

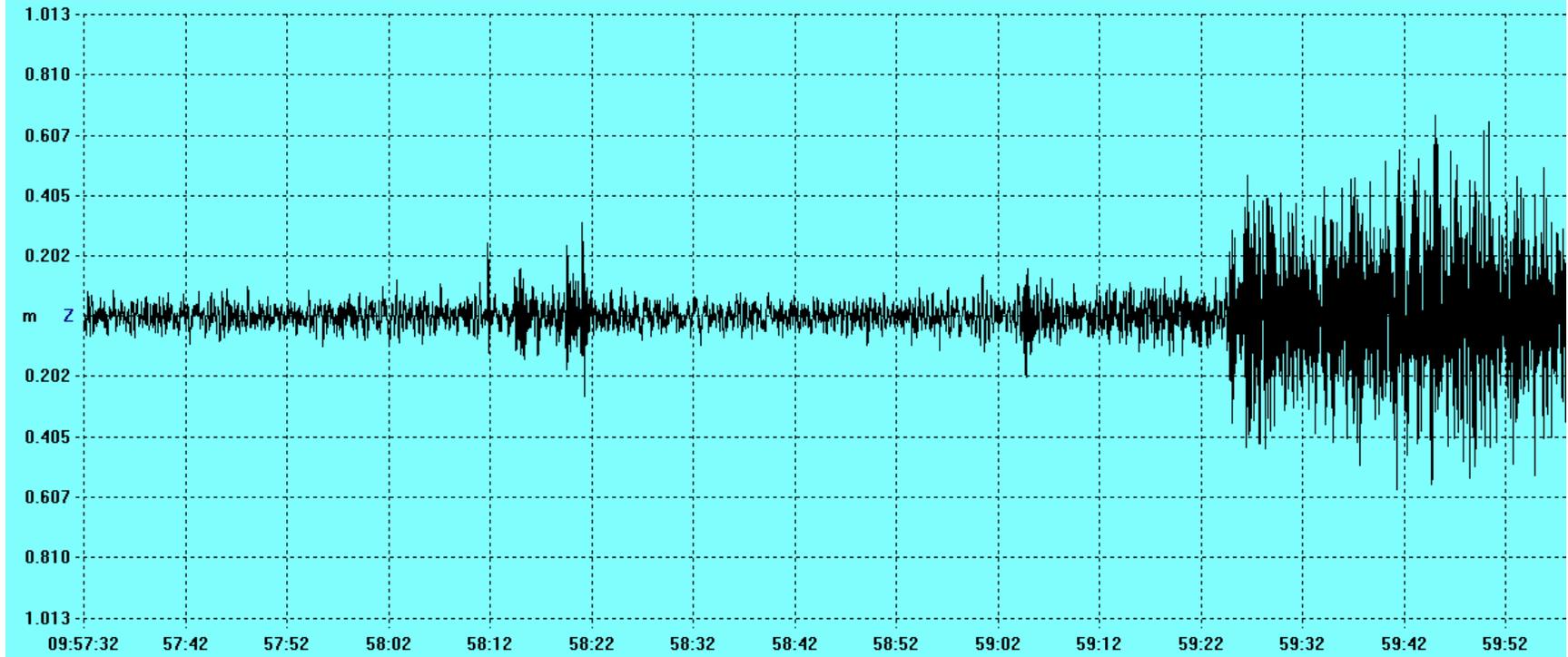
# **Apêndice**

## **Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio**

**Novembro  
2011**

**Registros da Estação Sismológica de  
Samuel (SAML) e da Estação SANT1**

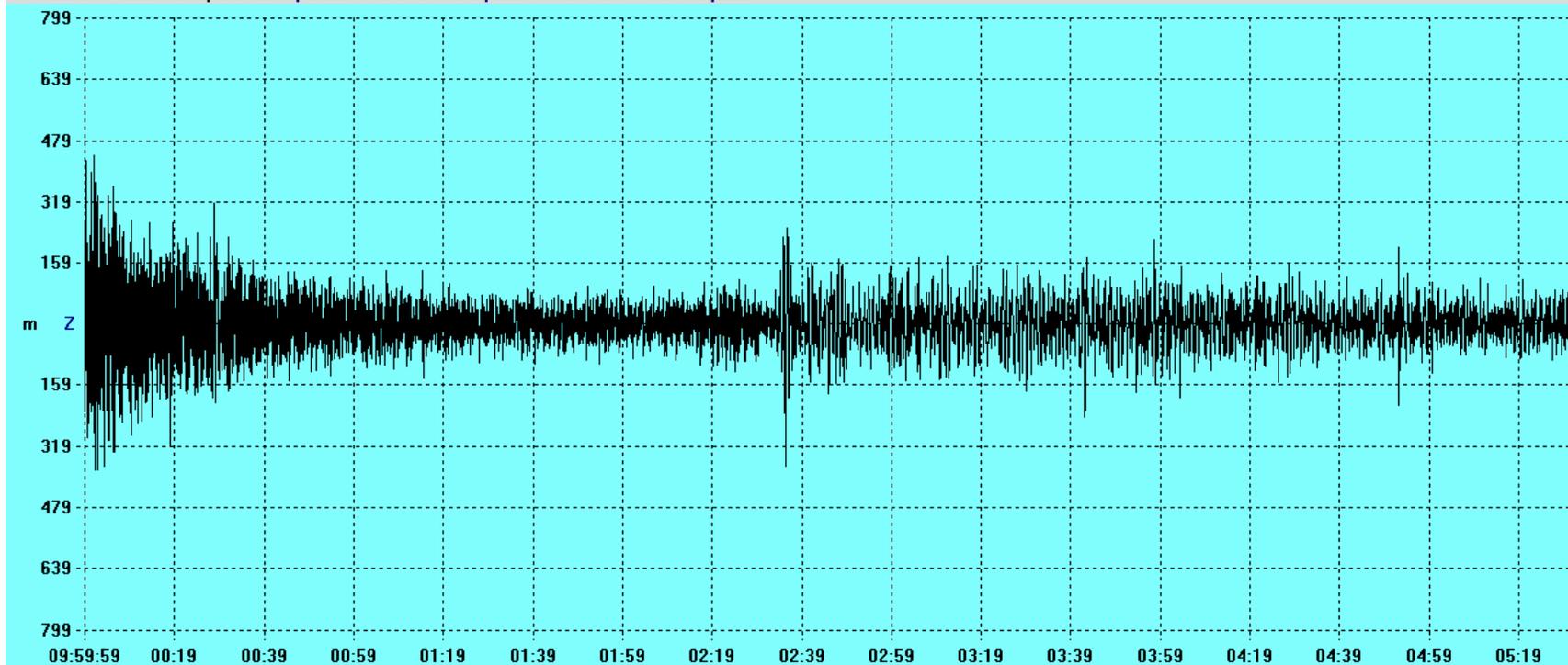
Start: 11/03/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:26.0 Y: 1.0125m Max/Min: 1973/-1705 Peak: 672 m/sec View Peak: 672 m/sec



Evento 1

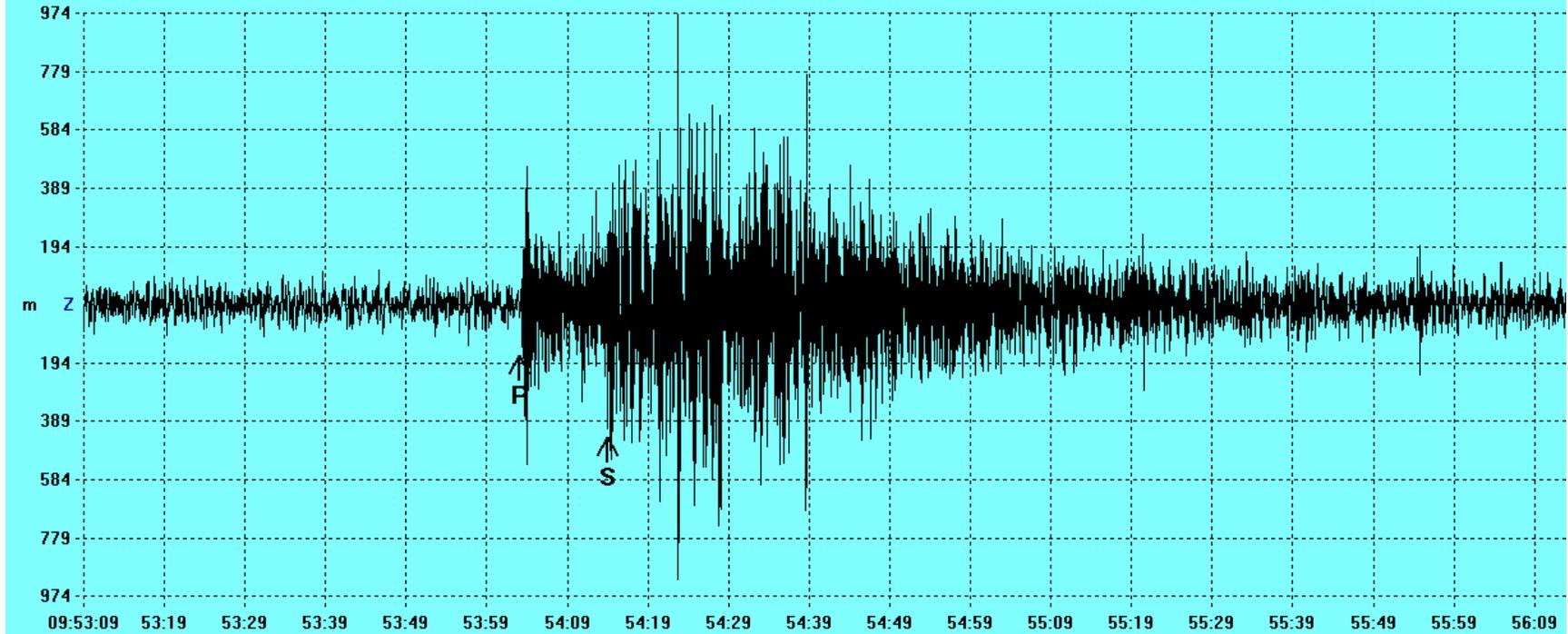
Continuação do registo acima:

Start: 11/03/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 5:35.0 Y: 800m Max/Min: 3274/-2803 Peak: 1.115 m/sec View Peak: 440.4 m/sec



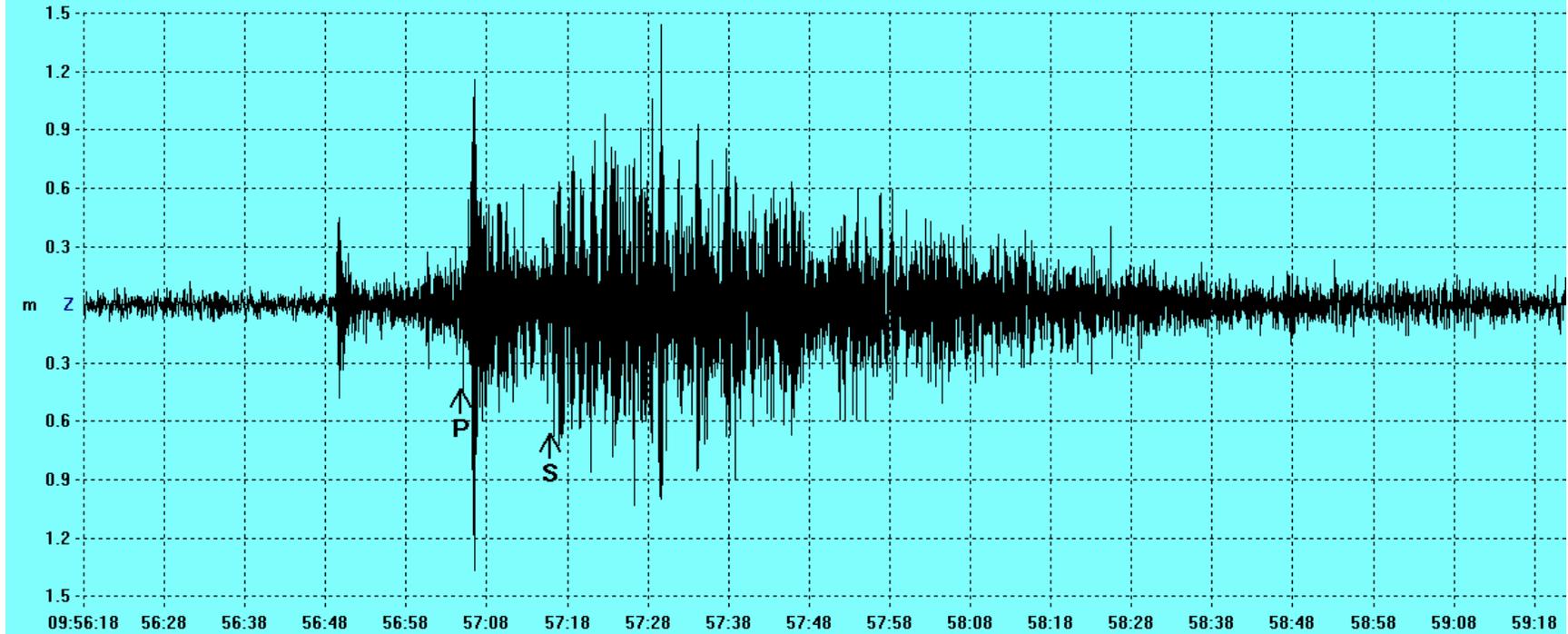
Evento 1.

Start: 11/04/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:04.0 Y: 975m Max/Min: 2841/-2699 Peak: 967.6 m/sec View Peak: 967.6 m/sec  
Org: 9:53:48.1 P: 9:54:03.0 S: 9:54:14.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



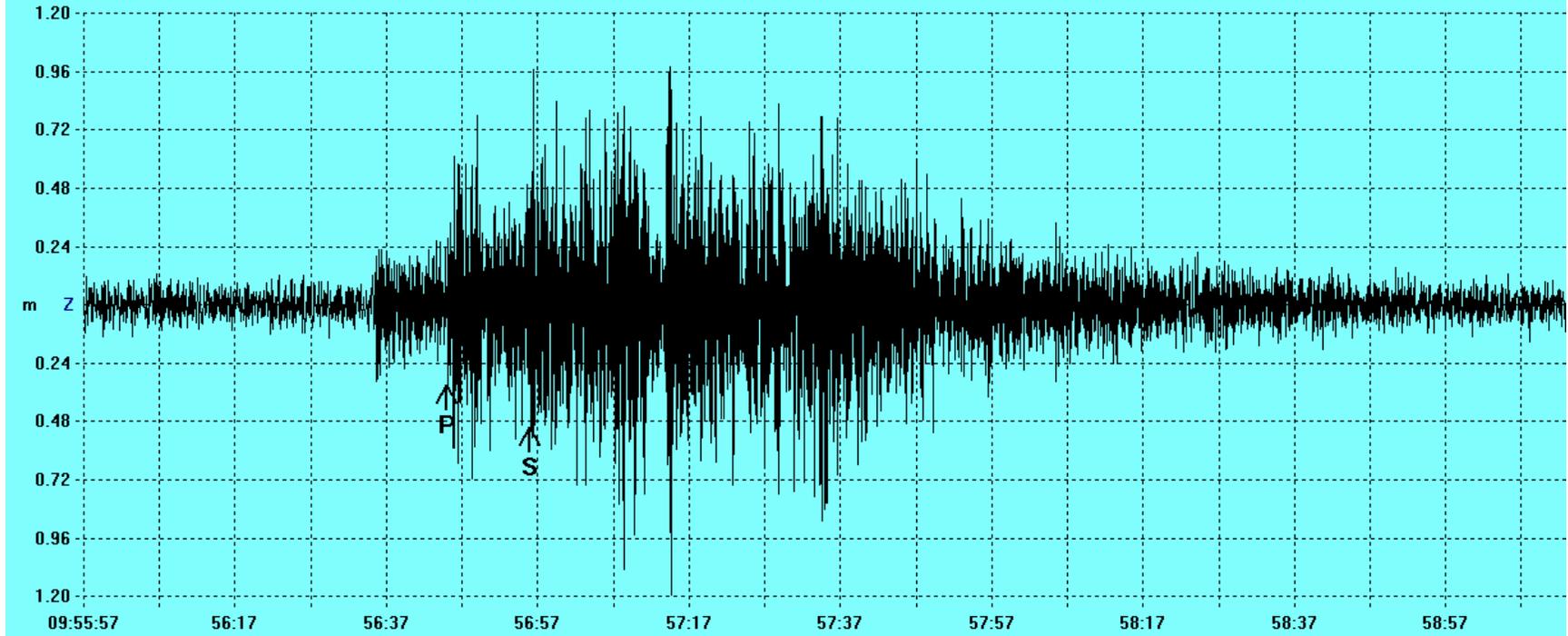
Evento 2.

Start: 11/08/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:04.0 Y: 1.5m Max/Min: 4217/-4007 Peak: 1.436 m/sec View Peak: 1.436 m/sec  
Org: 9:56:49.9 P: 9:57:04.8 S: 9:57:15.8 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



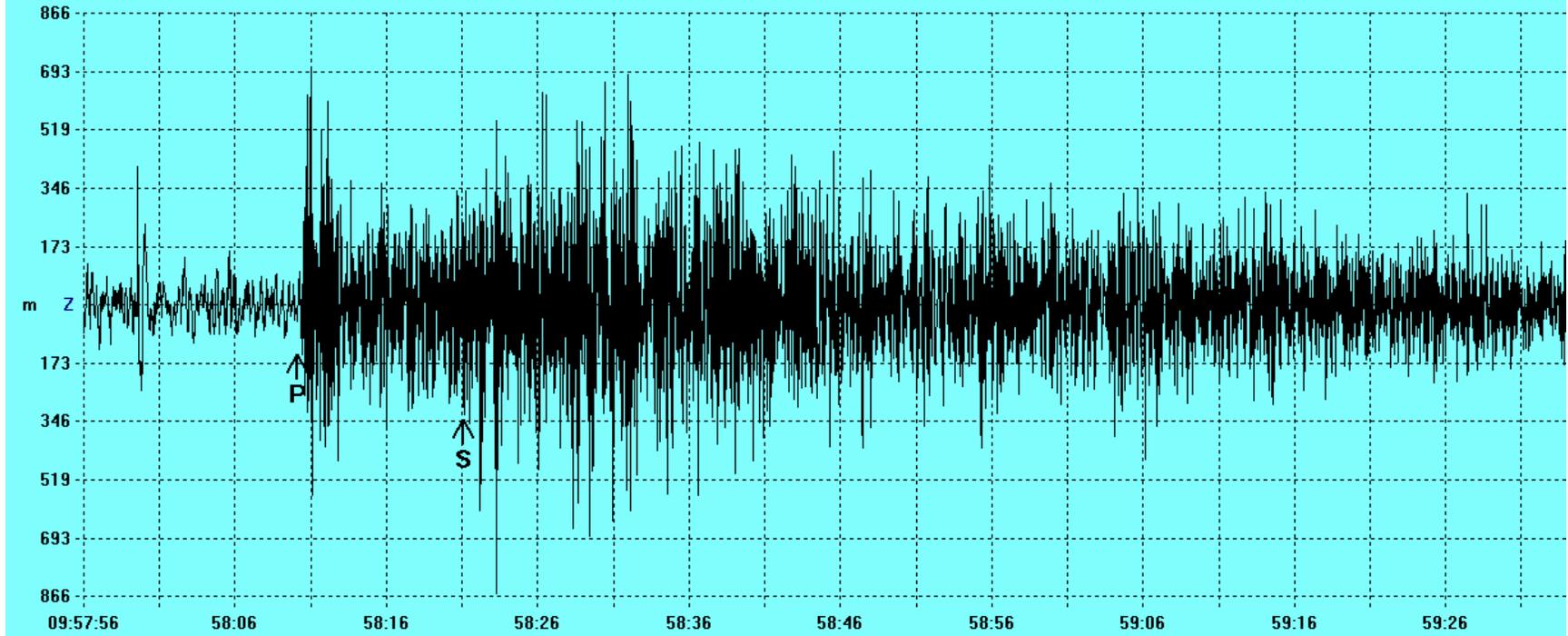
Evento 3.

Start: 11/09/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:16.0 Y: 1.2m Max/Min: 3479/-3493 Peak: 1.19 m/sec View Peak: 1.19 m/sec  
Org: 9:56:30.0 P: 9:56:44.9 S: 9:56:55.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



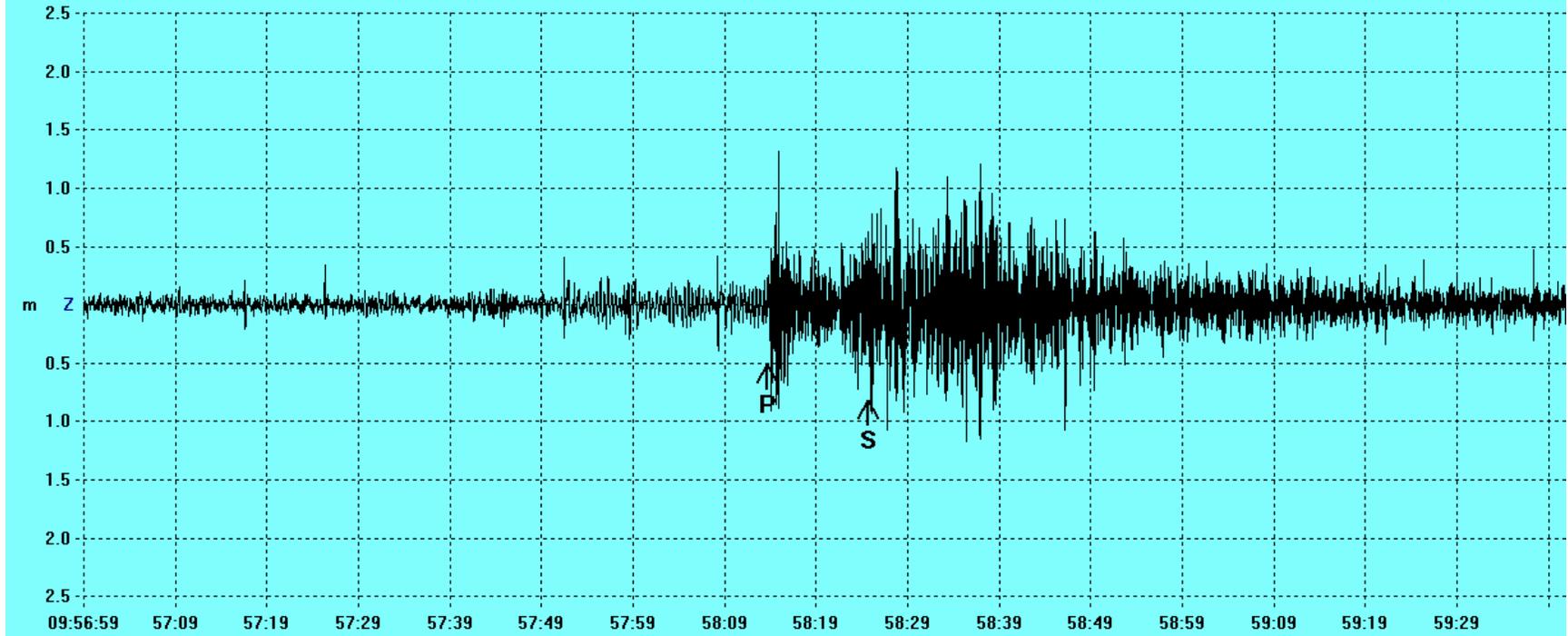
Evento 4.

Start: 11/10/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:38.0 Y: 866.667m Max/Min: 37252/-23546 Peak: 12.68 m/sec View Peak: 858.7 m/sec  
Org: 9:57:55.2 P: 9:58:10.1 S: 9:58:21.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 5.

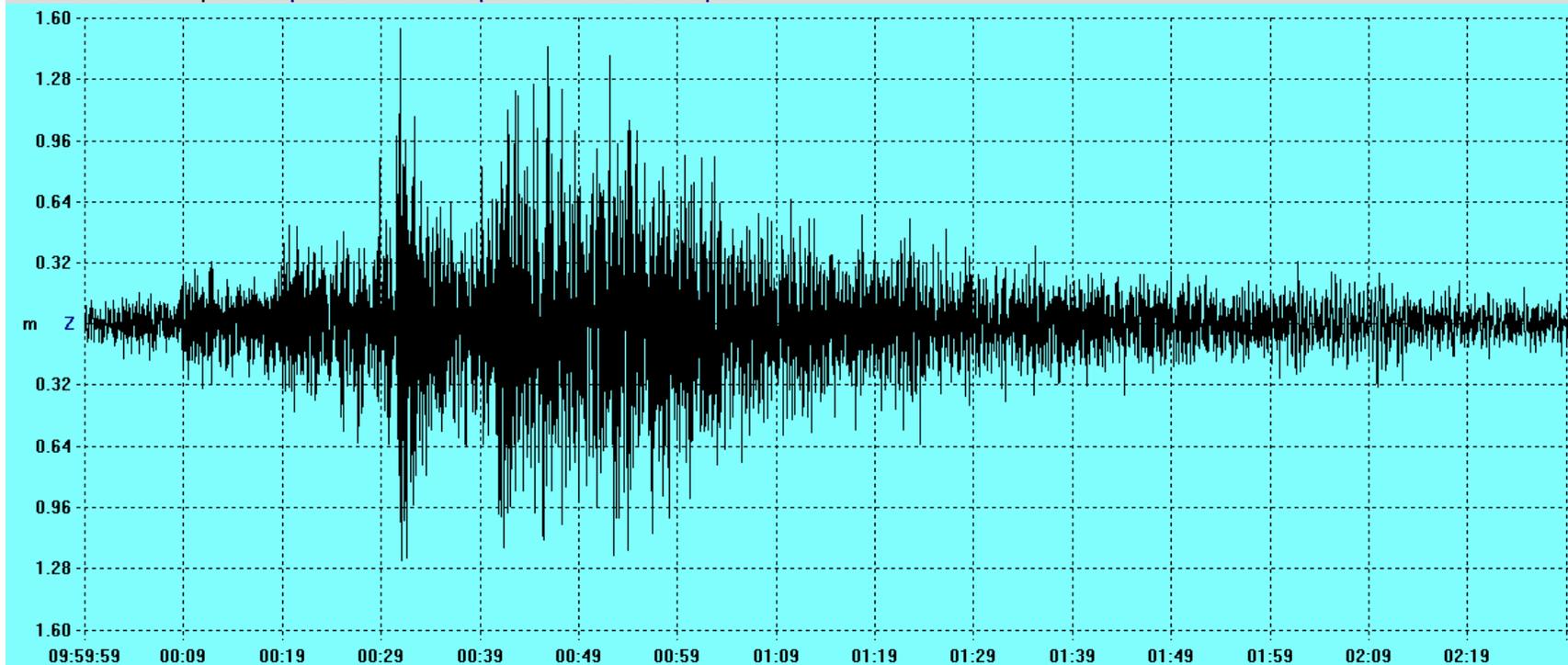
Start: 11/11/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:42.0 Y: 2.5m Max/Min: 6108/-7172 Peak: 2.442 m/sec View Peak: 1.317 m/sec  
Org: 9:57:58.8 P: 9:58:13.7 S: 9:58:24.7 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 6.

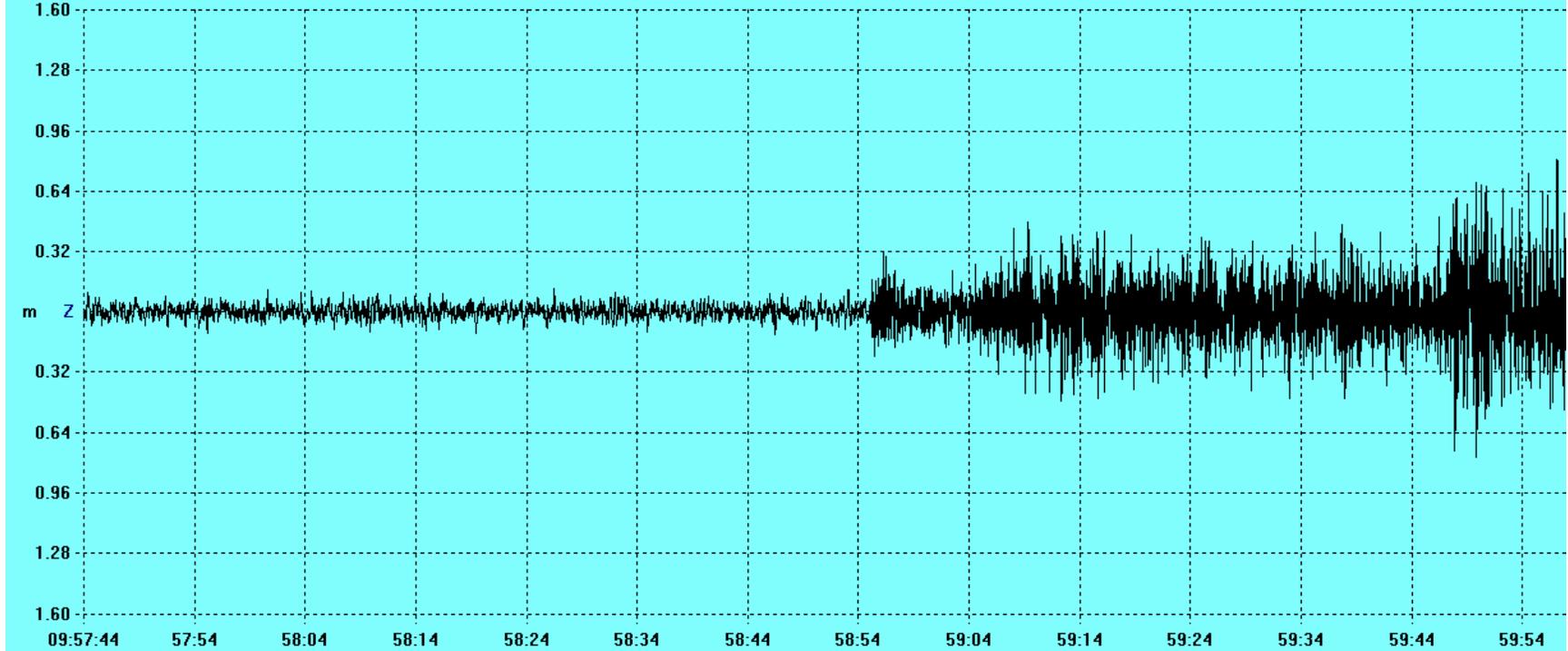
Eventos sobrepostos:

Start: 11/12/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:32.0 Y: 1.6m Max/Min: 4525/-3626 Peak: 1.541 m/sec View Peak: 1.541 m/sec



Evento 7.

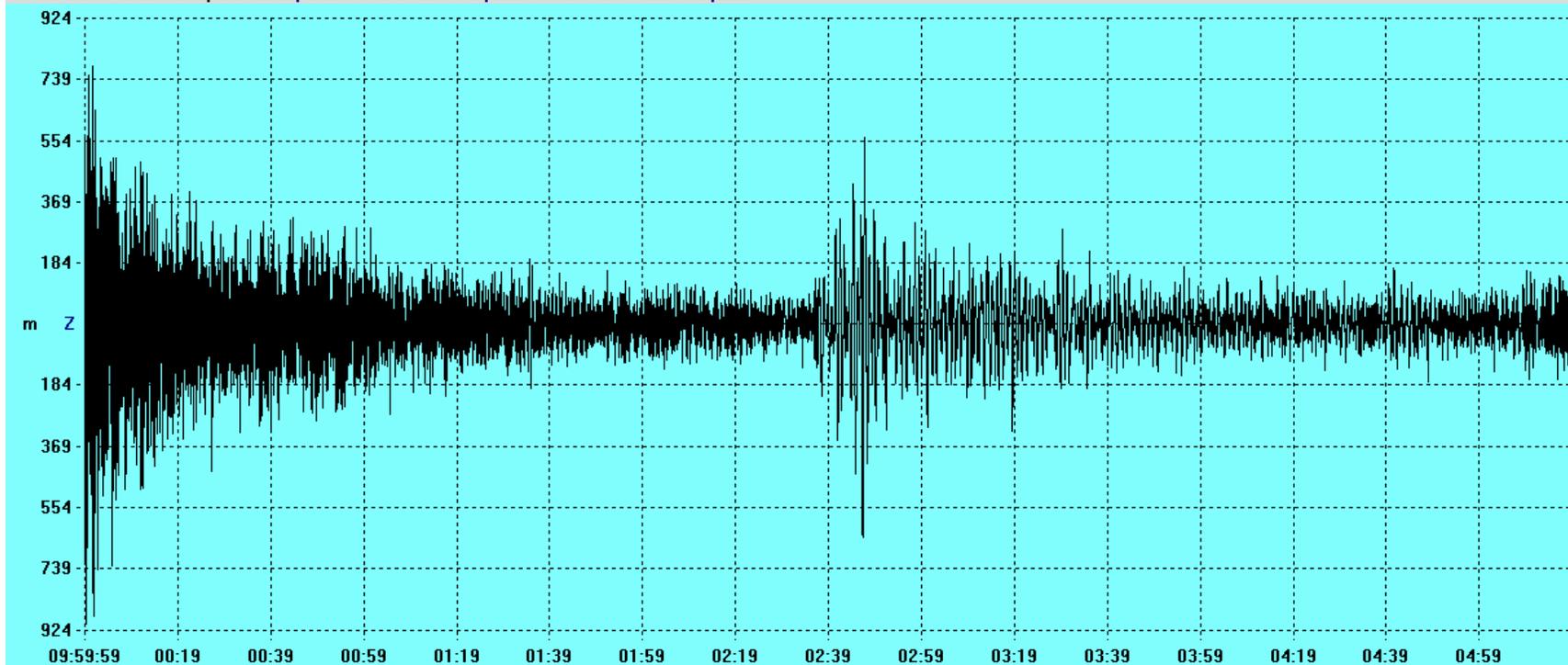
Start: 11/17/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:14.0 Y: 1.6m Max/Min: 4538/-3312 Peak: 1.545 m/sec View Peak: 802.2 m/sec



Evento 8.

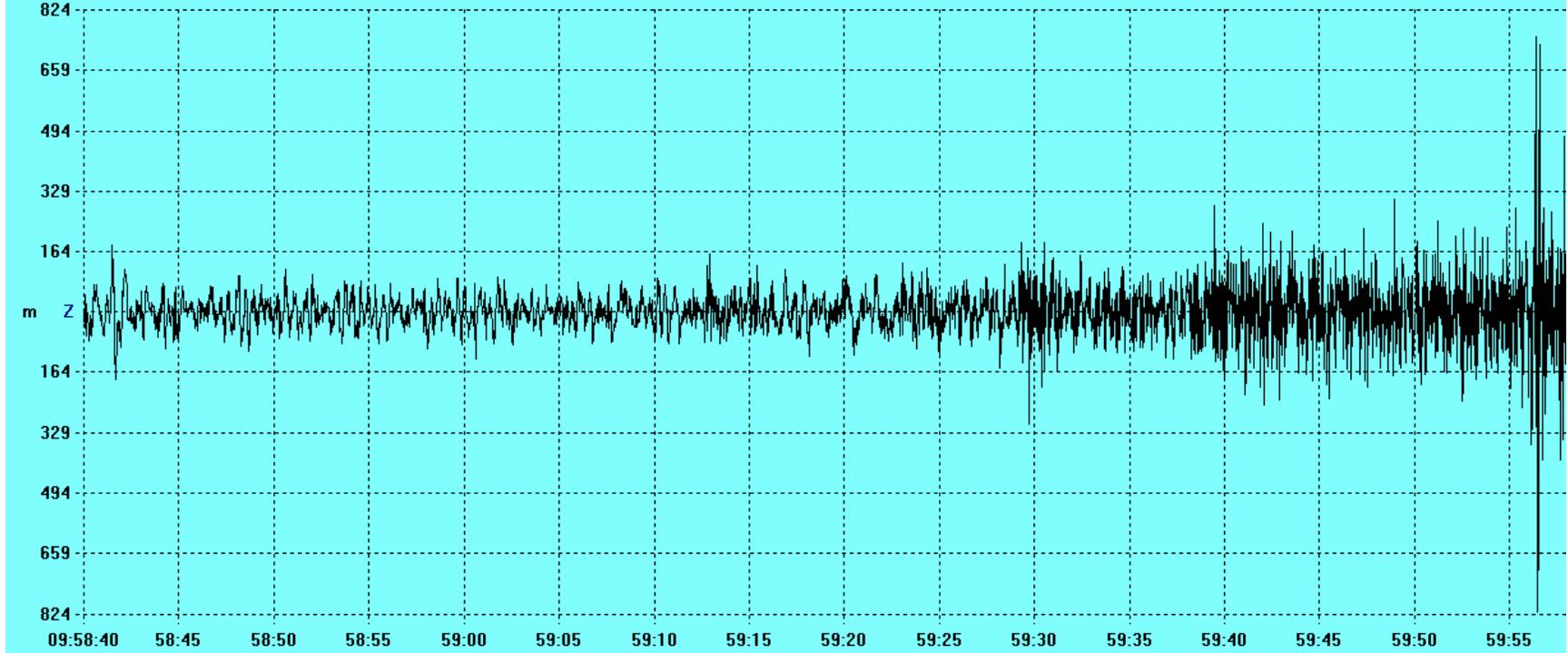
Hora consecutiva à do sismograma acima:

Start: 11/17/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 5:23.0 Y: 925m Max/Min: 2282/-2664 Peak: 907.1 m/sec View Peak: 907.1 m/sec



Evento 8.

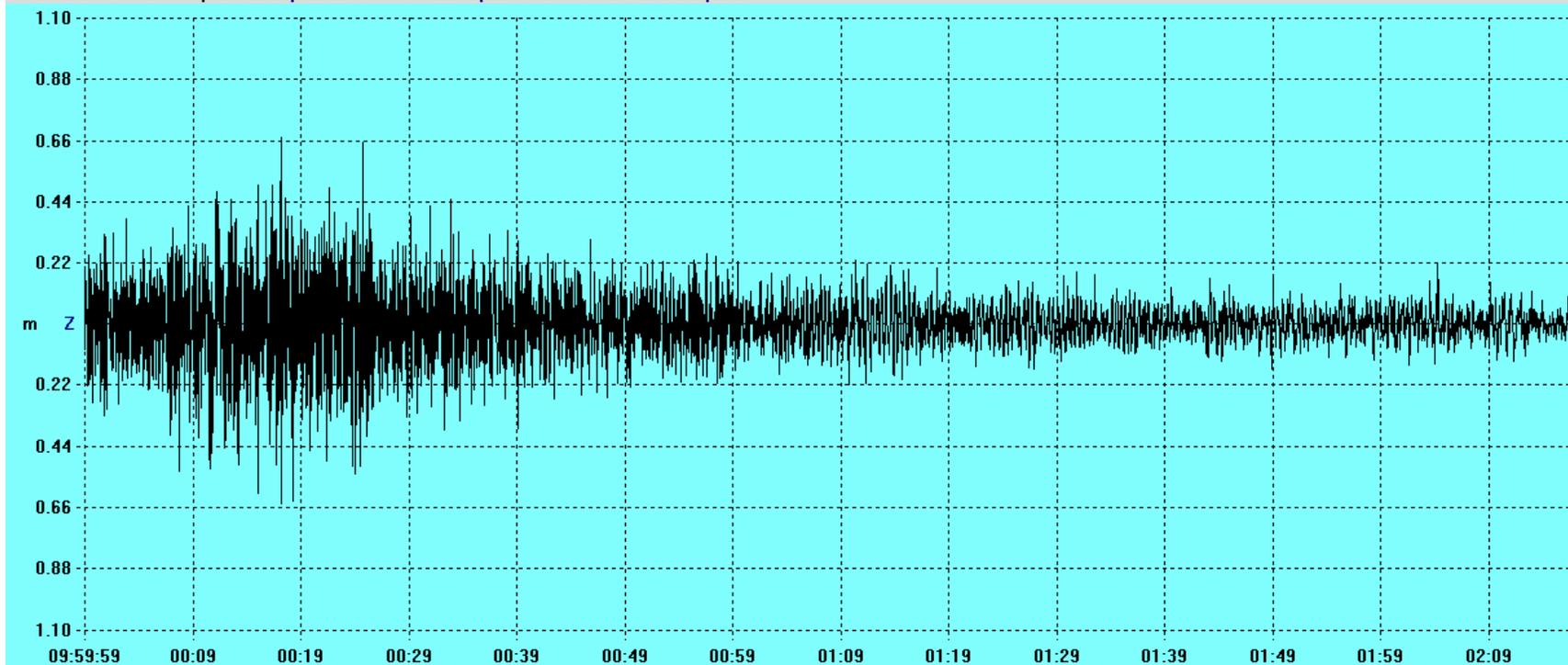
Start: 11/18/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:18.0 Y: 825m Max/Min: 2204/-2403 Peak: 818.3 m/sec View Peak: 818.3 m/sec



Evento 9.

Hora consecutiva à do sismograma acima:

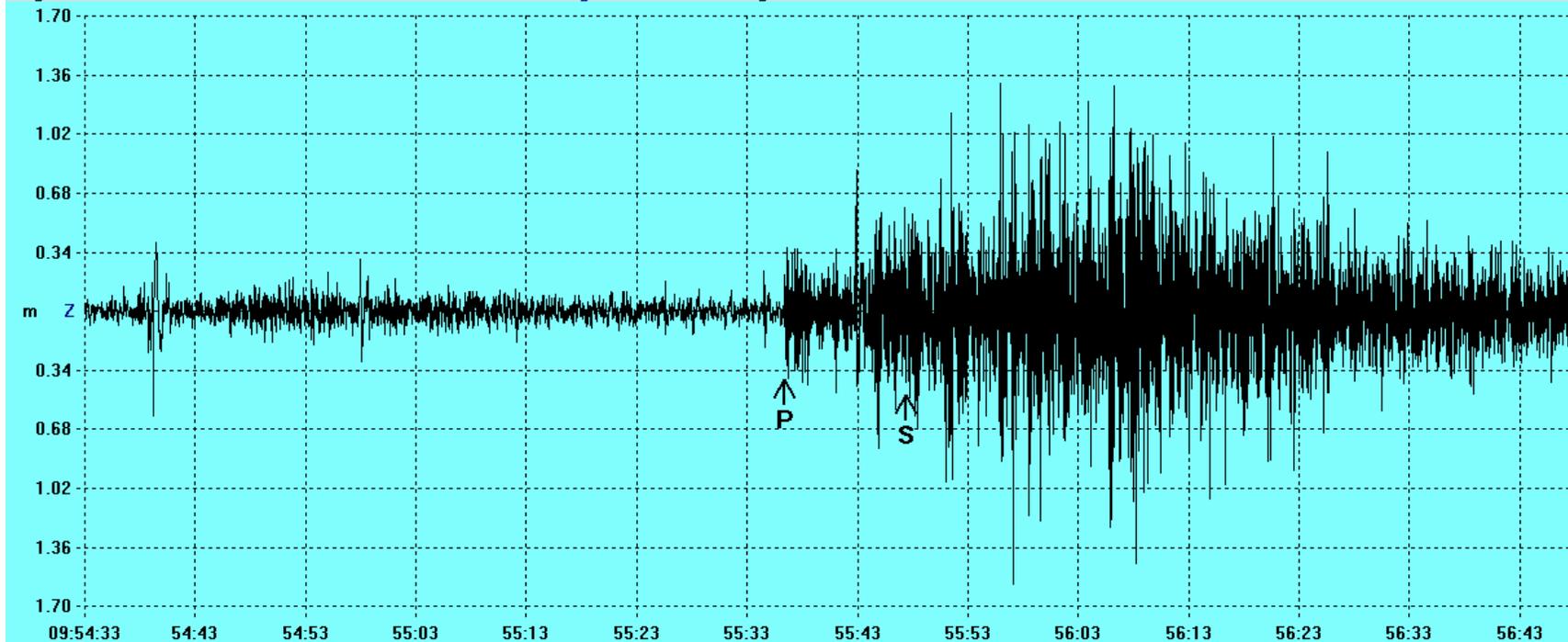
Start: 11/18/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:19.0 Y: 1.1m Max/Min: 2821/-3093 Peak: 1.053 m/sec View Peak: 670.3 m/sec



Evento 9 (eventos sobrepostos).

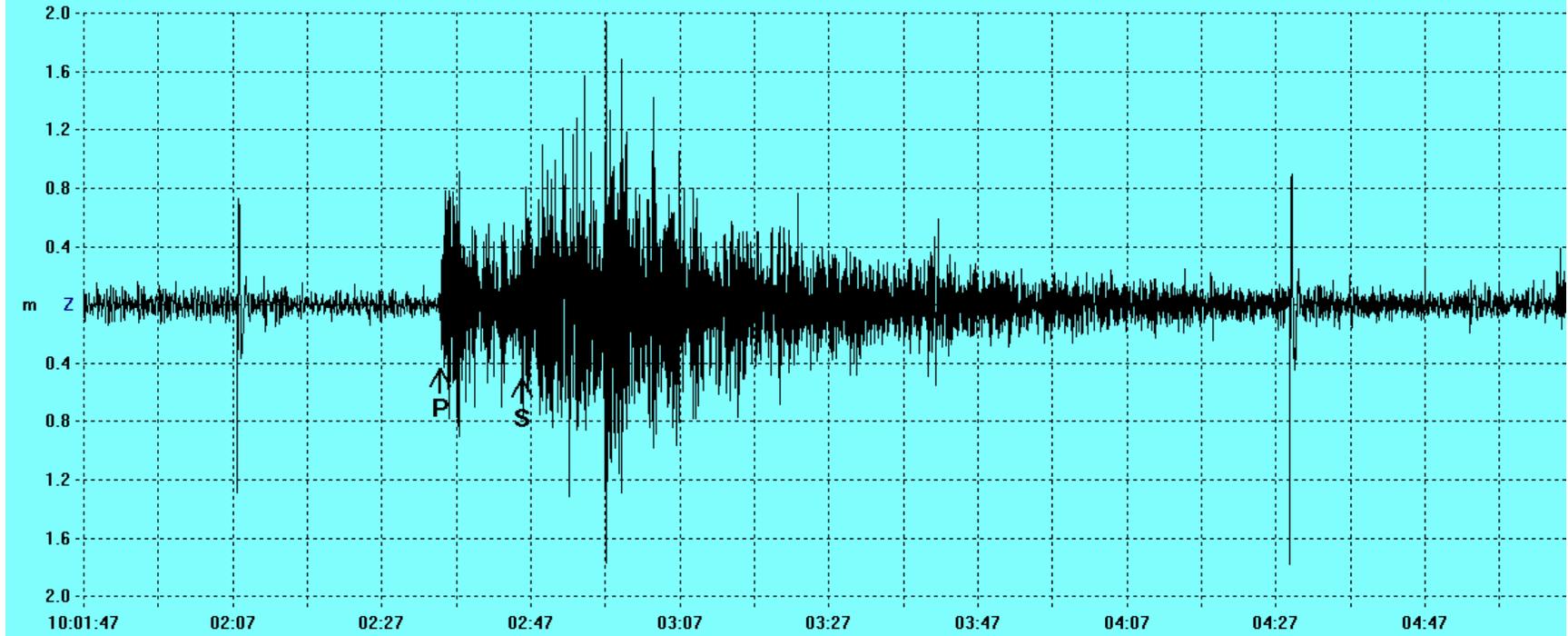
Eventos sobrepostos:

Start: 11/19/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:16.0 Y: 1.7m Max/Min: 4729/-4614 Peak: 1.61 m/sec View Peak: 1.571 m/sec  
Org: 9:55:21.5 P: 9:55:36.4 S: 9:55:47.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



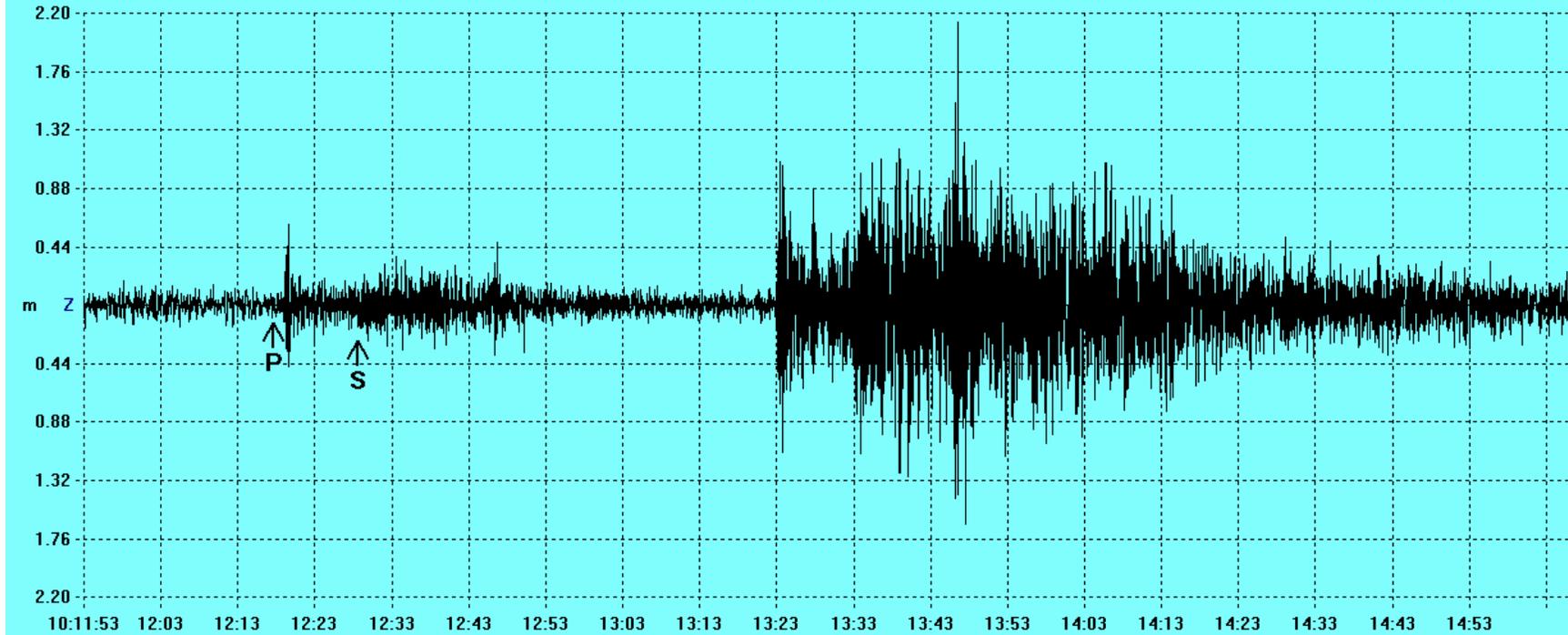
Evento 10.

Start: 11/20/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:19.0 Y: 2m Max/Min: 5679/-5218 Peak: 1.934 m/sec View Peak: 1.934 m/sec  
Org: 10:02:19.9 P: 10:02:34.8 S: 10:02:45.8 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



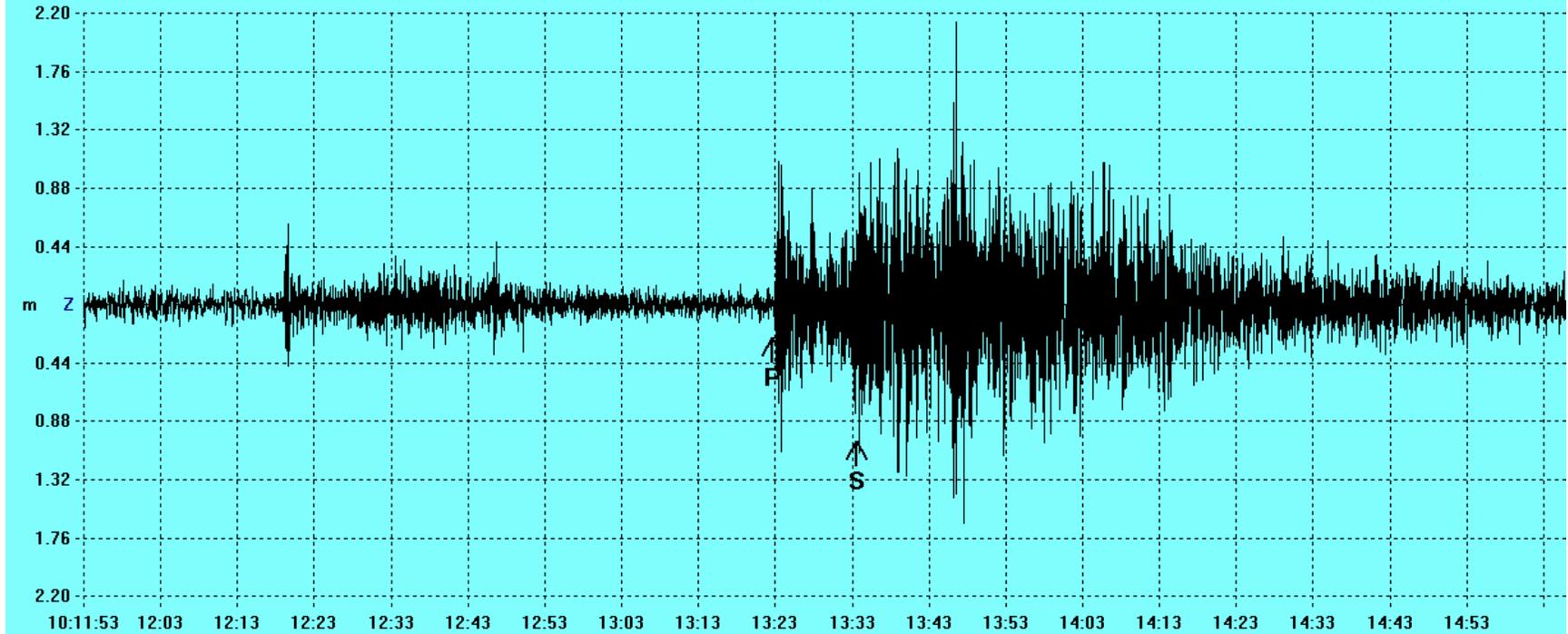
Evento 11.

Start: 11/22/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:13.0 Y: 2.2m Max/Min: 32134/-18445 Peak: 10.94 m/sec View Peak: 2.126 m/sec  
Org: 10:12:02.7 P: 10:12:17.6 S: 10:12:28.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



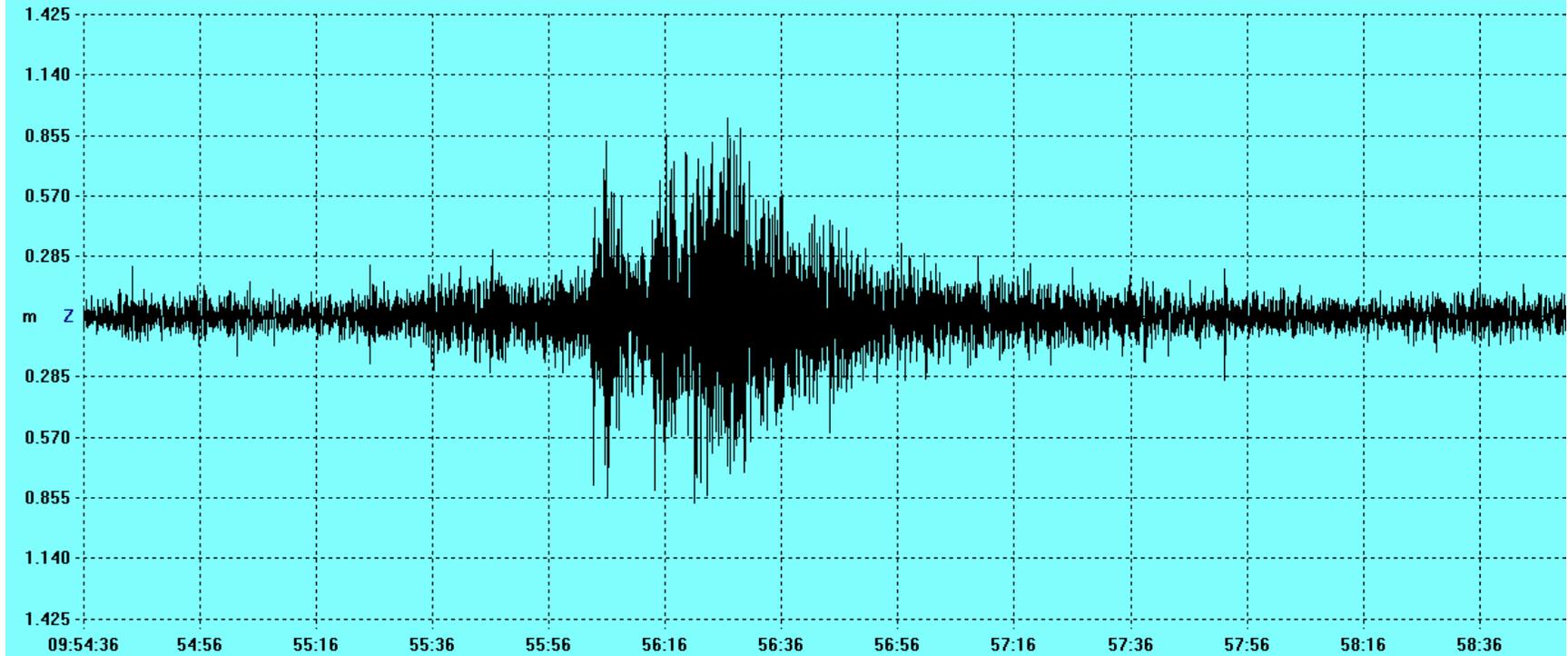
Evento 12.

Start: 11/22/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:13.0 Y: 2.2m Max/Min: 32134/-18445 Peak: 10.94 m/sec View Peak: 2.126 m/sec  
Org: 10:13:07.7 P: 10:13:22.6 S: 10:13:33.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



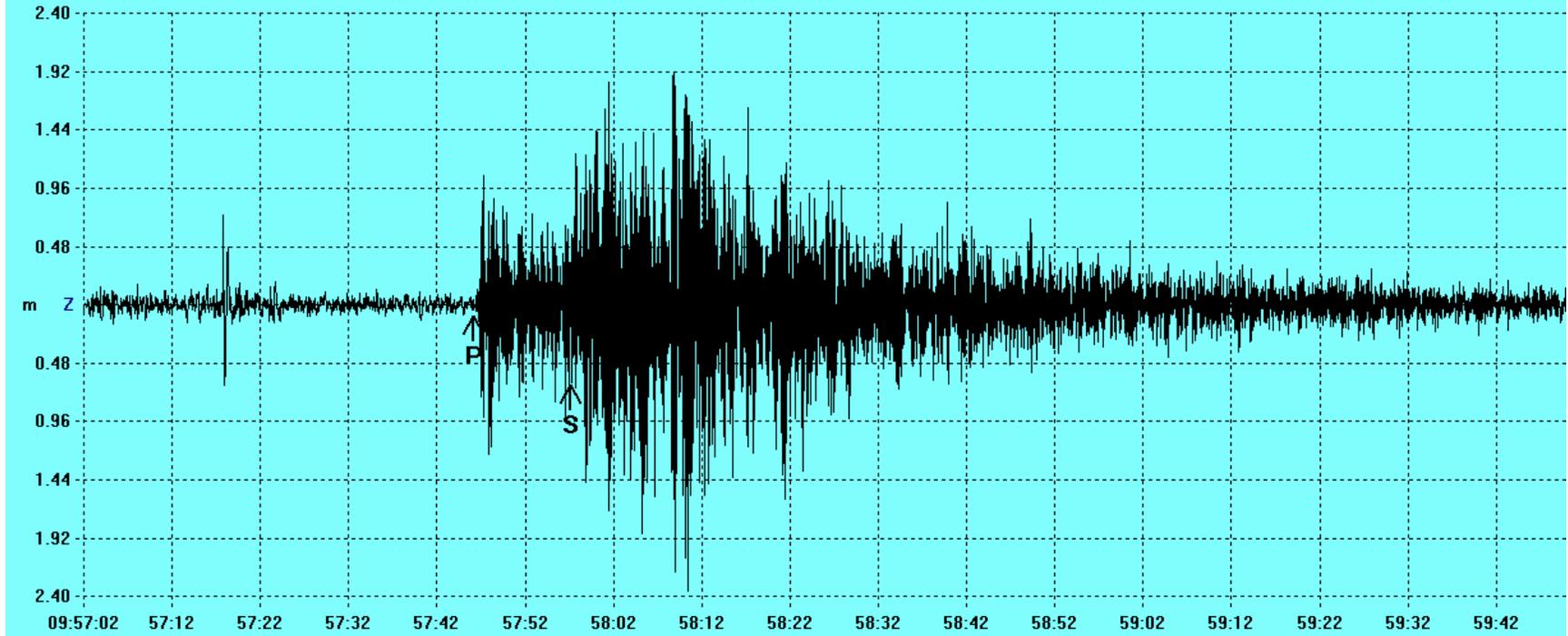
Evento 12.

Start: 11/23/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 4:15.0 Y: 1.425m Max/Min: 2737/-2587 Peak: 932.1 m/sec View Peak: 932.1 m/sec



Evento 13.

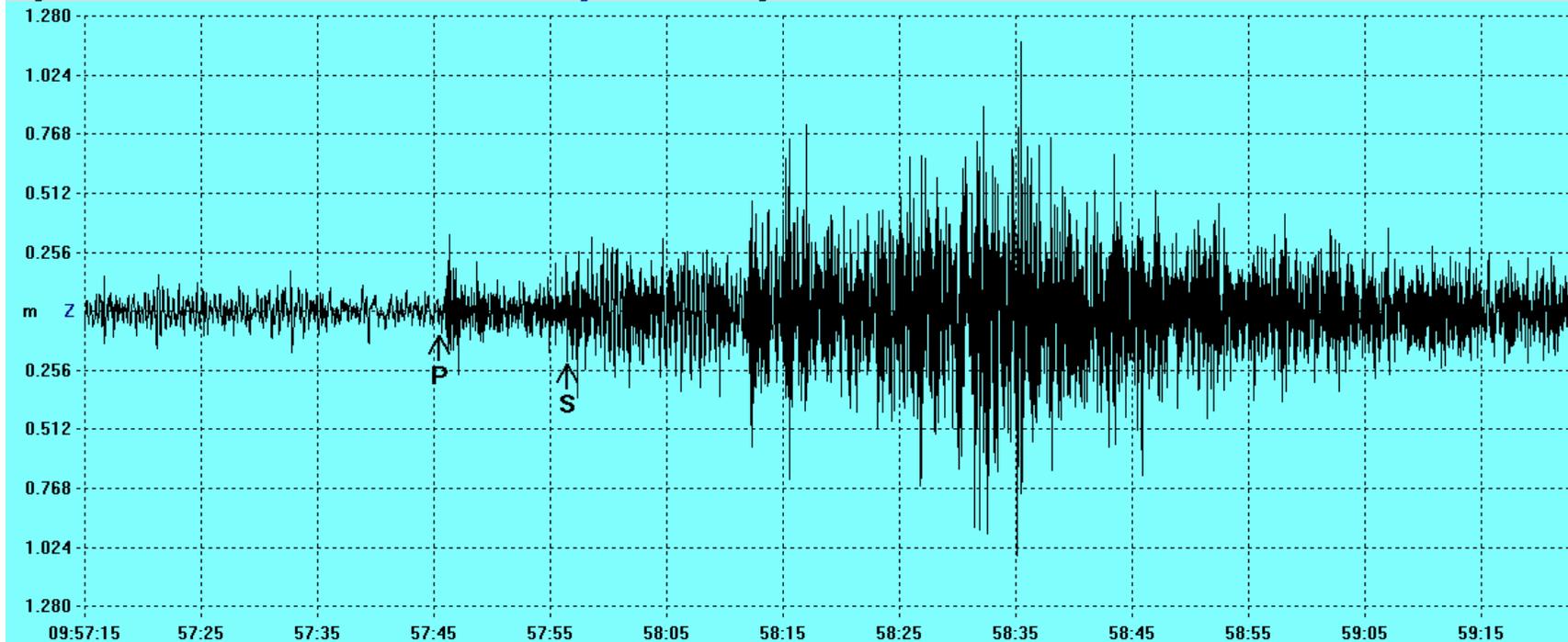
Start: 11/24/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:48.0 Y: 2.4m Max/Min: 5612/-6904 Peak: 2.351 m/sec View Peak: 2.351 m/sec  
Org: 9:57:31.2 P: 9:57:46.1 S: 9:57:57.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 14.

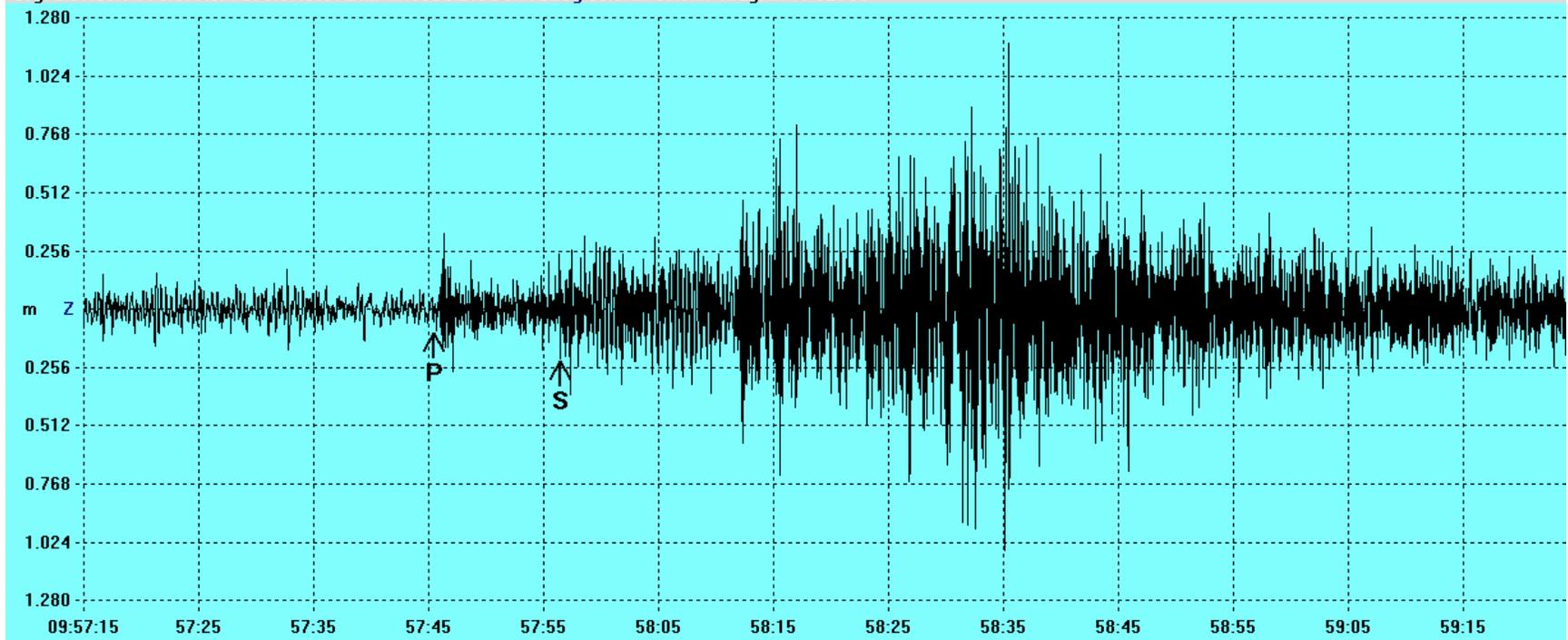
Eventos sobrepostos:

Start: 11/25/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:09.0 Y: 1.28m Max/Min: 9183/-7594 Peak: 3.127 m/sec View Peak: 1.164 m/sec  
Org: 9:57:30.5 P: 9:57:45.4 S: 9:57:56.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 15.

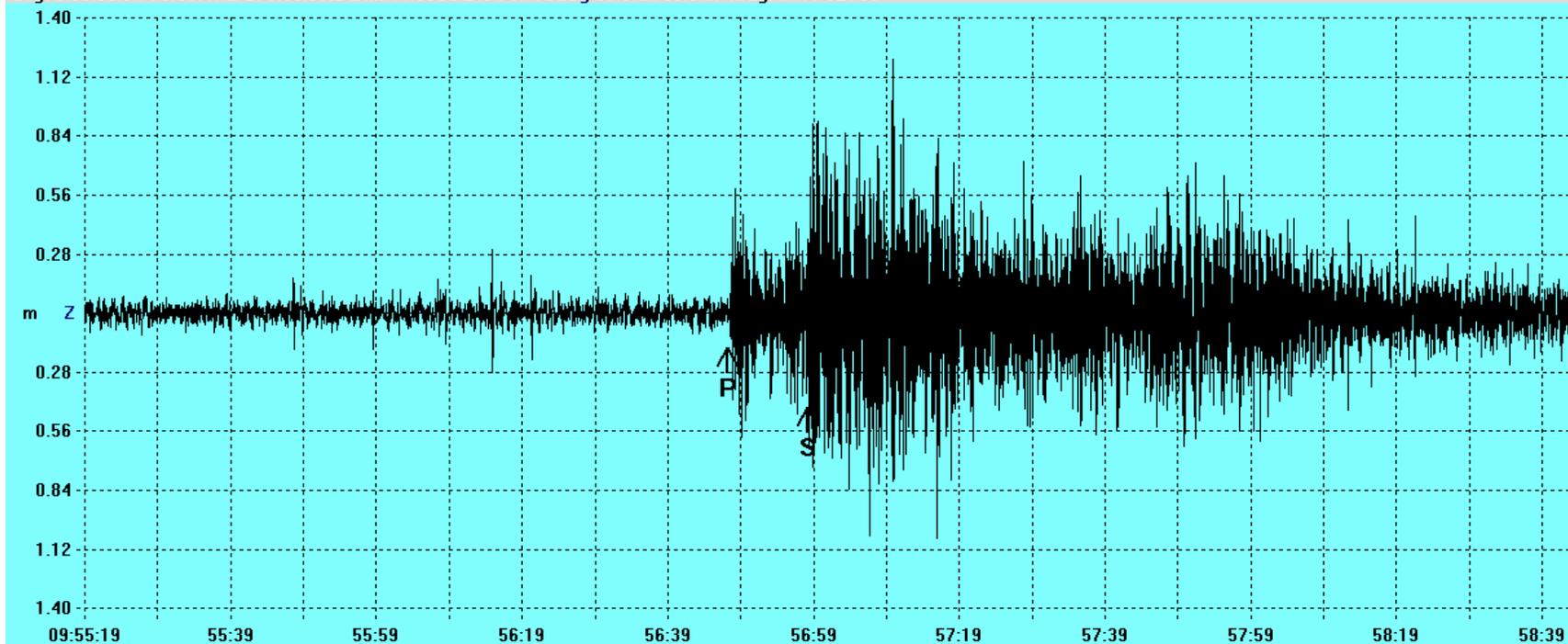
Start: 11/25/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:09.0 Y: 1.28m Max/Min: 9183/-7594 Peak: 3.127 m/sec View Peak: 1.164 m/sec  
Org: 9:57:30.5 P: 9:57:45.4 S: 9:57:56.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 15.

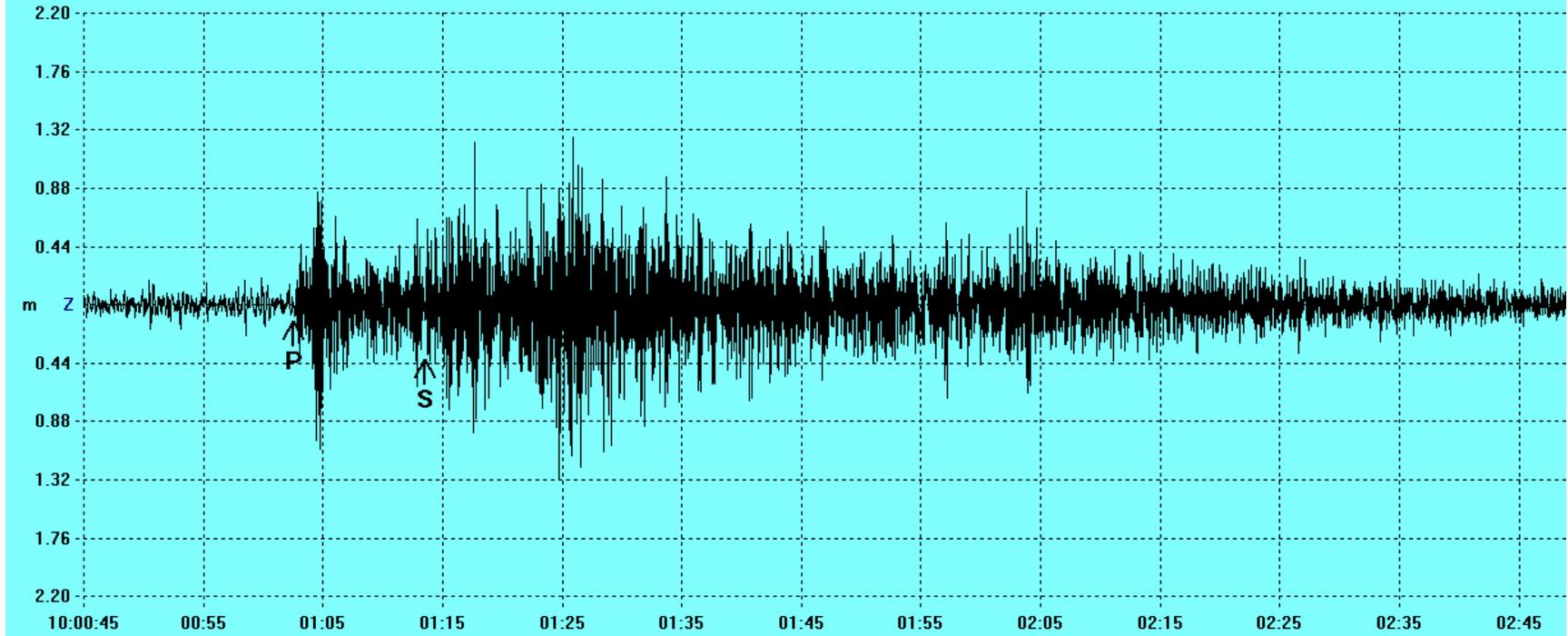
Eventos sobrepostos:

Start: 11/27/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:26.0 Y: 1.4m Max/Min: 121125/-80161 Peak: 41.24 m/sec View Peak: 1.201 m/sec  
Org: 9:56:32.3 P: 9:56:47.2 S: 9:56:58.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



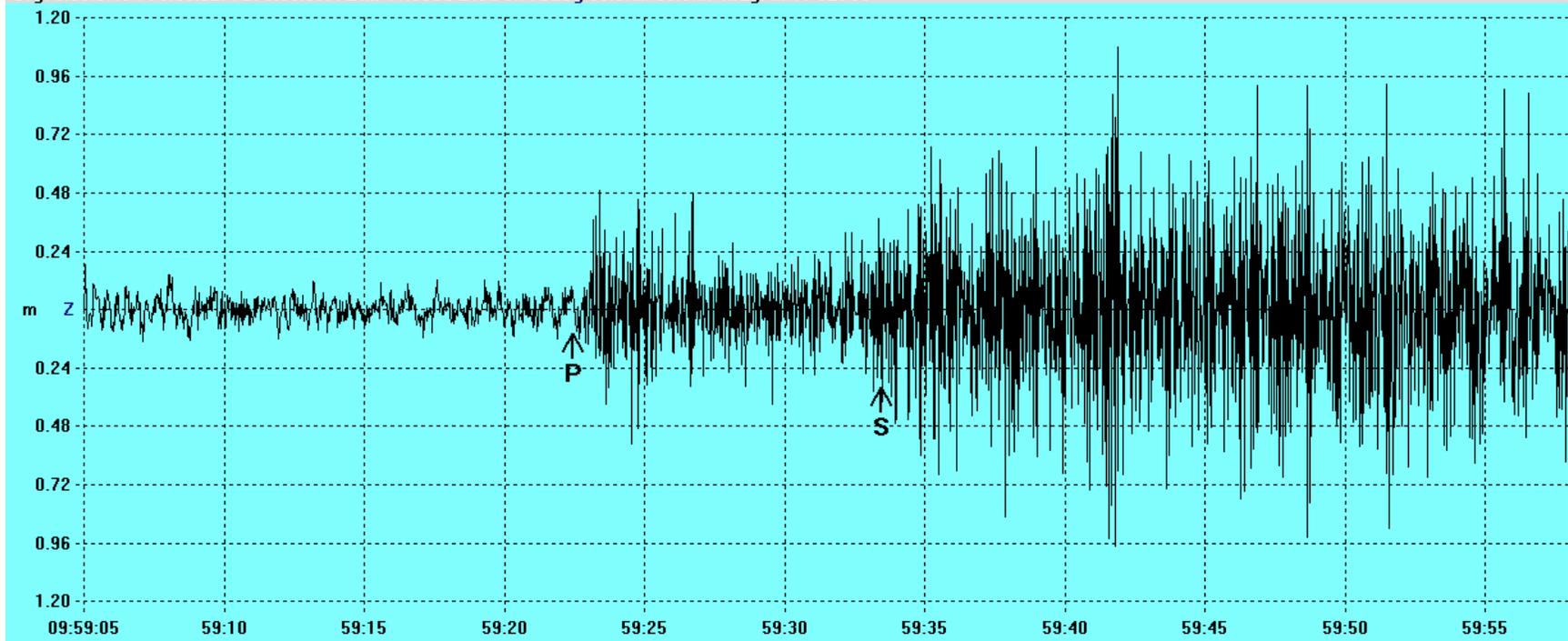
Evento 16.

Start: 11/29/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:04.0 Y: 2.2m Max/Min: 4720/-6185 Peak: 2.106 m/sec View Peak: 1.311 m/sec  
Org: 10:00:47.6 P: 10:01:02.5 S: 10:01:13.5 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 17 (eventos sobrepostos).

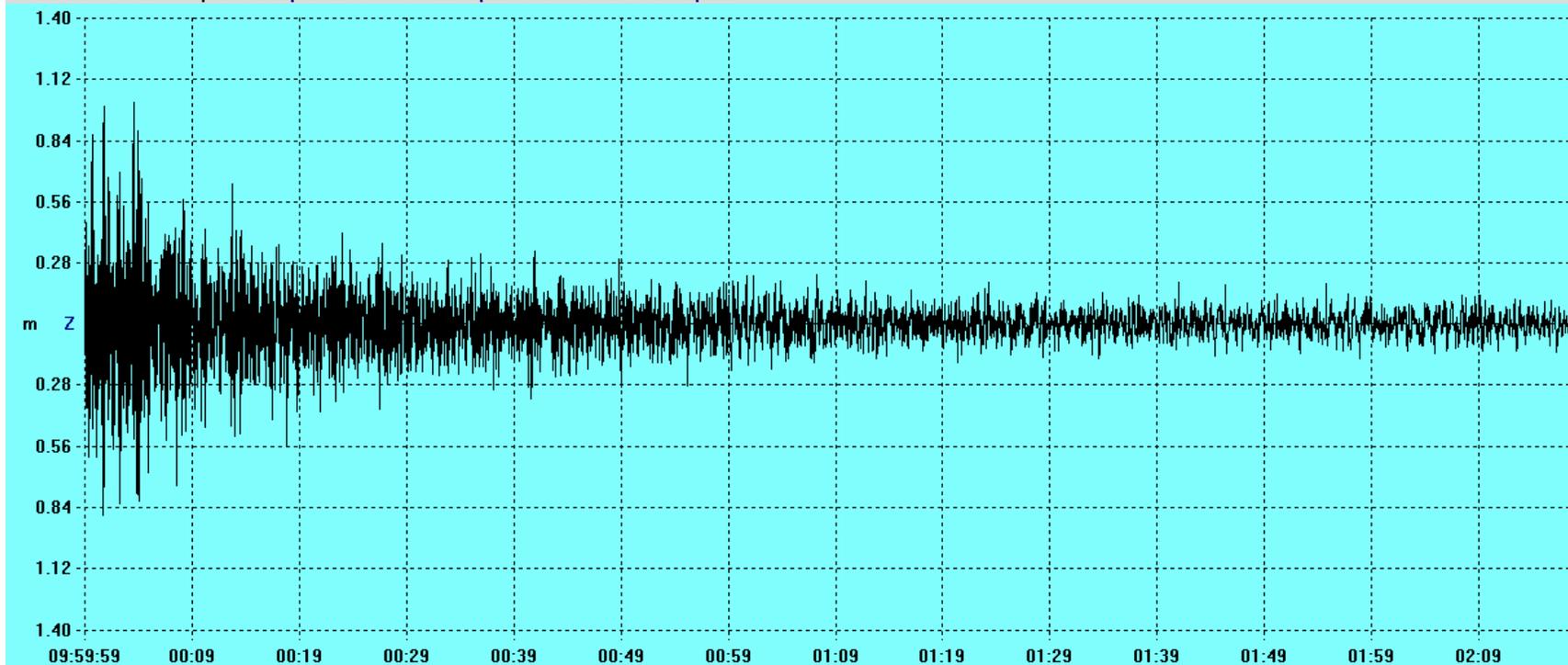
Start: 11/30/11 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 53.0 Y: 1.2m Max/Min: 3333/-2852 Peak: 1.135 m/sec View Peak: 1.079 m/sec  
Org: 9:59:07.5 P: 9:59:22.4 S: 9:59:33.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 18.

Hora consecutiva à do sismograma acima:

Start: 11/30/11 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:20.0 Y: 1.4m Max/Min: 4008/-3709 Peak: 1.365 m/sec View Peak: 1.01 m/sec



Evento 18.