
 9EBA\_20100626.1829  
 9EAB\_20100626.1828

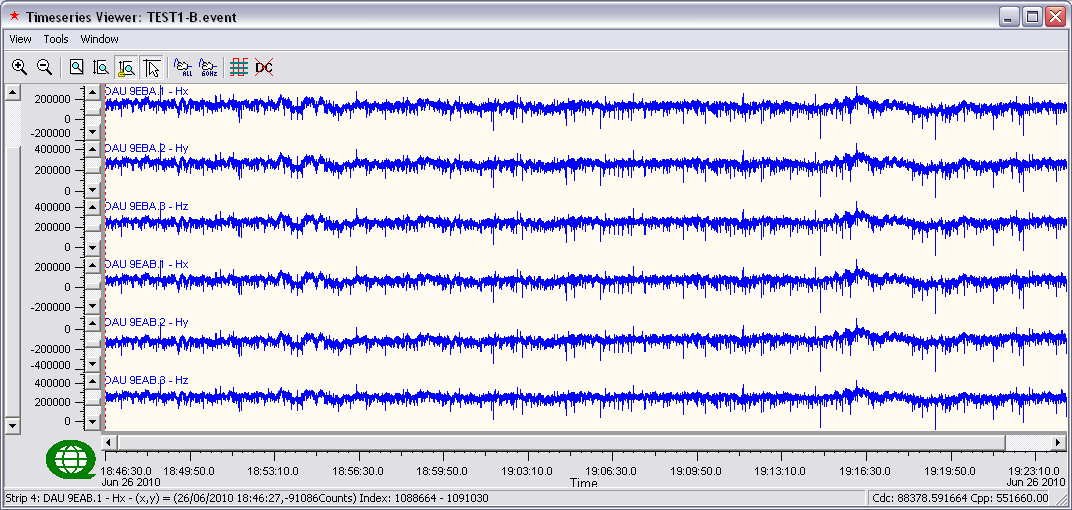
Sample Rate: 1000sps

TS Length: 2,400,000 samples (~40min)

Results:

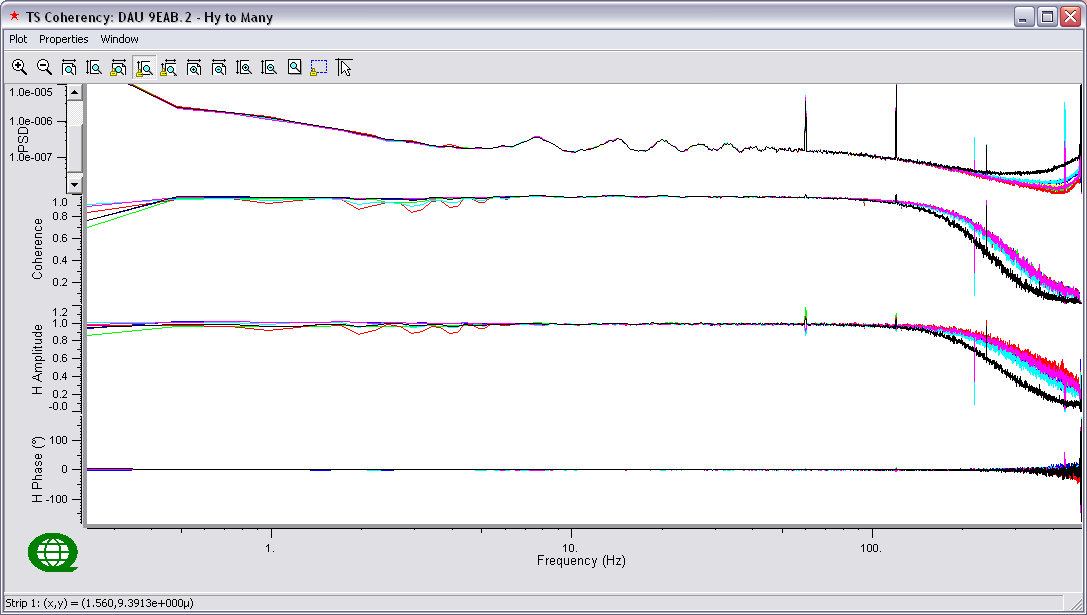
All coils OK

Time Series



Time series @ 1000sps

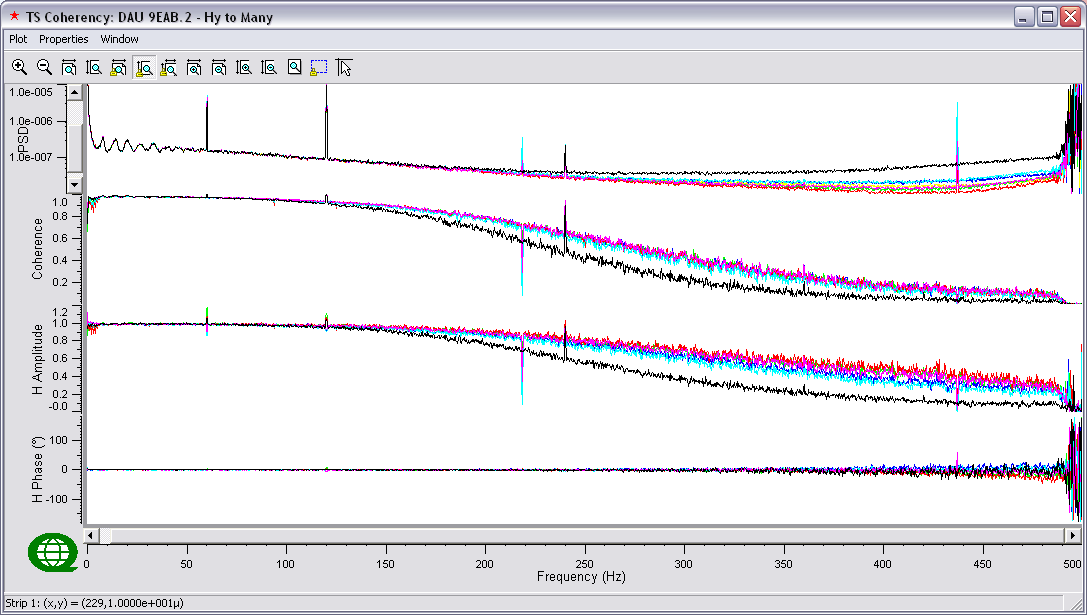
**Low Frequency Coil Results Coherency to P50-2395(Yellow)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2248 |  |
| Green | P50-2254 |  |
| Red | P50-2388 |  |
| Cyan | P50-2393 |  |
| Magenta | P50-2394 |  |
| Yellow | P50-2395 |  |
| Black | P50-2296 | Lower PSD, coherency and amplitude above 150Hz |

**Low Frequency Coil Results (continued) Coherency to P50-2395 (Yellow)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2248 |  |
| Green | P50-2254 |  |
| Red | P50-2388 |  |
| Cyan | P50-2393 |  |
| Magenta | P50-2394 |  |
| Yellow | P50-2395 |  |
| Black | P50-2296 | Lower PSD, coherency and amplitude above 150Hz |

* 1. Low Frequency Coils ... Test 2-A

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2203 | 957C |  |
| 2 | Phoenix | P50-2231 | 957C |  |
| 3 | Phoenix | P50-2233 | 957C |  |
| 4 | Phoenix | P50-2444 | 9579 |  |
| 5 | Phoenix | P50-2447 | 9579 |  |
| 6 | Phoenix | P50-2448 | 9579 | Also failed in previous PSTs. Was already flagged. |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test 2-A

Serial Events: 957C-2\_20100626.2045  
 9579\_20100626.2047

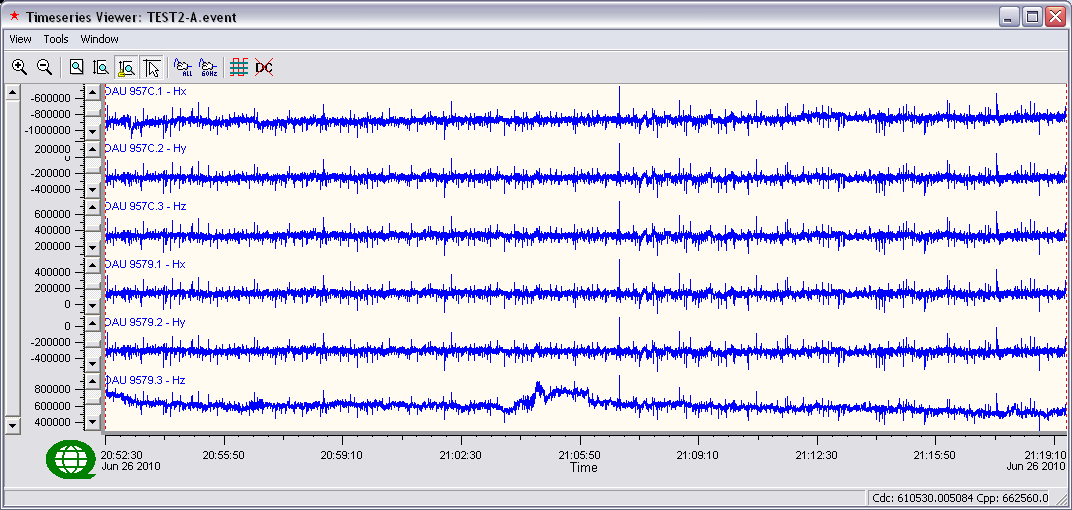
Sample Rate: 1000sps

TS Length: 1,620,000 samples (~27min)

Results:

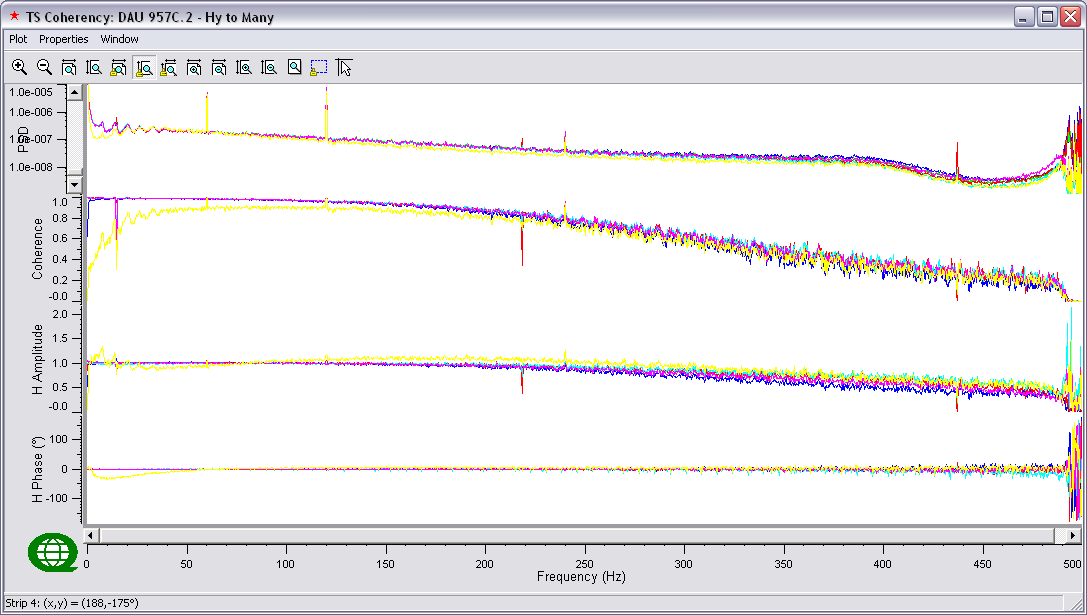
P50-2448 – After failing in Test 1 group, coil cable was swapped for Test 2. Results stayed the same. Coil was flagged and operator mentioned that it failed previous PSTs.

Time Series



Time series @ 1000sps

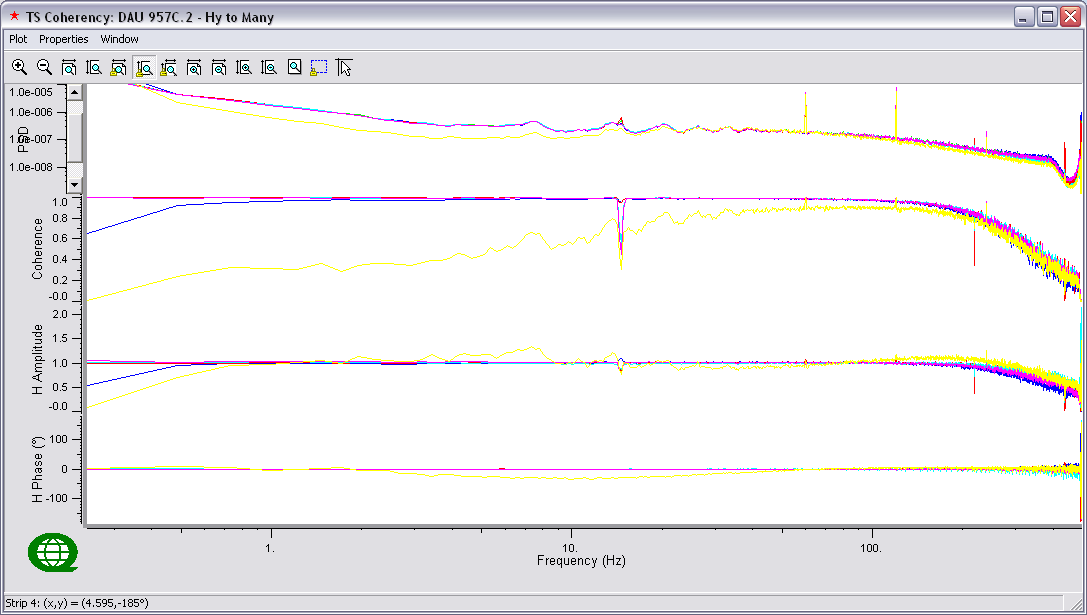
**Low Frequency Coil Results Coherency to P50-2231 (Green)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2203 |  |
| Green | P50-2231 |  |
| Red | P50-2233 |  |
| Cyan | P50-2444 |  |
| Magenta | P50-2447 |  |
| Yellow | P50-2448 | Fails all parameters |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to P50-2121 (Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2203 |  |
| Green | P50-2231 |  |
| Red | P50-2233 |  |
| Cyan | P50-2444 |  |
| Magenta | P50-2447 |  |
| Yellow | P50-2448 | Fails all parameters |
| Black |  |  |

* 1. Low Frequency Coils ... Test 2-b

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | EMI | BF7-7001 | 9564 |  |
| 2 | EMI | BF7-7005 | 9564 |  |
| 3 | EMI | BF7-7008 | 9564 |  |
| 4 | EMI | BF4-9122 | 9E8D |  |
| 5 | EMI | BF4-9836 | 9E8D |  |
| 6 |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test 2-B

Serial Events: 9564\_20100626.2049  
 9E8D-2\_20100626.2044

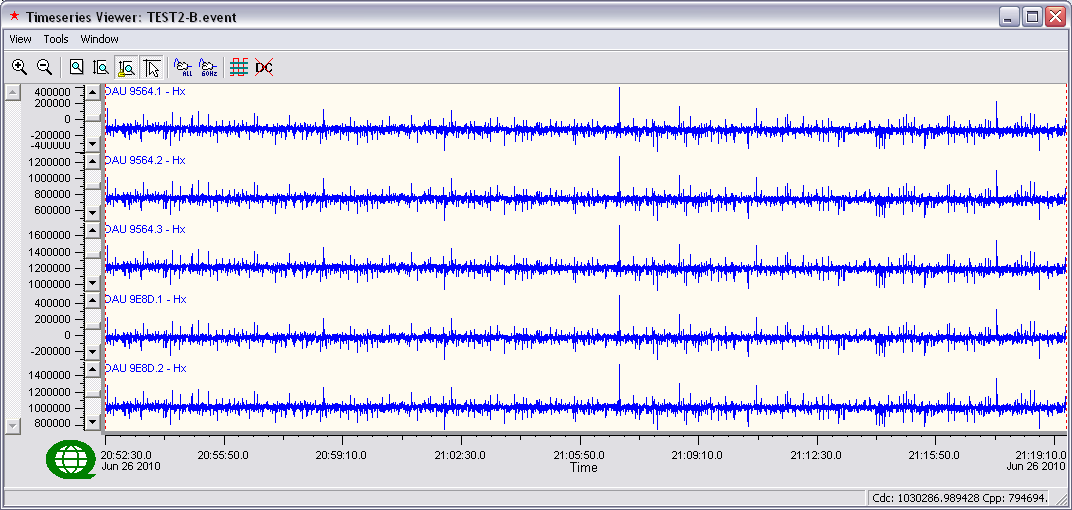
Sample Rate: 1000sps

TS Length: 1,620,000 samples (~27min)

Results:

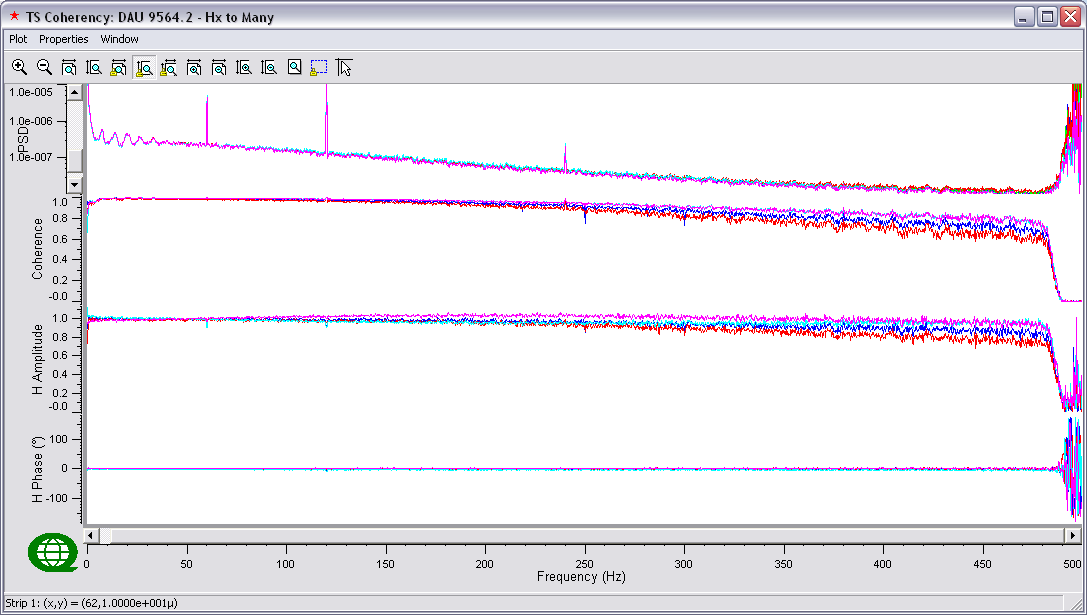
Coherencies diverge above 250Hz for all coils. Likely all coils are okay.

Time Series



Time series @ 1000sps

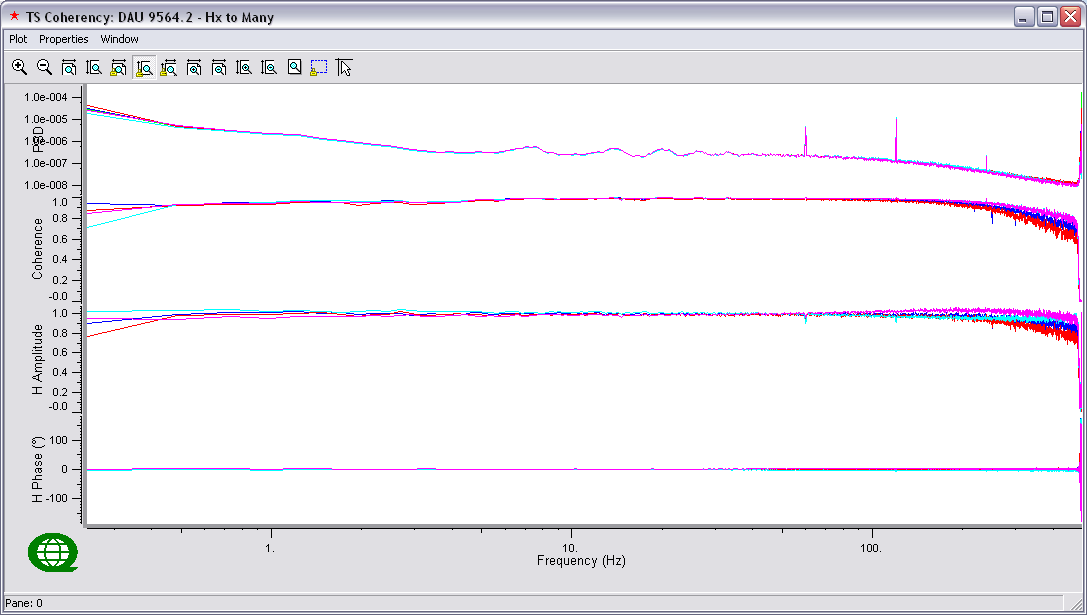
**Low Frequency Coil Results Coherency to BF7-7005(Green)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF7-7001 |  |
| Green | BF7-7005 |  |
| Red | BF7-7008 |  |
| Cyan | BF4-9122 |  |
| Magenta | BF4-9836 |  |
| Yellow |  |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to BF7-7005 (Green)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF7-7001 |  |
| Green | BF7-7005 |  |
| Red | BF7-7008 |  |
| Cyan | BF4-9122 |  |
| Magenta | BF4-9836 |  |
| Yellow |  |  |
| Black |  |  |

* 1. Low Frequency Coils ... Test 2-C

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | EMI | BF4-9122 | 9E8D |  |
| 2 | EMI | BF4-9836 | 9E8D |  |
| 3 | EMI | BF4-9622 | 9EBA |  |
| 4 | EMI | BF4-9623 | 9EBA |  |
| 5 | EMI | BF4-9624 | 9EBA |  |
| 6 |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test 2-C

Serial Events: 9E8D-2\_20100626.2044  
 9EBA-2\_20100626.2048

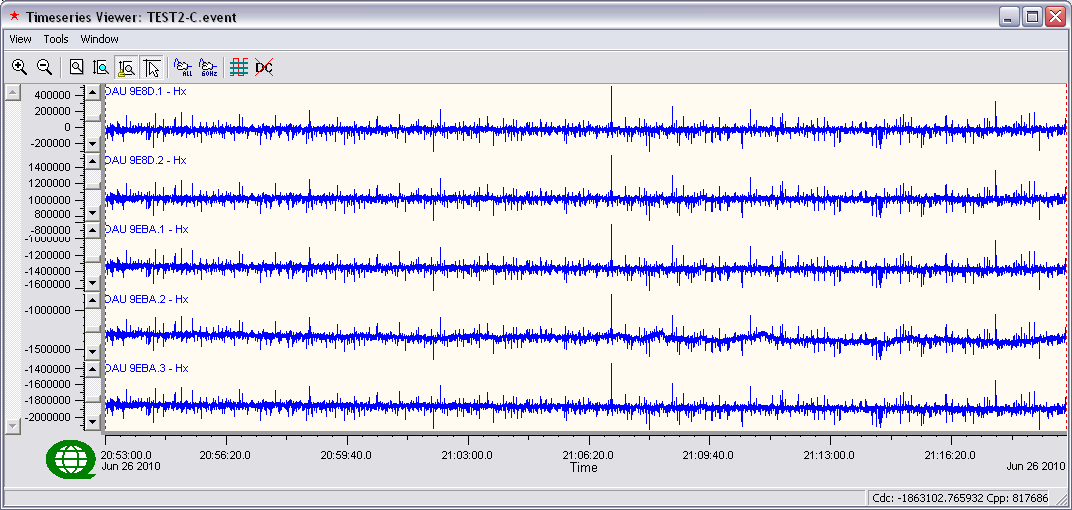
Sample Rate: 1000sps

TS Length: 1,560,000 samples (~26min)

Results:

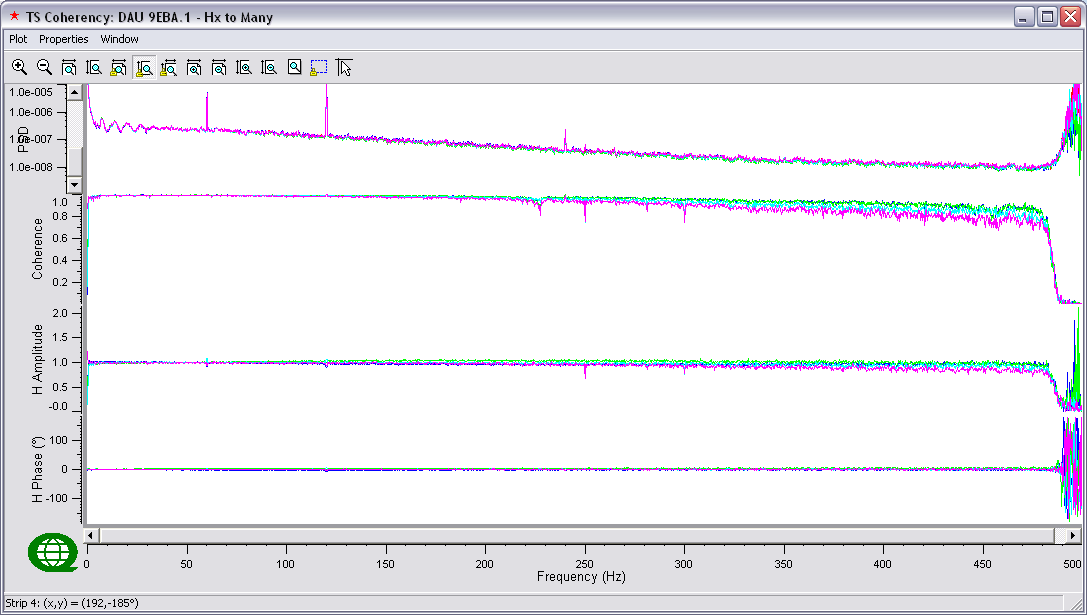
All coils OK

Time Series



Time series @ 1000sps

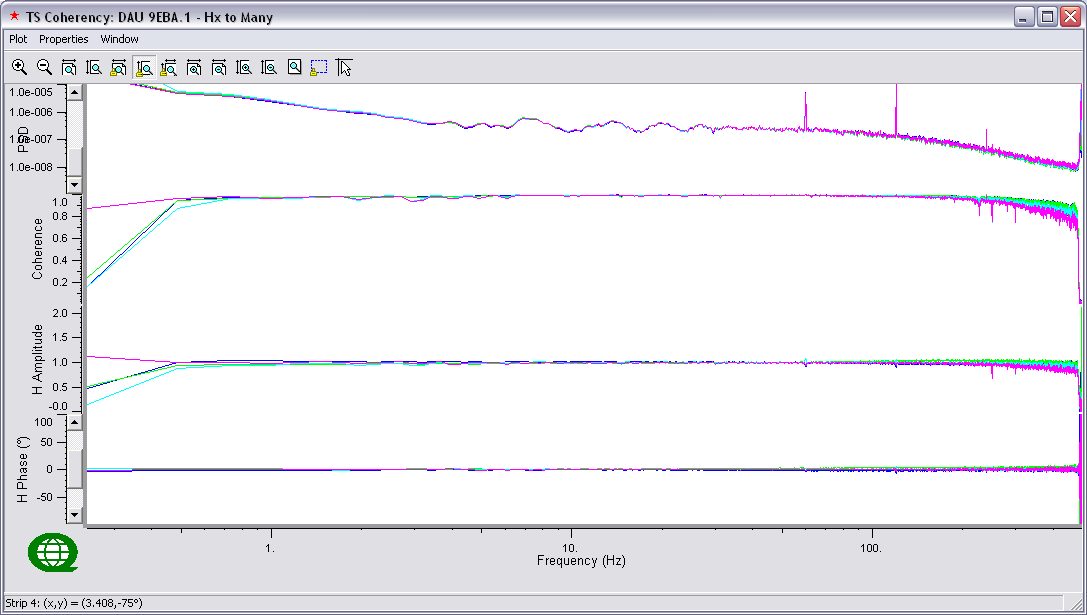
**Low Frequency Coil Results Coherency to BF4-9622(Red)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF4-9122 |  |
| Green | BF4-9836 |  |
| Red | BF4-9622 |  |
| Cyan | BF4-9623 |  |
| Magenta | BF4-9624 | Slightly lower coherencies above 250Hz |
| Yellow |  |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to BF4-9622(Red)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF4-9122 |  |
| Green | BF4-9836 |  |
| Red | BF4-9622 |  |
| Cyan | BF4-9623 |  |
| Magenta | BF4-9624 |  |
| Yellow |  |  |
| Black |  |  |

* 1. Low Frequency Coils ... Test 3-A

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2451 | 9571 |  |
| 2 | Phoenix | P50-2456 | 9571 |  |
| 3 | Phoenix | P50-2461 | 9571 | Fails all parameters |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test 3-A

Serial Events: 9571-3\_20100626.2319

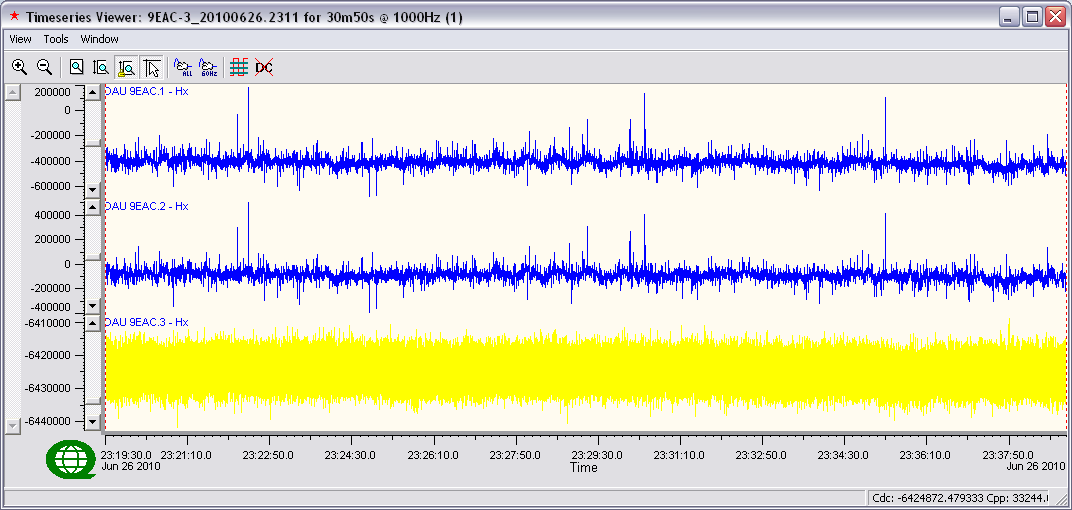
Sample Rate: 1000sps

TS Length: 1,440,000 samples (~24min)

Results:

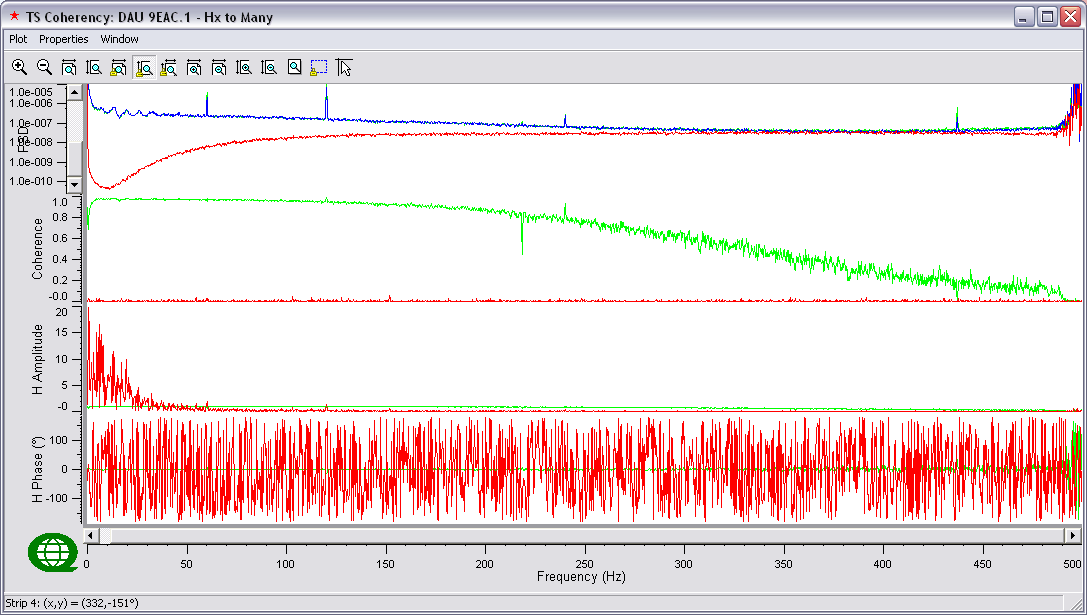
Coils tested 3 times. Logger switched from 9F07 to 9571 (with Test 2 group). Coil cable switched for this test. Results are consistent.

Time Series



Time series @ 1000sps

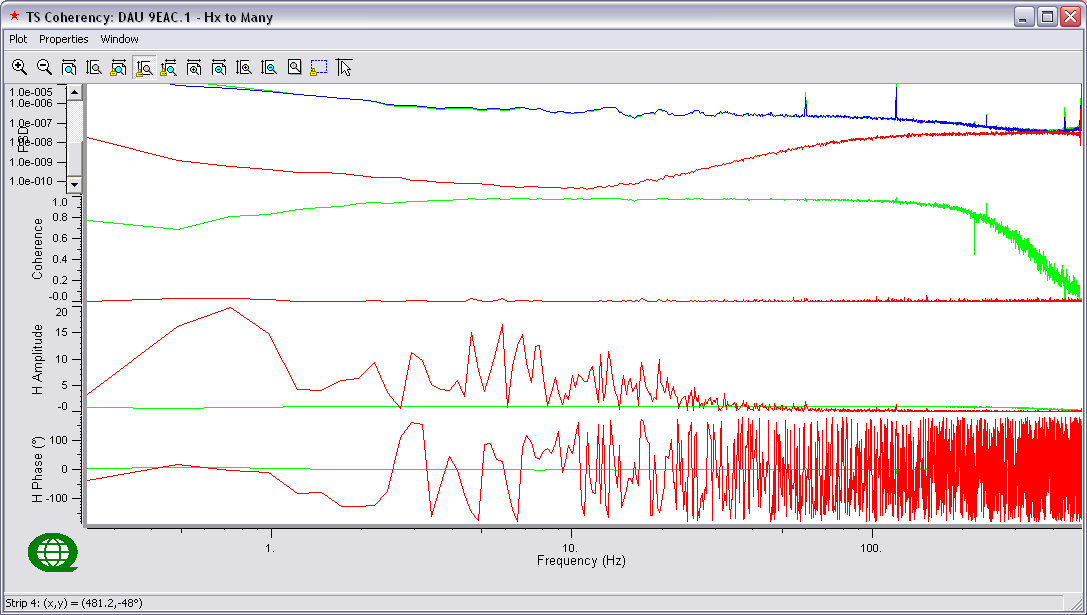
**Low Frequency Coil Results Coherency to P50-2451(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2451 |  |
| Green | P50-2456 | Slightly lower coherencies below 1Hz |
| Red | P50-2461 | Fails all parameters |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to P50-2451(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2451 |  |
| Green | P50-2456 | Slightly lower coherencies below 1Hz |
| Red | P50-2461 | Fails all parameters |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

* 1. Low Frequency Coils ... Test3-b

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | EMI | BF4-9107 | 9571 |  |
| 2 | EMI | BF4-9115 | 9571 |  |
| 3 | EMI | BF4-9119 | 9571 | Fails all parameters |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test 3-B

Serial Events: 9571-3\_20100626.2319

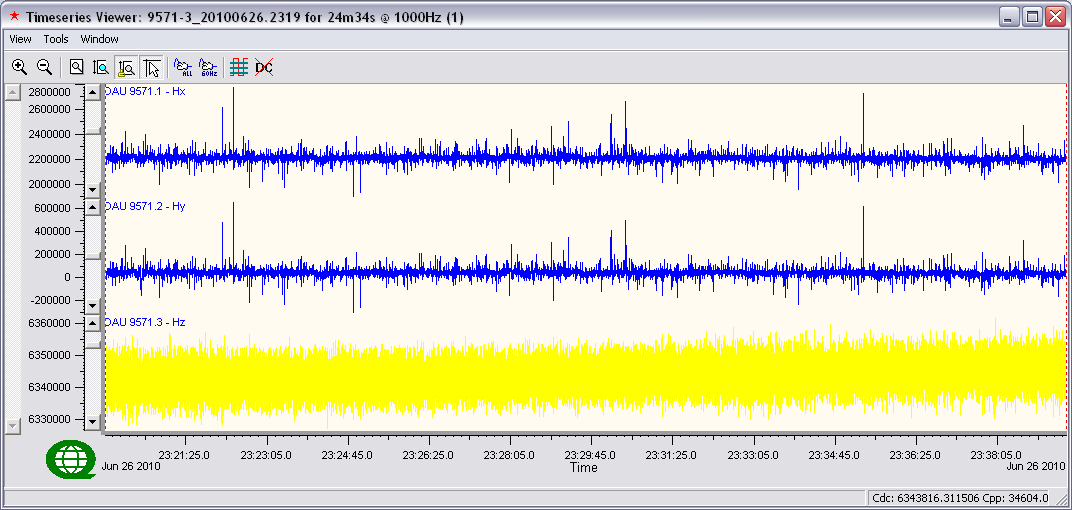
Sample Rate: 1000sps

TS Length: 1,440,000 samples (~24min)

Results:

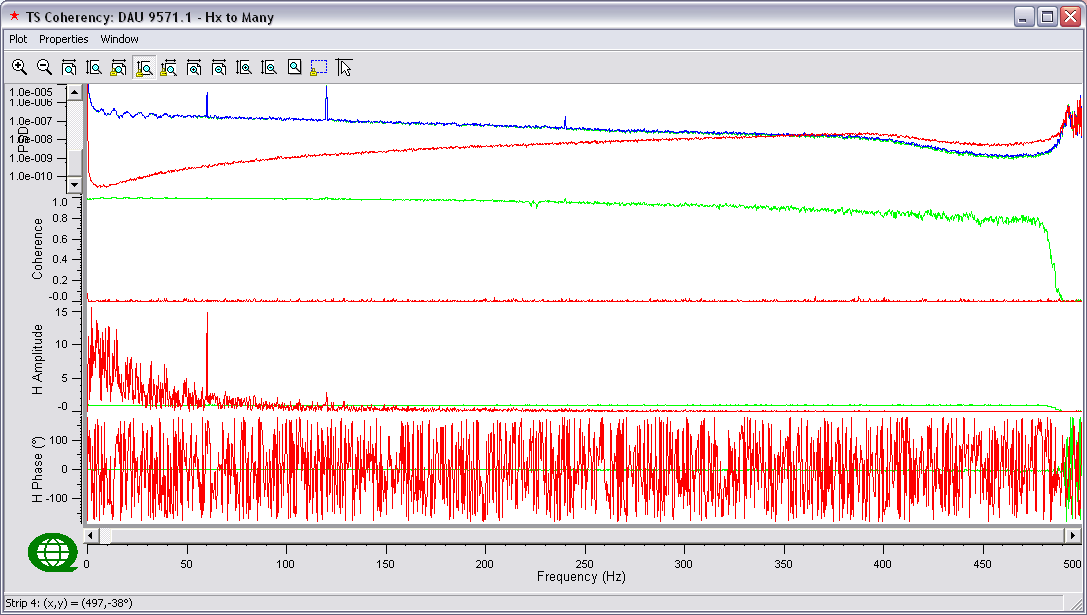
Coil 9119 was tested 3 times: Coil cable was checked and tightened (with Test 1 group). Coil cable was swapped (with Test 2 group).

Time Series



Time series @ 1000sps

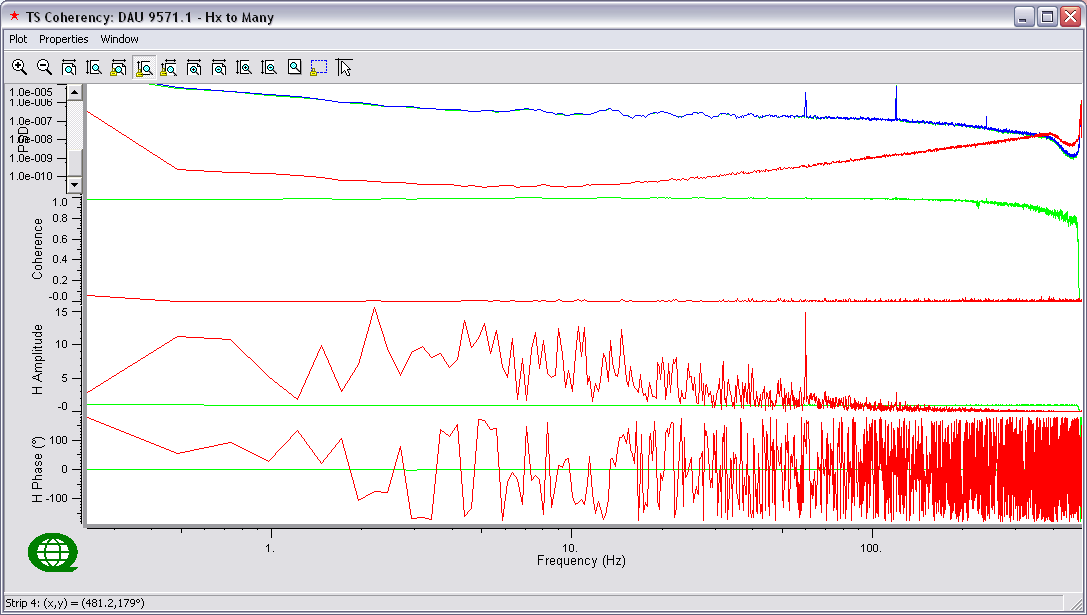
**Low Frequency Coil Results Coherency to BF4-9107(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF4-9107 |  |
| Green | BF4-9115 |  |
| Red | BF4-9119 | Fails all parameters |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to BF4-9107(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF4-9107 |  |
| Green | BF4-9115 |  |
| Red | BF4-9119 | Fails all parameters |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

* 1. Low Frequency Coils ... Test4 (DAY2)

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2451 | 9571 |  |
| 2 | Phoenix | P50-2456 | 9571 |  |
| 3 | Phoenix | P50-2461 | 9571 |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test4

Serial Events: pst2\_20100627.1623

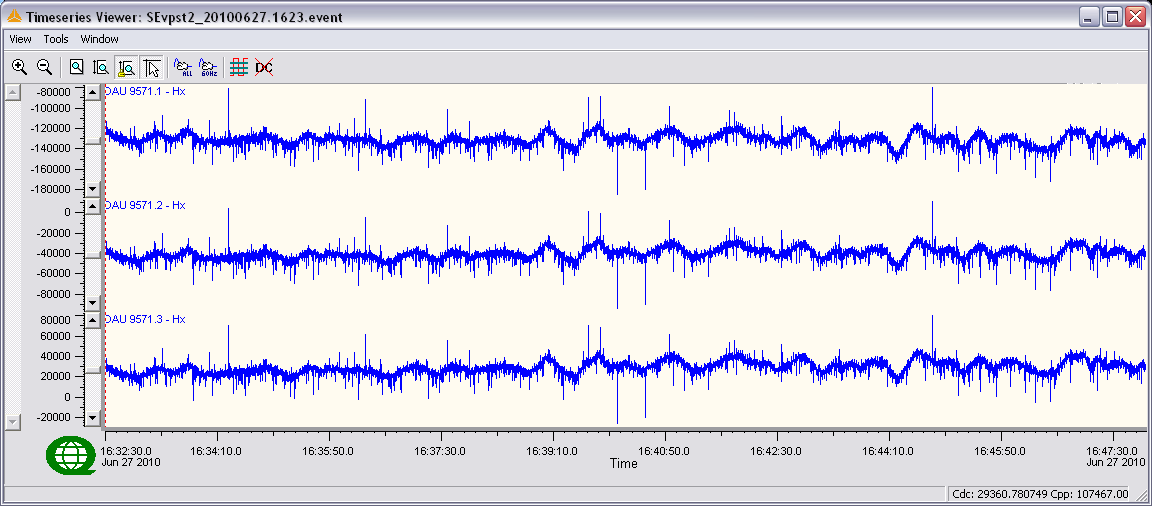
Sample Rate: 1000sps

TS Length: 1,560,000 samples (~26min)

Results:

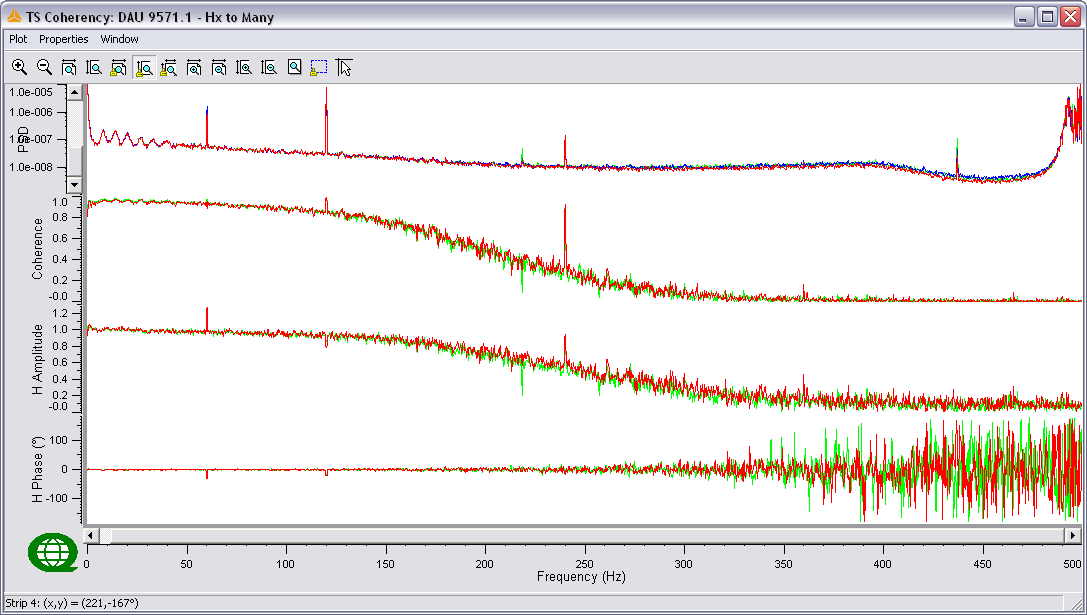
All coils OK

Time Series



Time series @ 1000sps

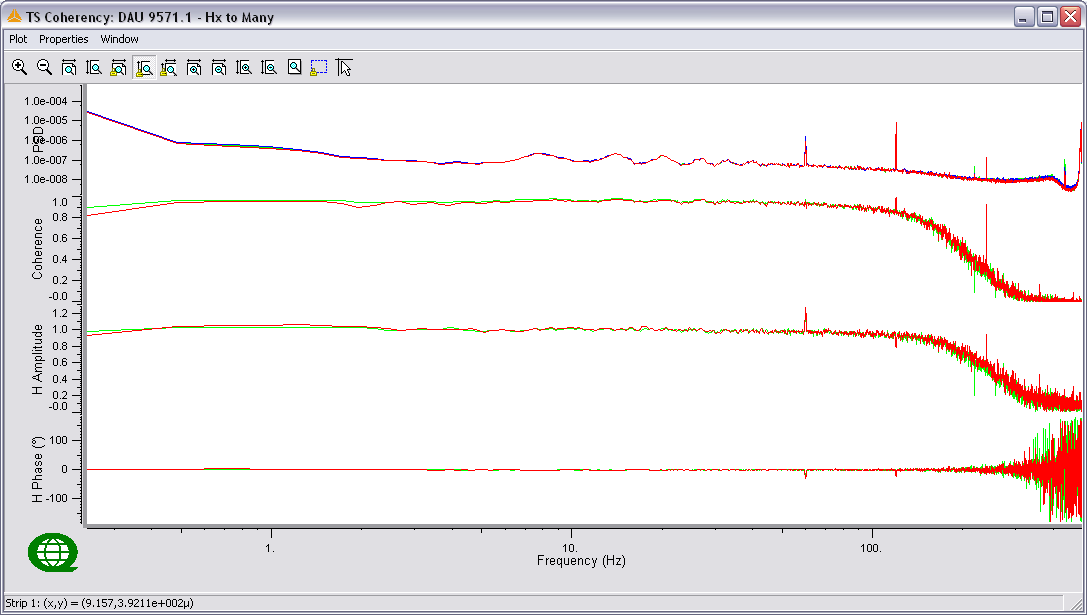
**Low Frequency Coil Results Coherency to P50-2451(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2451 |  |
| Green | P50-2456 |  |
| Red | P50-2461 |  |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to P50-2451(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2451 |  |
| Green | P50-2456 |  |
| Red | P50-2461 |  |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

* 1. Low Frequency Coils ... Test5

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2451 | 9571 |  |
| 2 | Phoenix | P50-2456 | 9571 |  |
| 3 | Phoenix | P50-2461 | 9571 |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

* + 1. Test Results: 1000sps

Event Test5

Serial Events: 9571-5\_20100627.1706

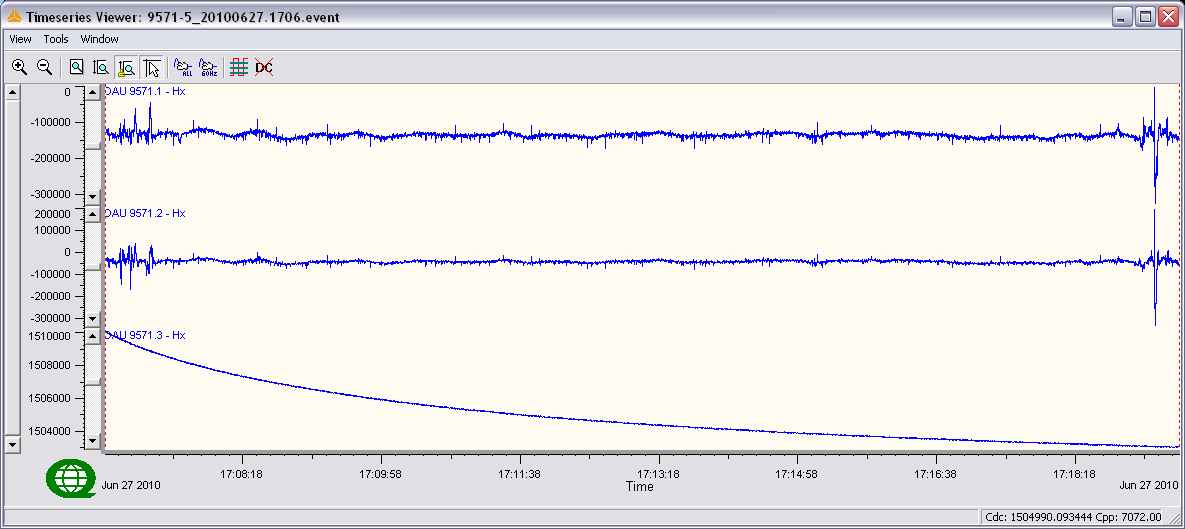
Sample Rate: 1000sps

TS Length: 780,000 samples (~13min)

Results:

Coils had previously passed test (Test4), after switching coils to opposite side of spider the z-coil did not track

Time Series



Time series @ 1000sps

* 1. Low Frequency Coils ... Test6

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2461 | 9571 |  |
| 2 | Phoenix | P50-2456 | 9571 |  |
| 3 | Phoenix | P50-2451 | 9571 |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

* + 1. Test Results: 1000sps

Event Test6

Serial Events: SEvpst2\_20100627.1727

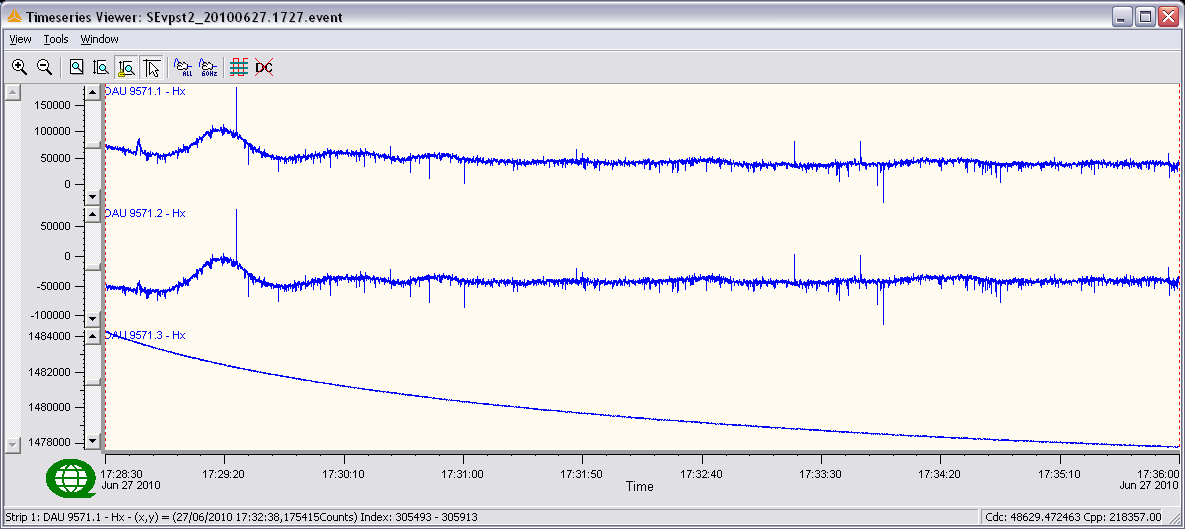
Sample Rate: 1000sps

TS Length: 600,000 samples (~10min)

Results:

After z-input failure in Test5 coils in x and z inputs were switched, z inputs continued to fail all parameters. Spider flagged as bad.

Time Series



Time series @ 1000sps

* 1. Low Frequency Coils ... Test7

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | Phoenix | P50-2451 | 9F07 |  |
| 2 | Phoenix | P50-2456 | 9F07 |  |
| 3 | Phoenix | P50-2461 | 9F07 |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test7

Serial Events: 9FO7-7\_20100627.1752

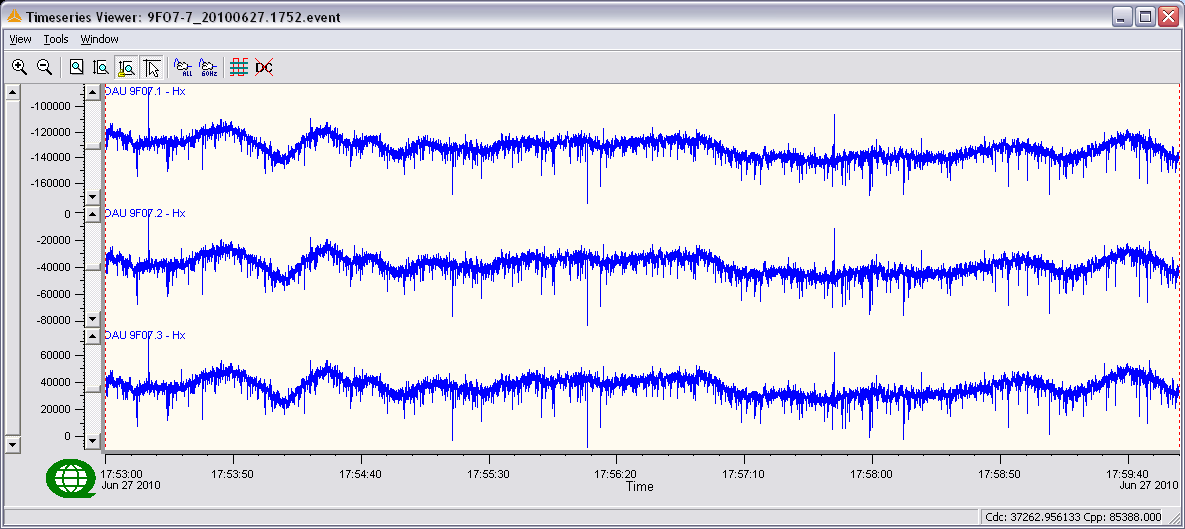
Sample Rate: 1000sps

TS Length: 480,000 samples (~8min)

Results:

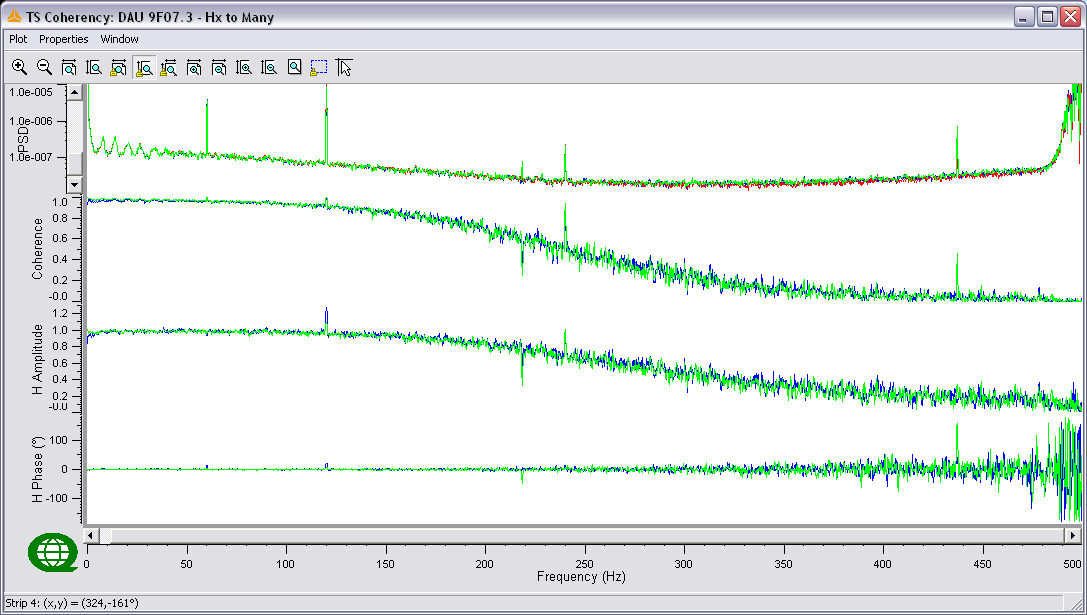
After failing day 1 tests, 9F07 was retested using different spider, everything was OK.

Time Series



Time series @ 1000sps

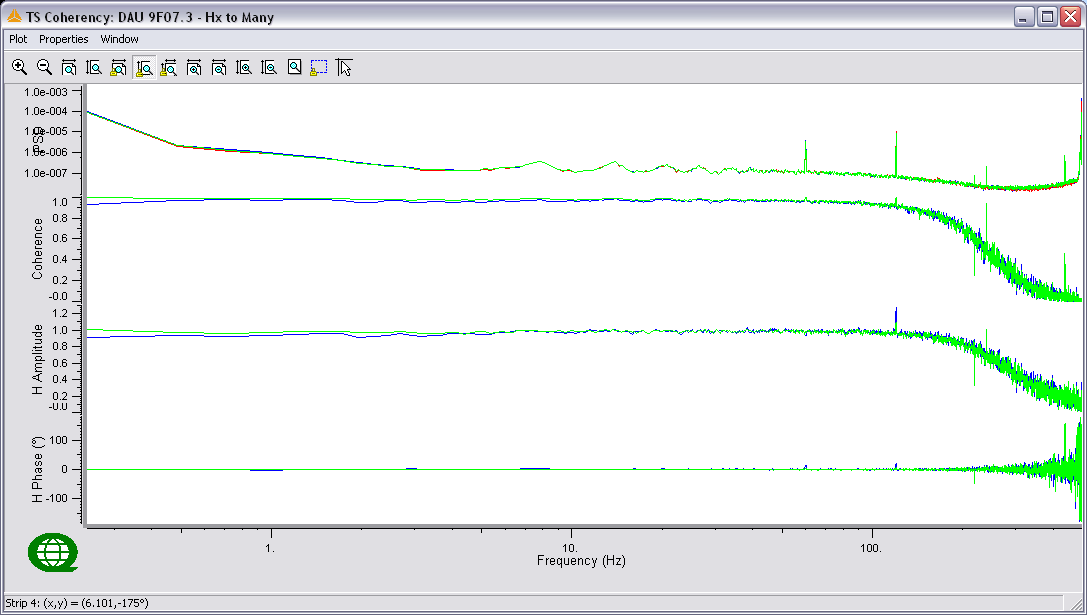
**Low Frequency Coil Results Coherency to P50-2461(Red)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2451 |  |
| Green | P50-2456 |  |
| Red | P50-2461 |  |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to P50-2461(Red)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | P50-2451 |  |
| Green | P50-2456 |  |
| Red | P50-2461 |  |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

* 1. Low Frequency Coils ... Test8

**Available Coils:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TS Strip | Manufacture | Serial # | Logger # | Notes |
| 1 | EMI | BF4-9107 | 9F07 |  |
| 2 | EMI | BF4-9115 | 9F07 |  |
| 3 | EMI | BF4-9119 | 9F07 |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

**Processing Parameters:**

|  |  |
| --- | --- |
| Parameters | Values |
| PSD Method | Welch |
| Window | Hanning |
| Window Length | 4096 |
| Segment Overlap | 50% |

* + 1. Test Results: 1000sps

Event Test8

Serial Events: 9FO7-8\_20100627.1812

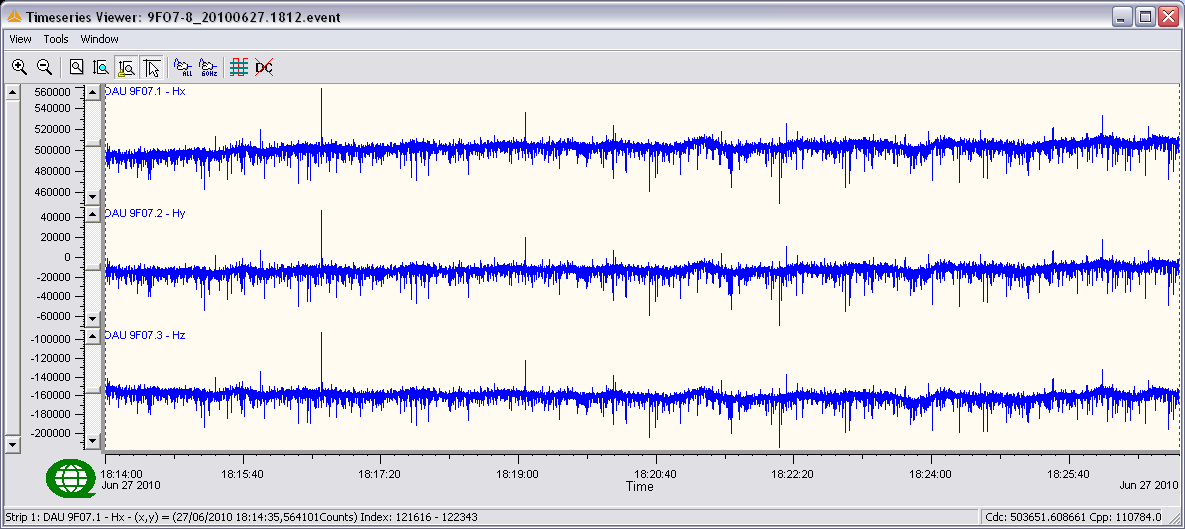
Sample Rate: 1000sps

TS Length: 960,000 samples (~16min)

Results:

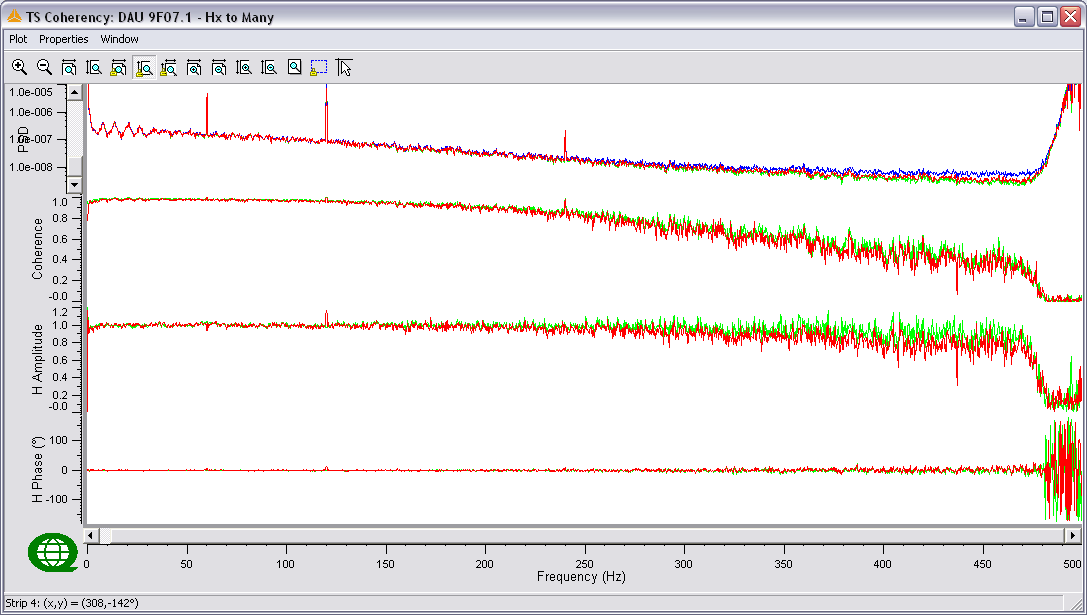
All coils OK

Time Series



Time series @ 1000sps

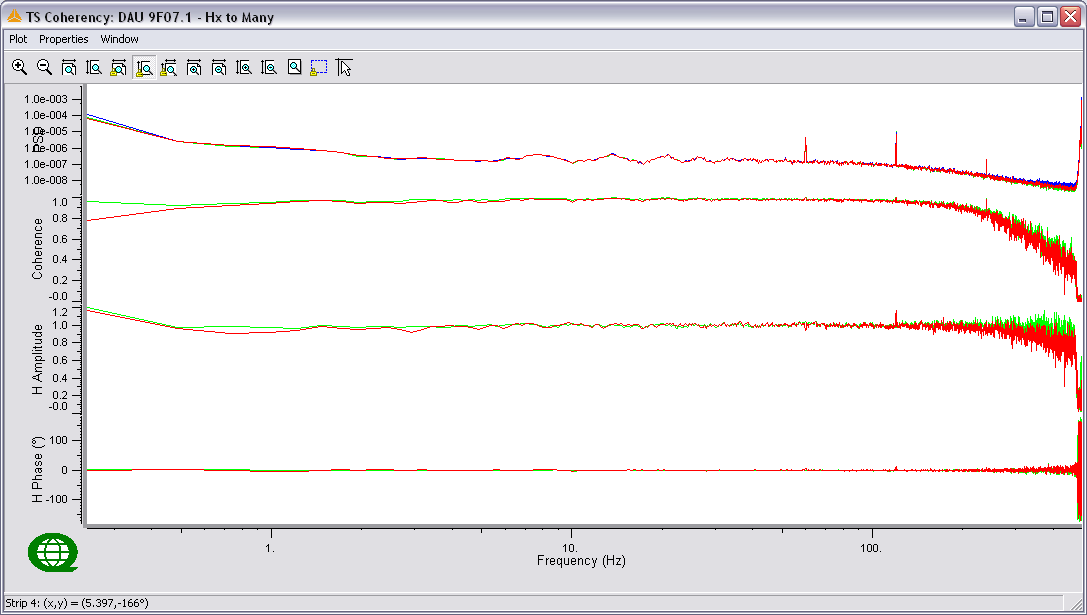
**Low Frequency Coil Results Coherency to BF4-9107(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Linear frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF4-9107 |  |
| Green | BF4-9115 |  |
| Red | BF4-9119 |  |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |

**Low Frequency Coil Results (continued) Coherency to BF4-9107(Blue)**



From top to bottom: PSD of channels and Coherency and Response Function (Amplitude and Phase) compared to Reference Channel – Logarithmic frequency scale

|  |  |  |
| --- | --- | --- |
| Colour | Channel | Notes |
| Blue | BF4-9107 |  |
| Green | BF4-9115 |  |
| Red | BF4-9119 |  |
| Cyan |  |  |
| Magenta |  |  |
| Yellow |  |  |
| Black |  |  |