

Apêndice

Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio

Outubro 2012

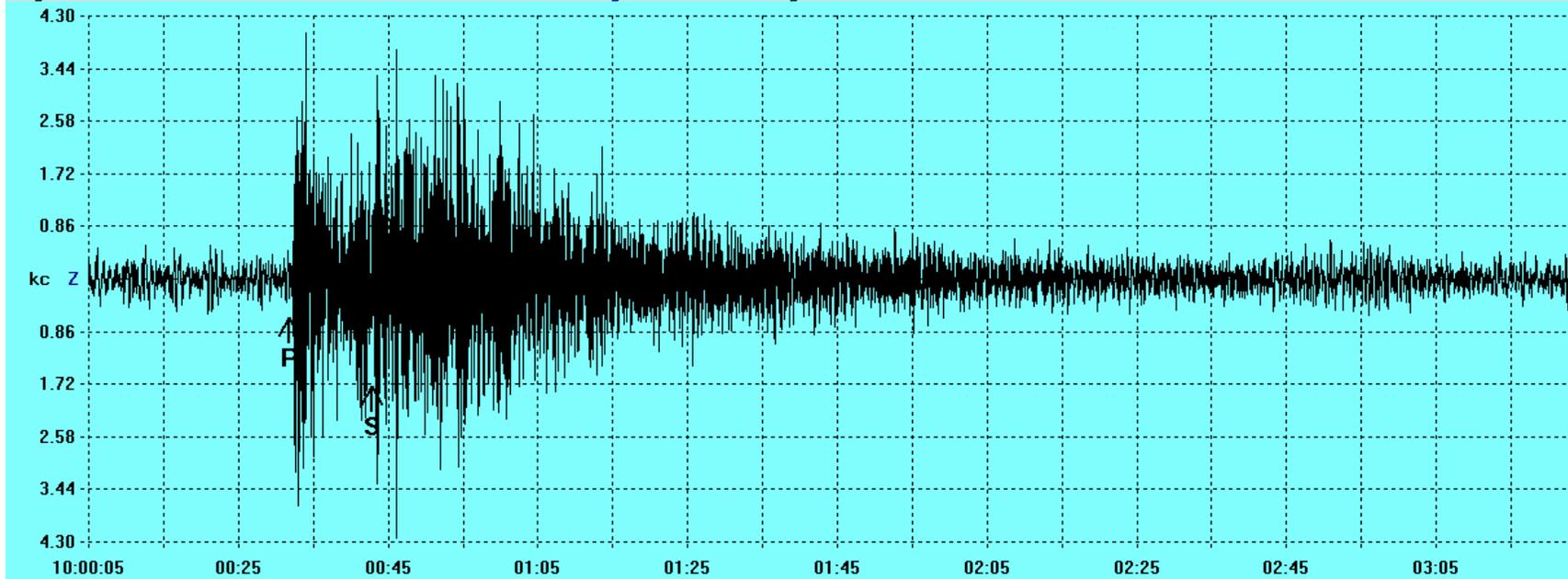
Registros das Estações SAML, SANT1 e SANT2

Observação

Todos os registros da estação SAML mostrados nesta seção foram filtrados com um filtro do tipo high-pass (acima de 1.0 Hz, com 4 polos). Quando foi empregado outro tipo de filtro, o procedimento foi indicado em cada caso. Todos os registros das estações SANT1 e SANT2 mostrados nesta seção foram filtrados com um filtro do tipo high-pass acima de 0.1 Hz.

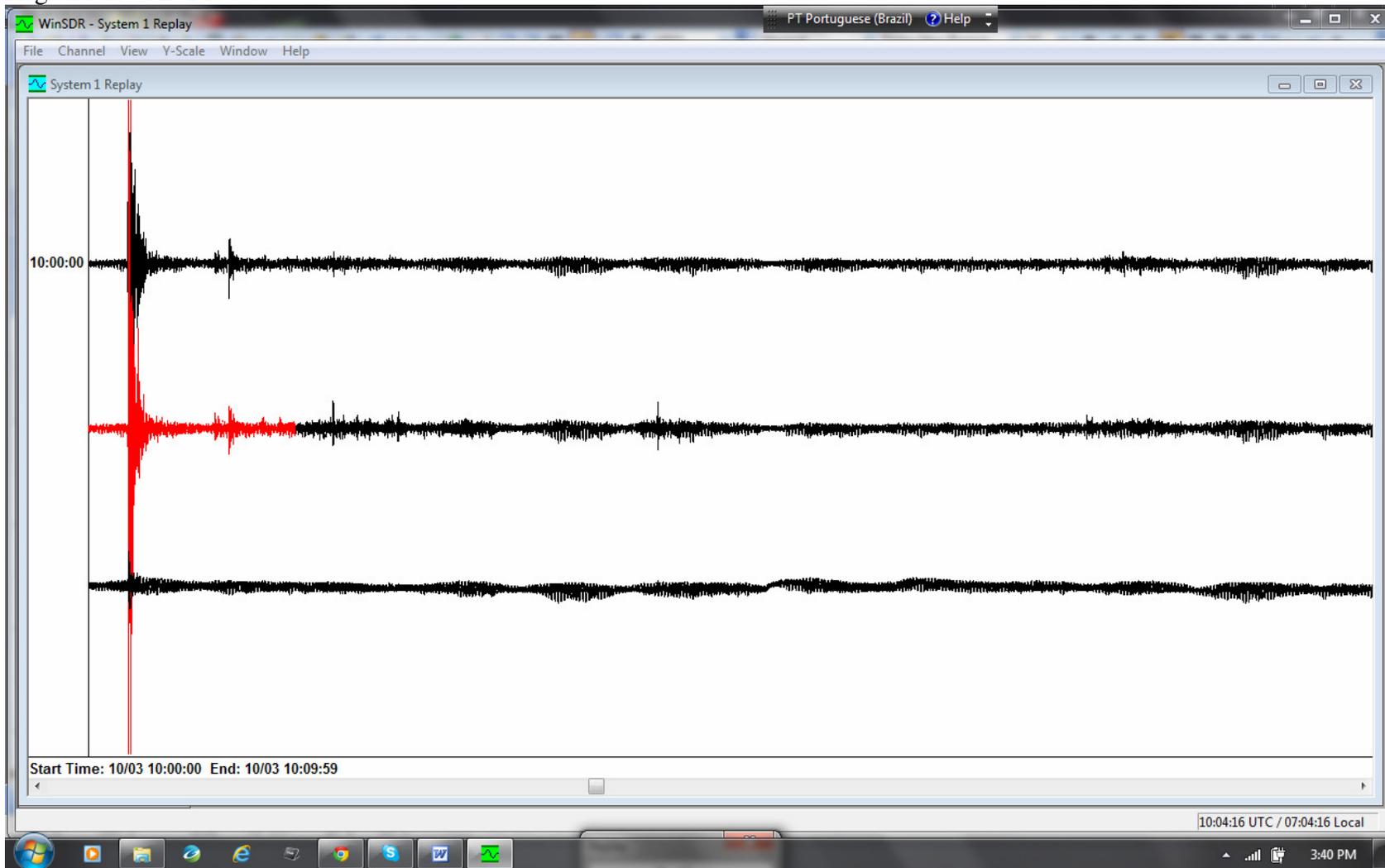
Registro de SAML:

Start: 10/03/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4056/-4228 X: 3.20.0 Y: 4.3kc
Org: 10:00:16.9 P: 10:00:31.8 S: 10:00:42.8 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



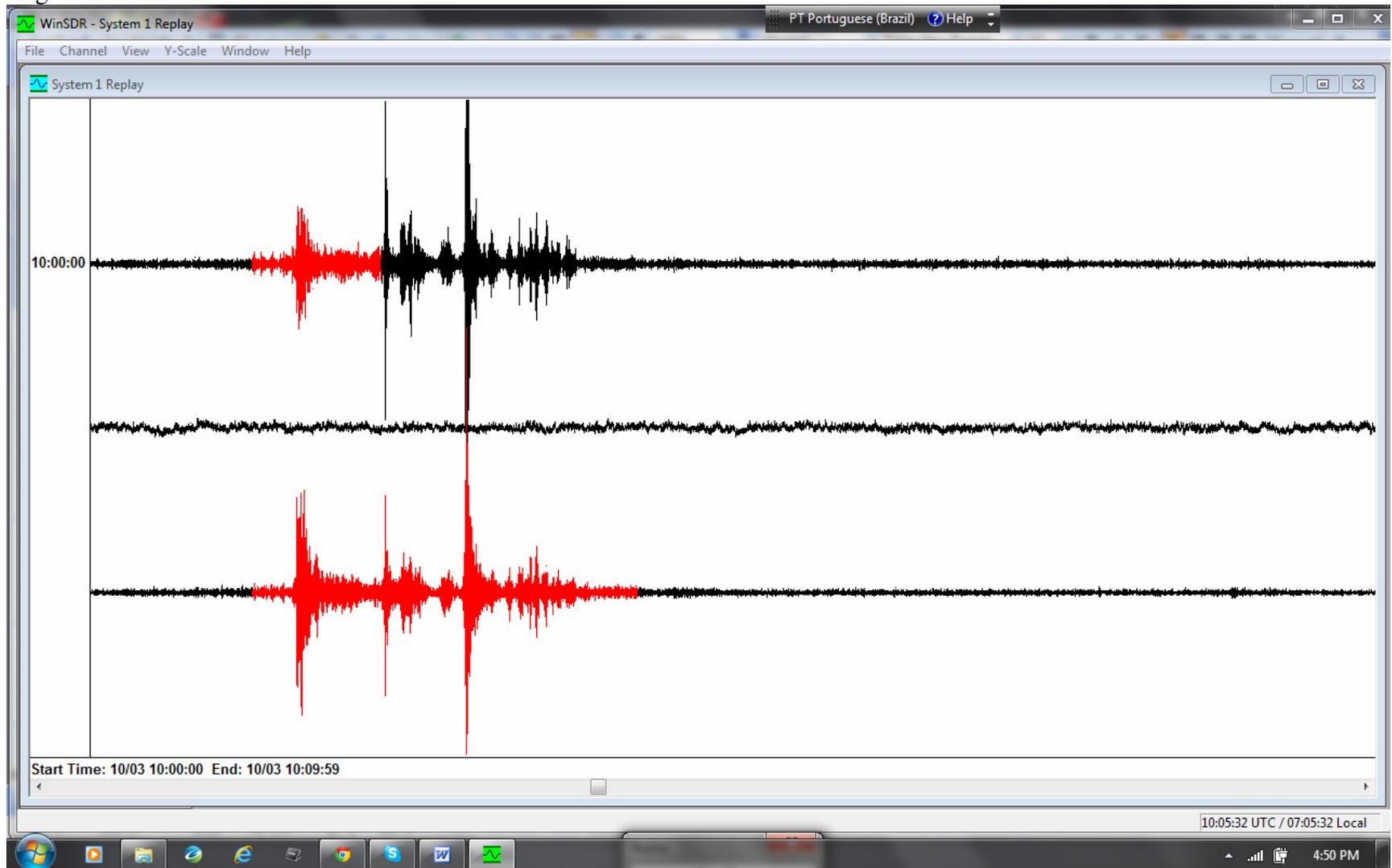
Evento 1

Registro de SANT1:

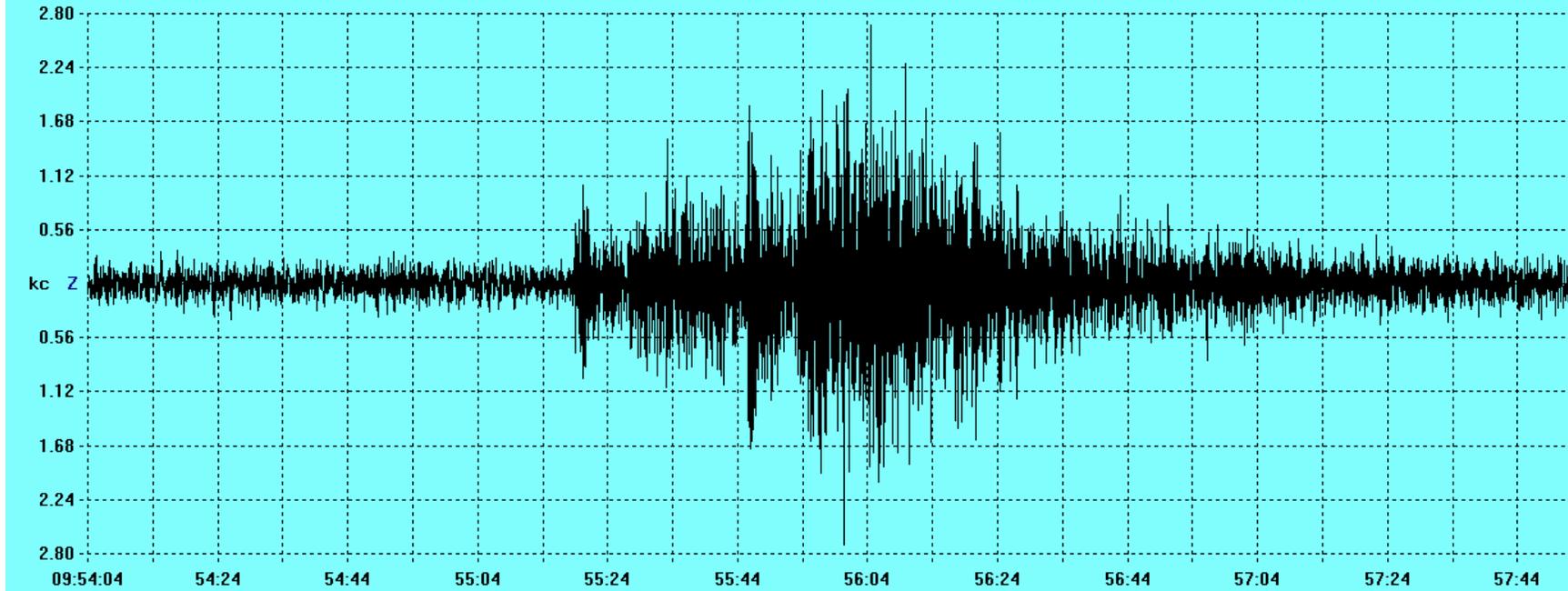


Evento 1

Registro de SANT2:

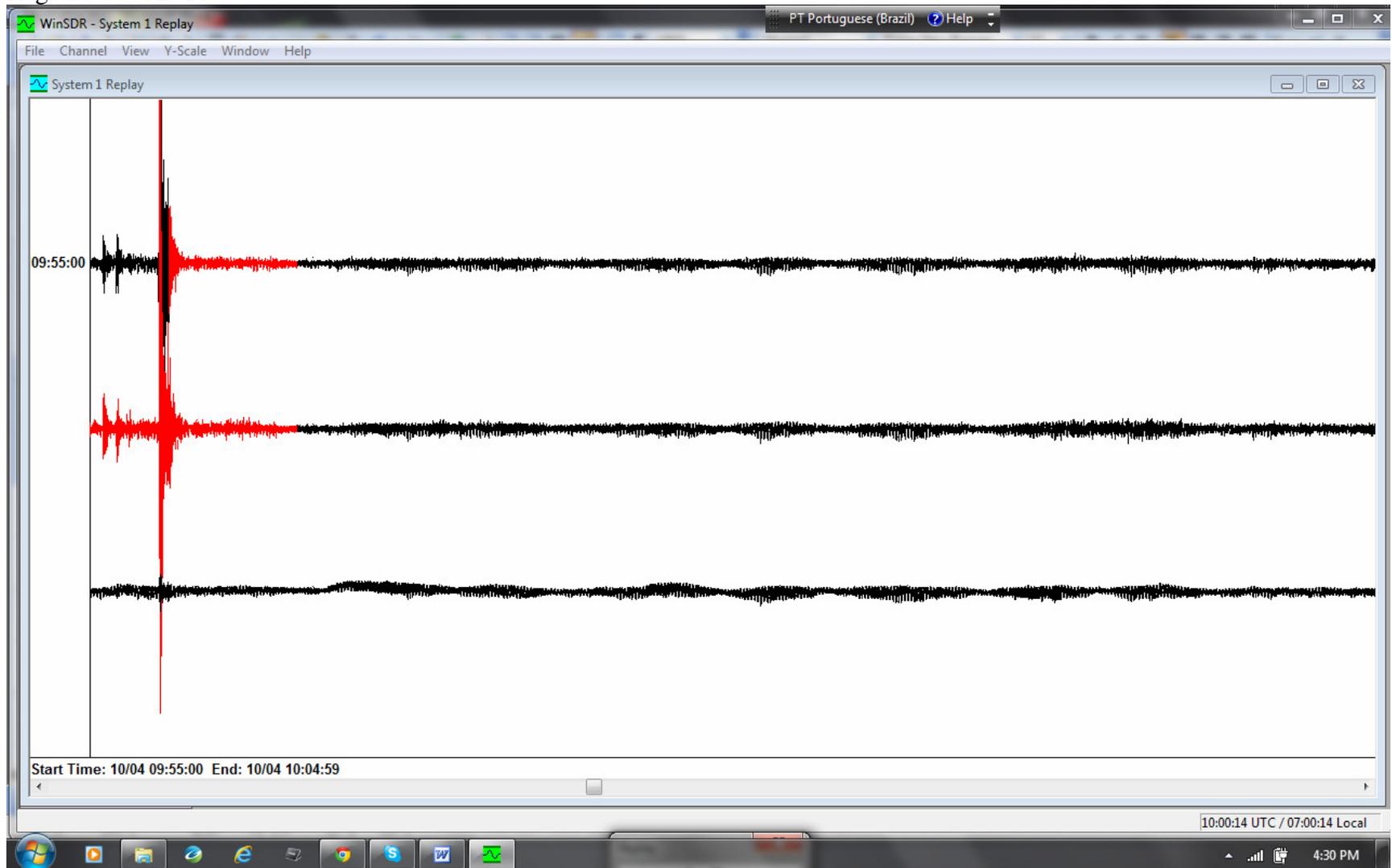


Start: 10/04/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2682/-2708 X: 3:48.0 Y: 2.8kc

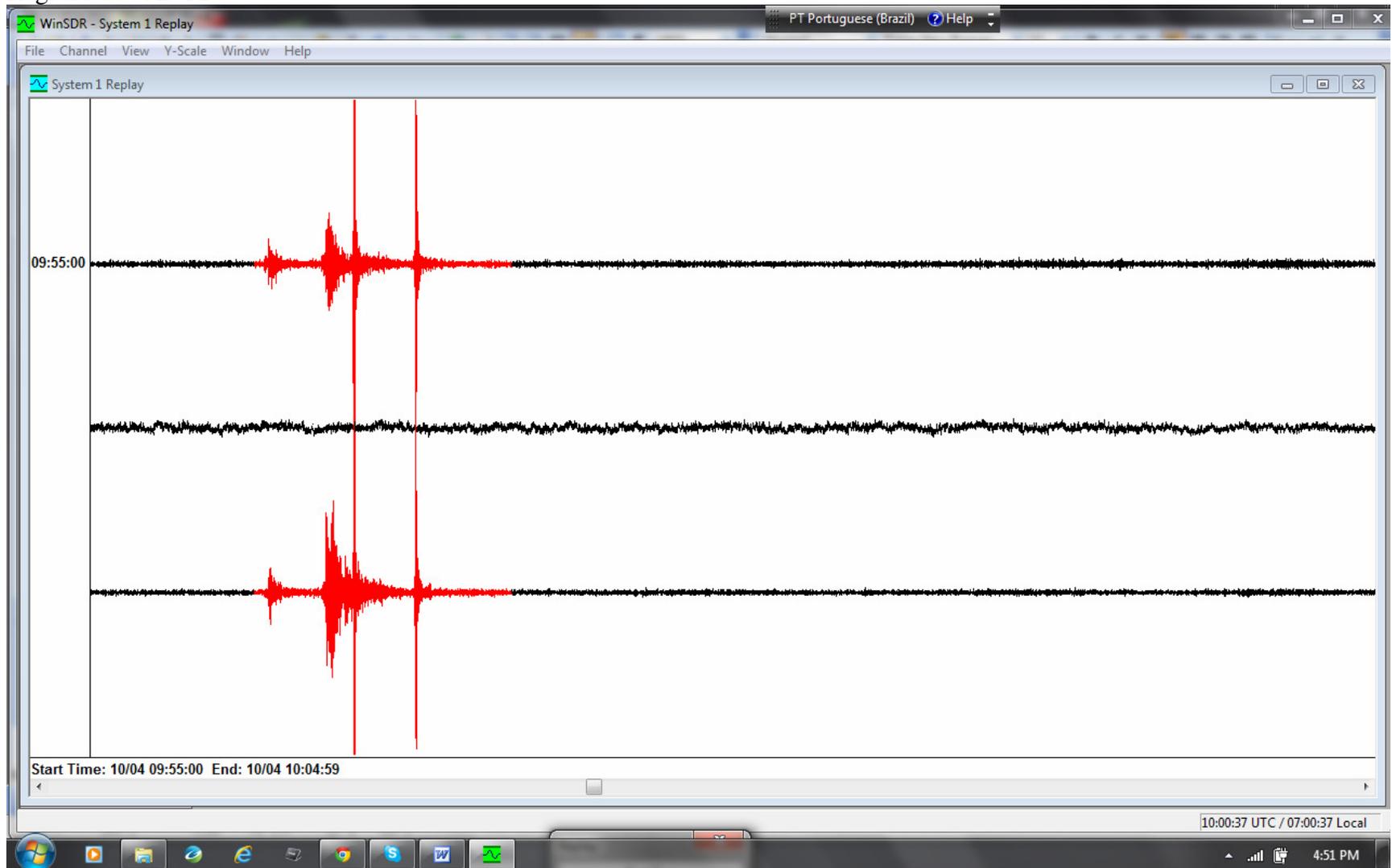


Evento 2 – eventos superpuestos.

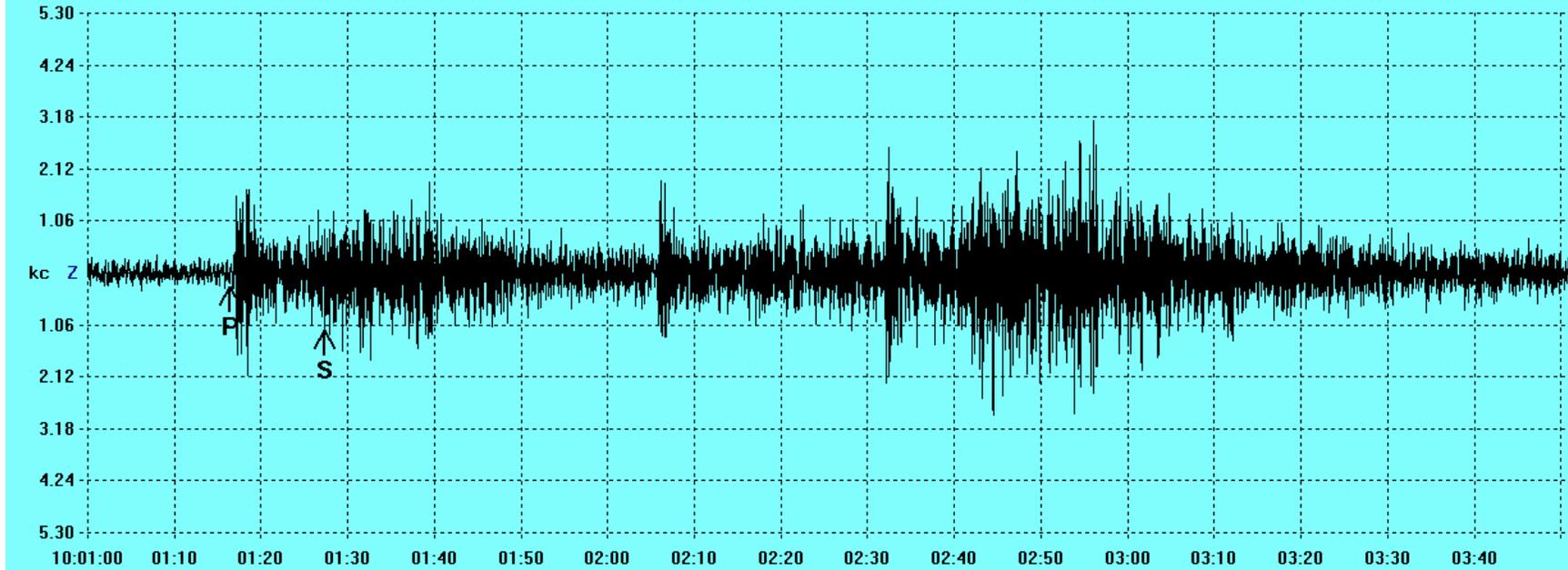
Registro de SANT1:



Registro de SANT2:

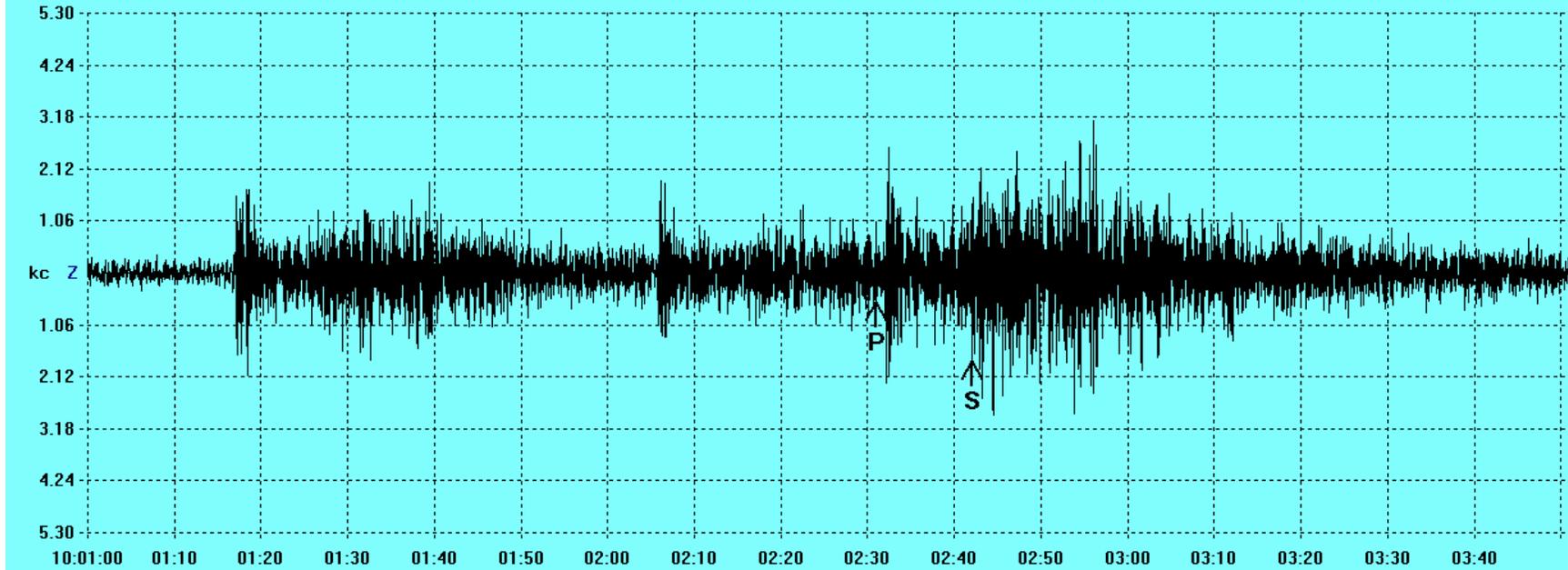


Start: 10/05/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 5257/-2898 X: 2:51.0 Y: 5.3kc
Org: 10:01:01.7 P: 10:01:16.4 S: 10:01:27.3 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



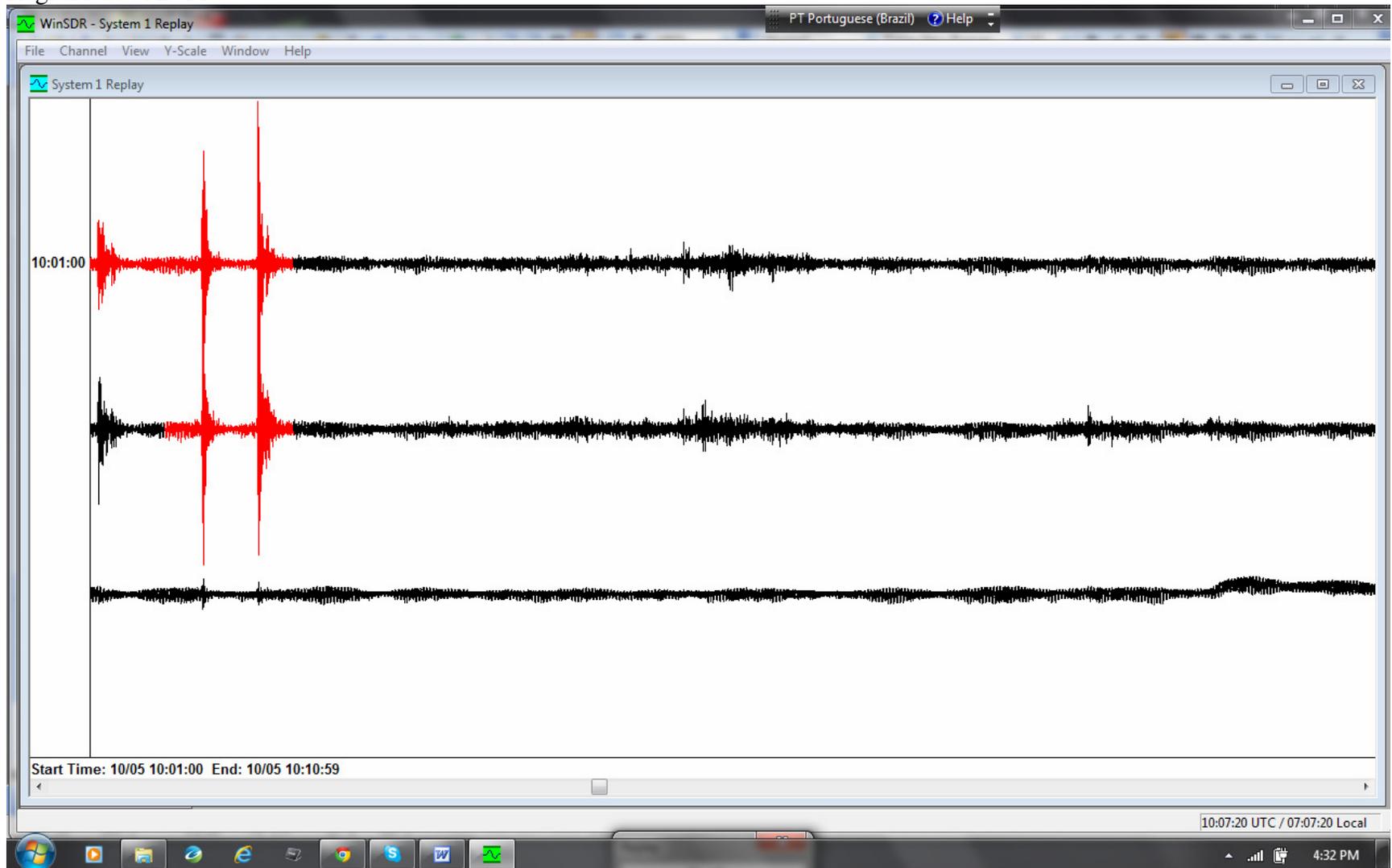
Evento 3 – eventos superpuestos.

Start: 10/05/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 5257/-2898 X: 2:51.0 Y: 5.3kc
Org: 10:02:16.1 P: 10:02:31.0 S: 10:02:42.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

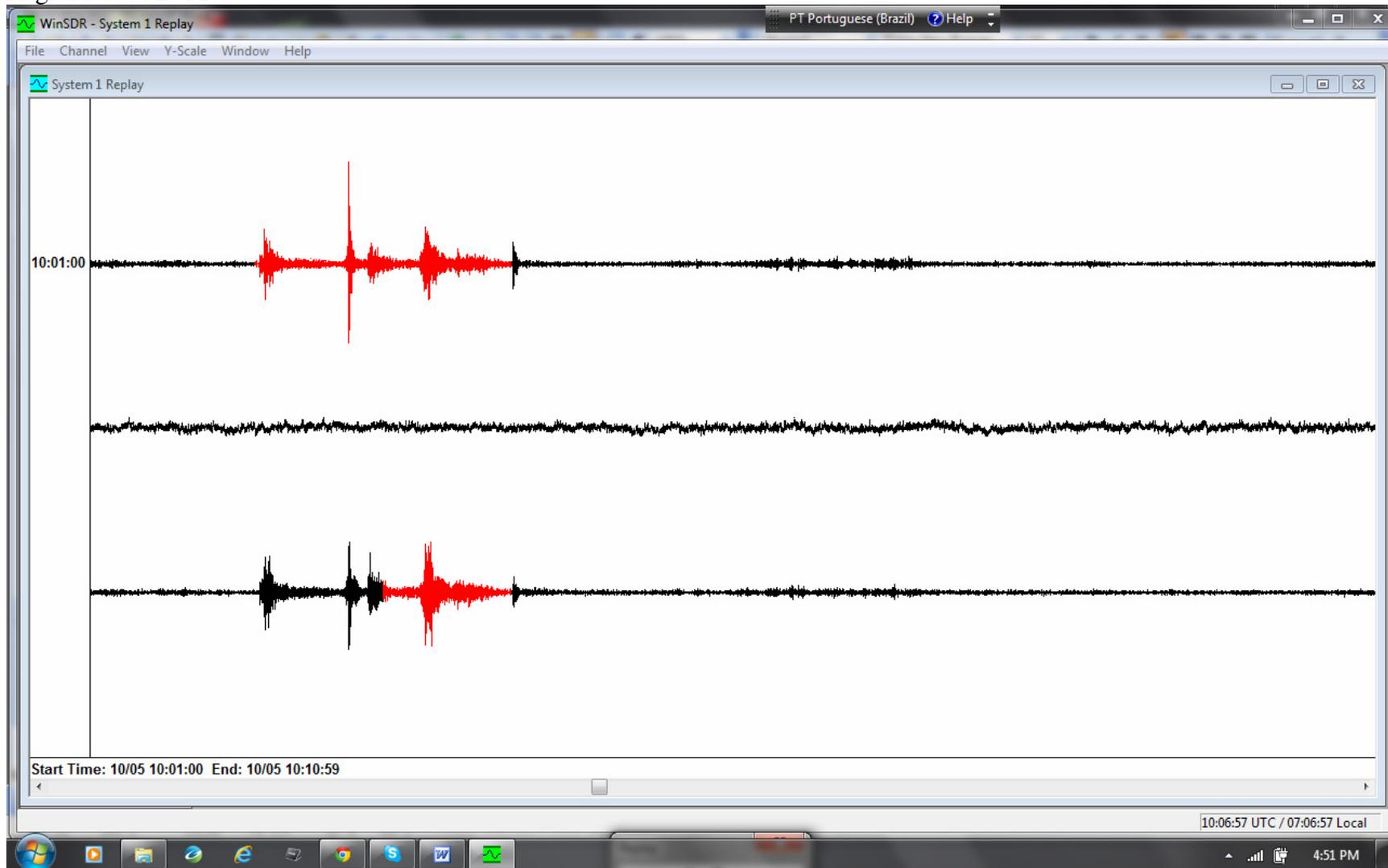


Evento 3 – eventos superpuestos.

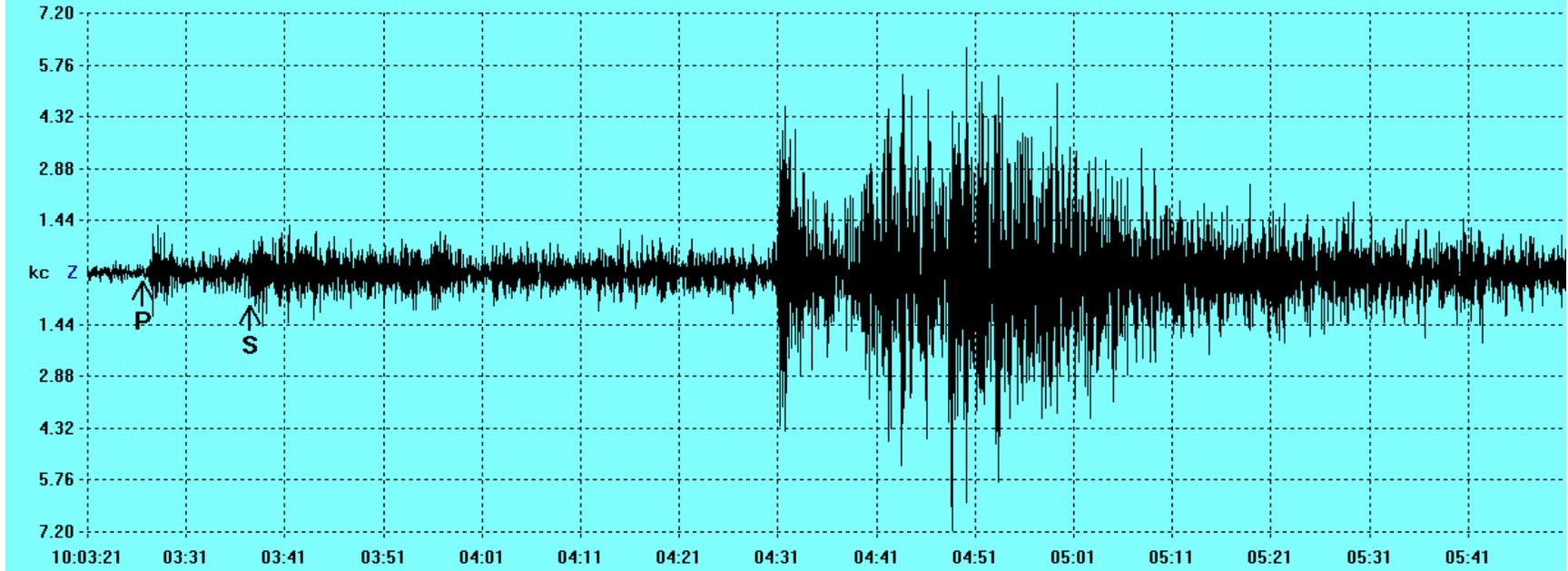
Registro de SANT1:



Registro de SANT2:

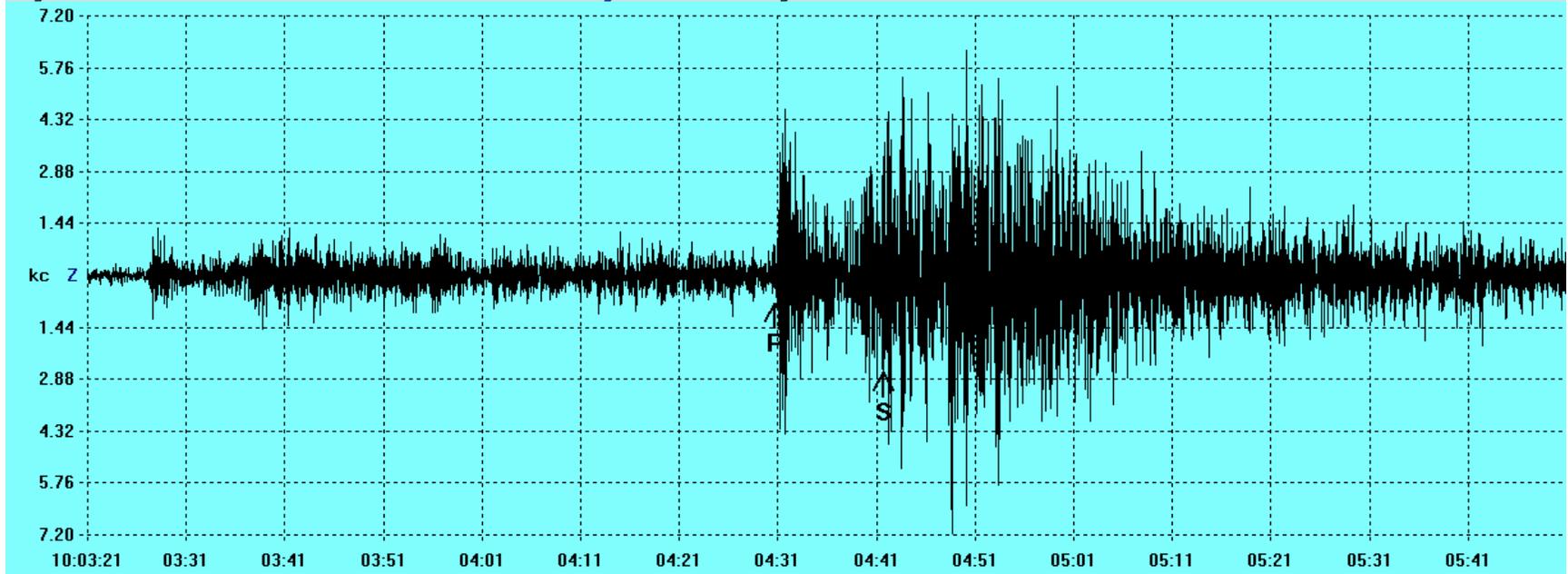


Start: 10/09/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6236/-7181 X: 2:30.0 Y: 7.2kc
Org: 10:03:11.9 P: 10:03:26.6 S: 10:03:37.5 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



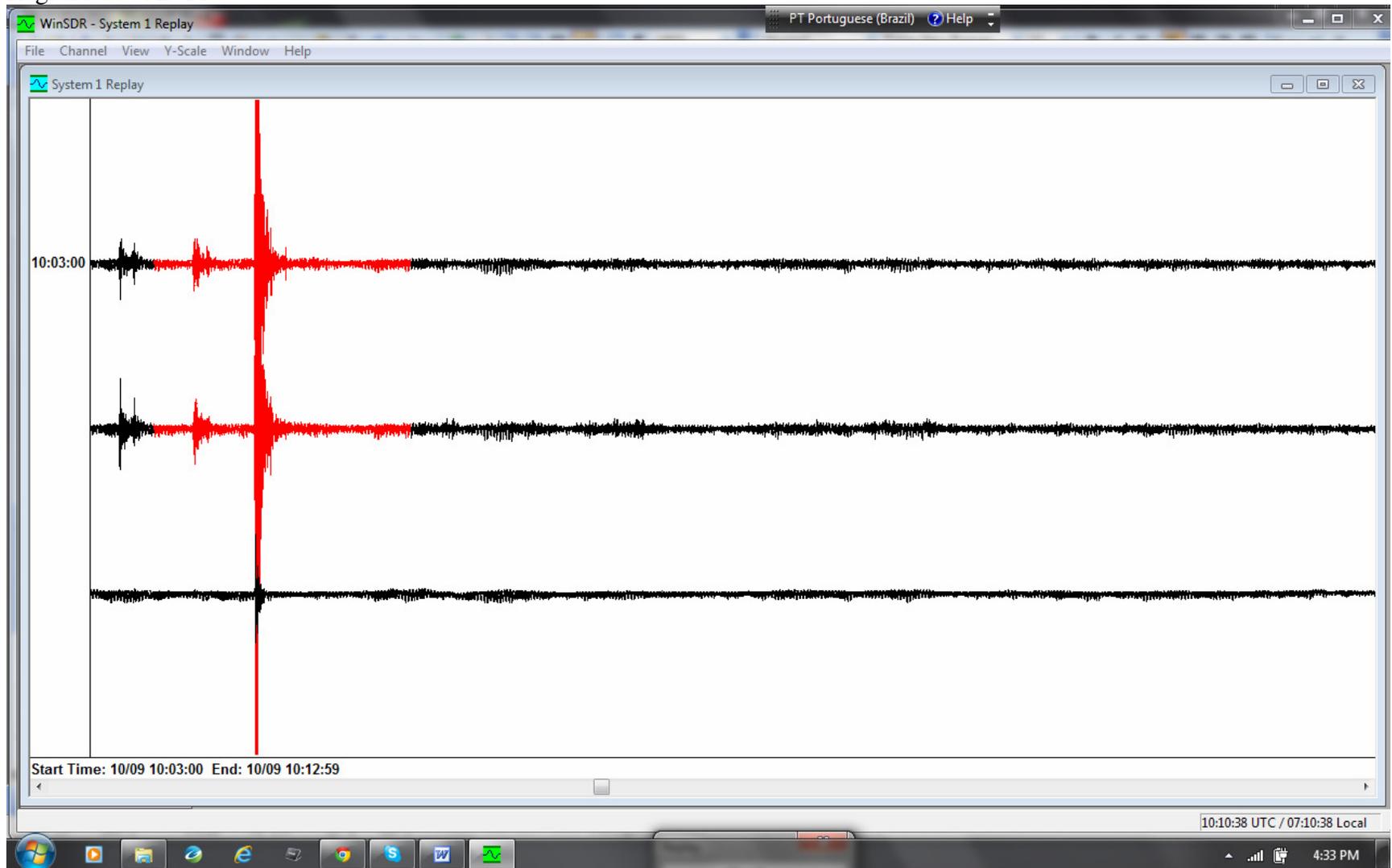
Evento 4

Start: 10/09/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6236/-7181 X: 2:30.0 Y: 7.2kc
Org: 10:04:15.8 P: 10:04:30.7 S: 10:04:41.7 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

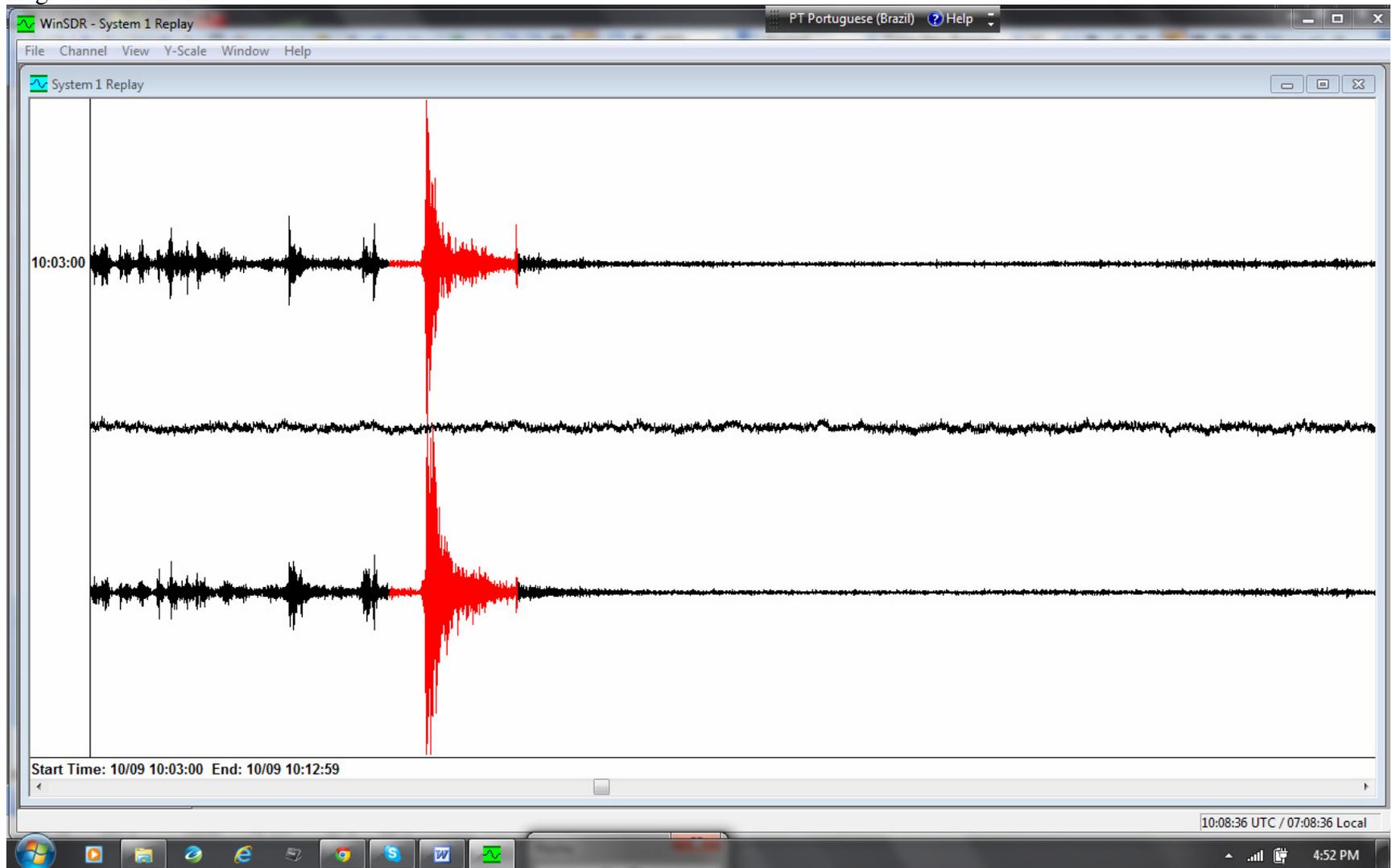


Evento 4

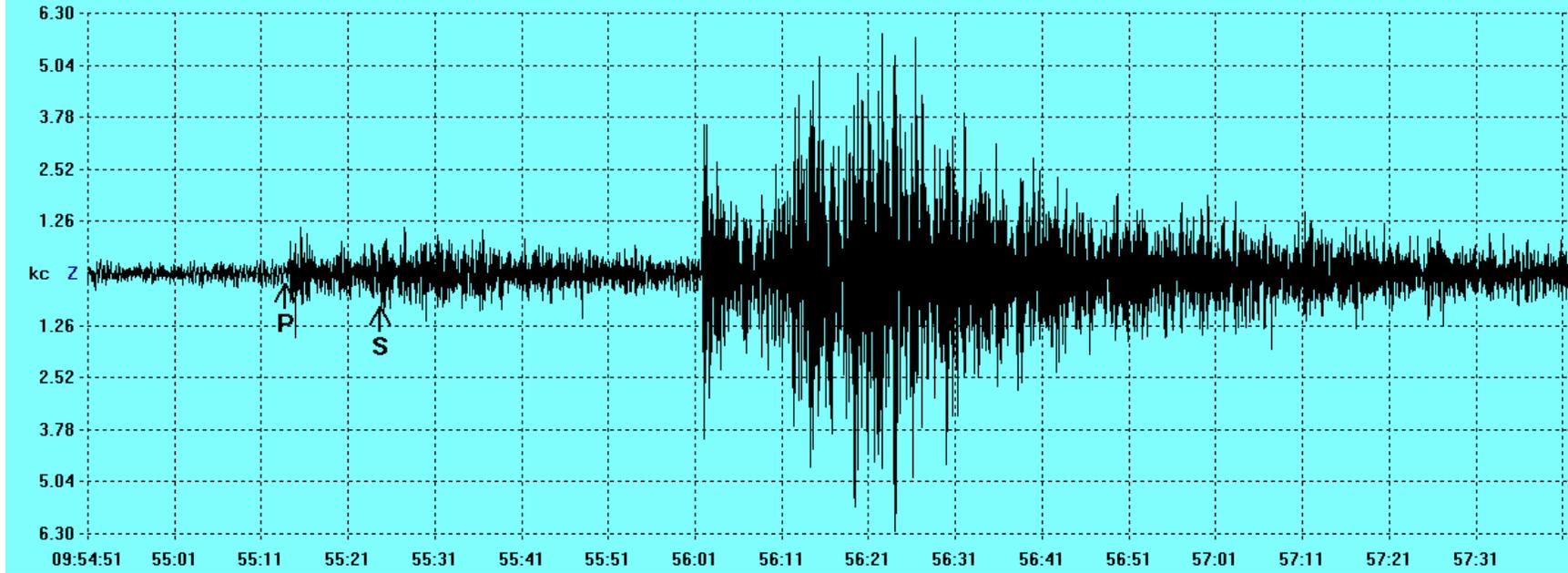
Registro de SANT1:



Registro de SANT2:

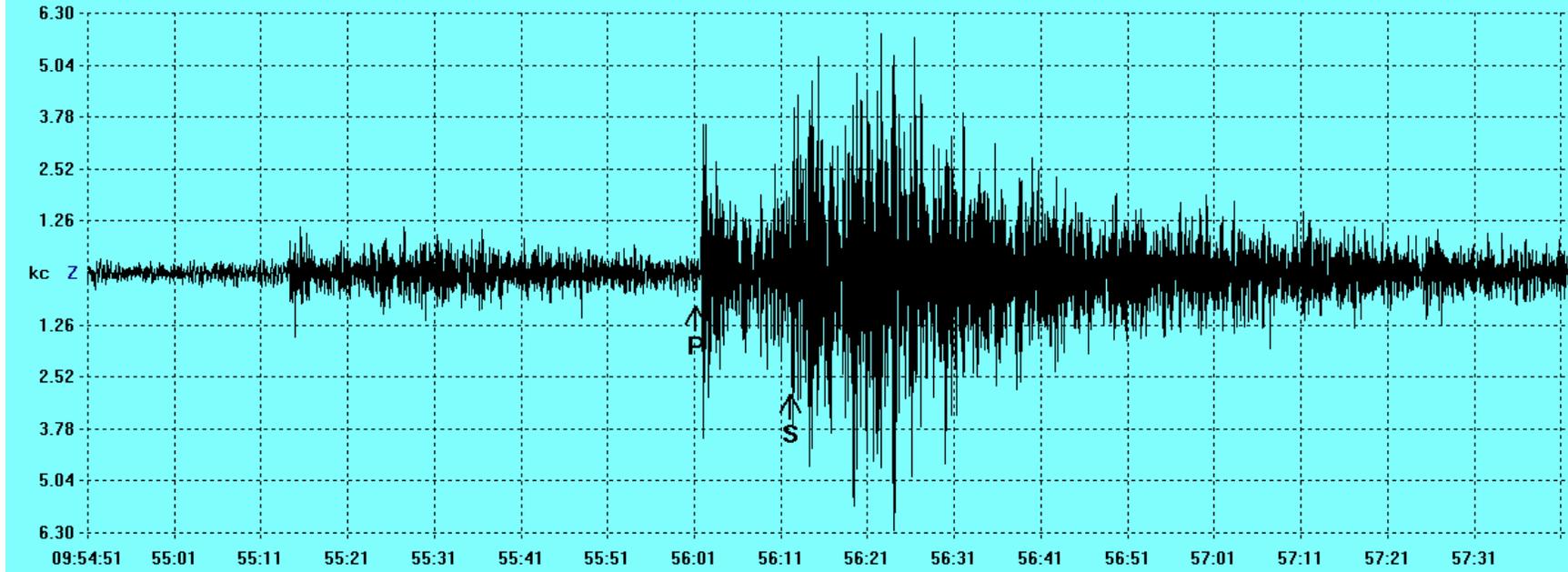


Start: 10/10/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 5788/-6241 X: 2:51.0 Y: 6.3kc
Org: 9:54:58.8 P: 9:55:13.7 S: 9:55:24.7 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



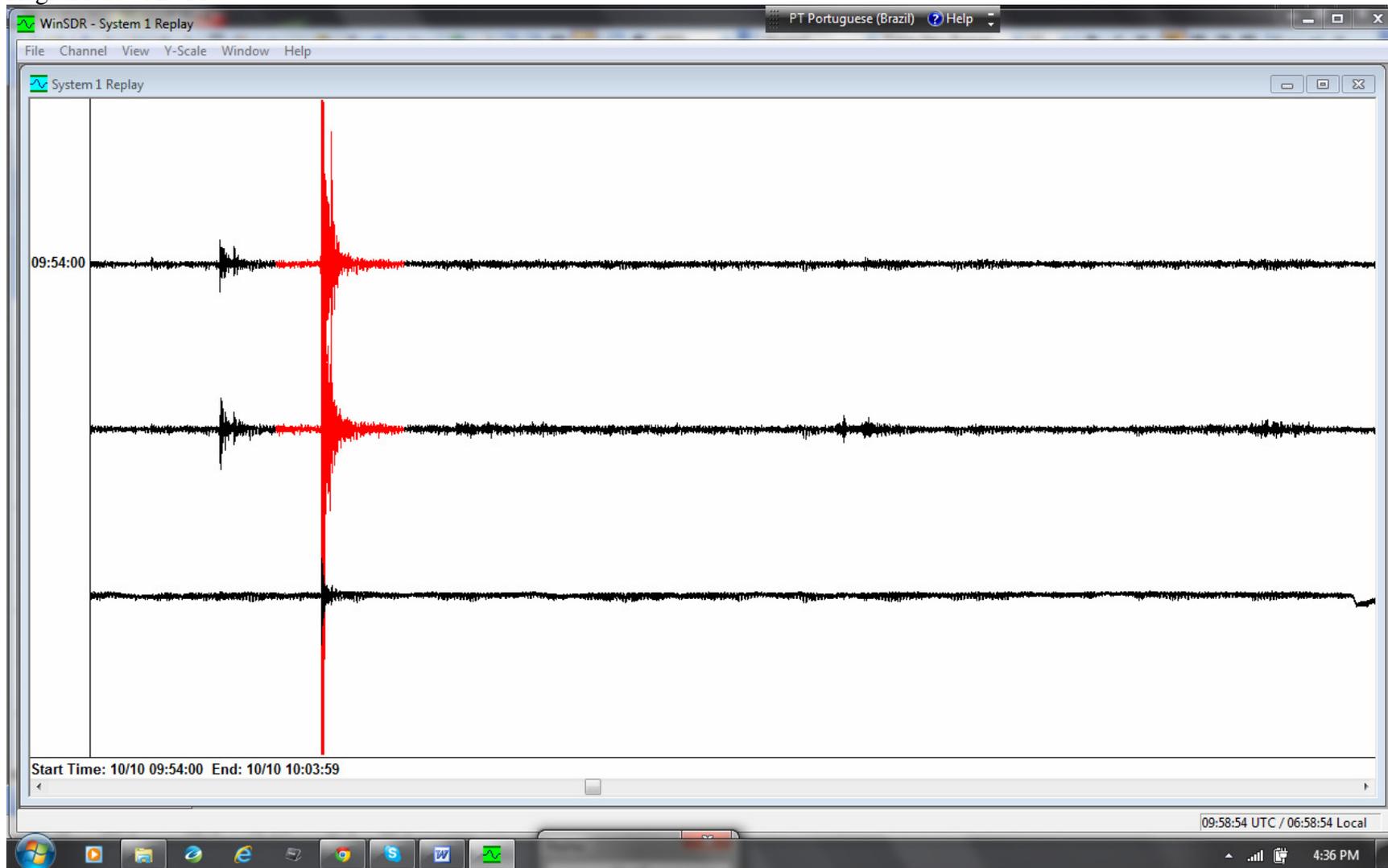
Evento 5

Start: 10/10/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 5788/-6241 X: 2:51.0 Y: 6.3kc
Org: 9:55:46.2 P: 9:56:01.1 S: 9:56:12.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

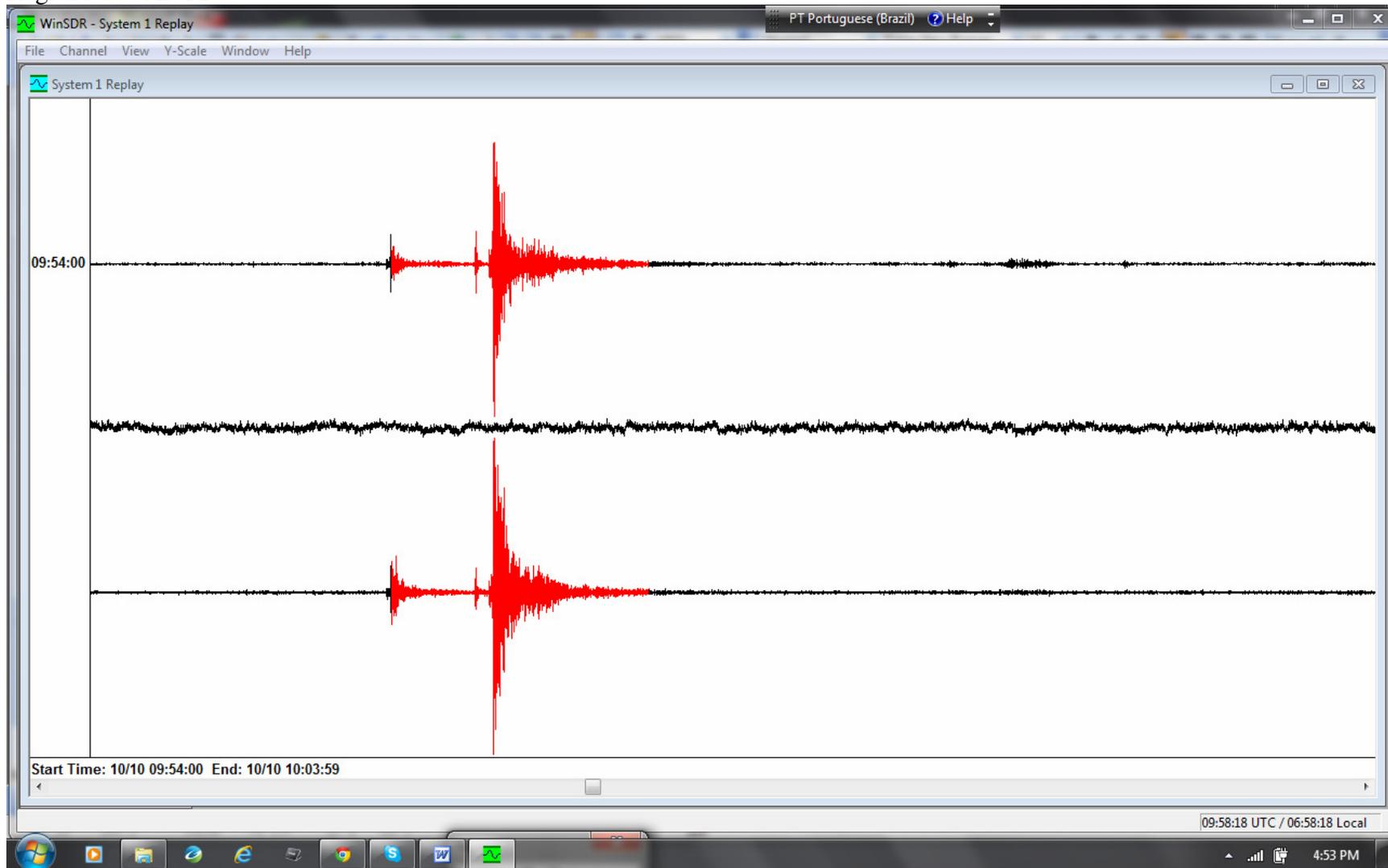


Evento 5

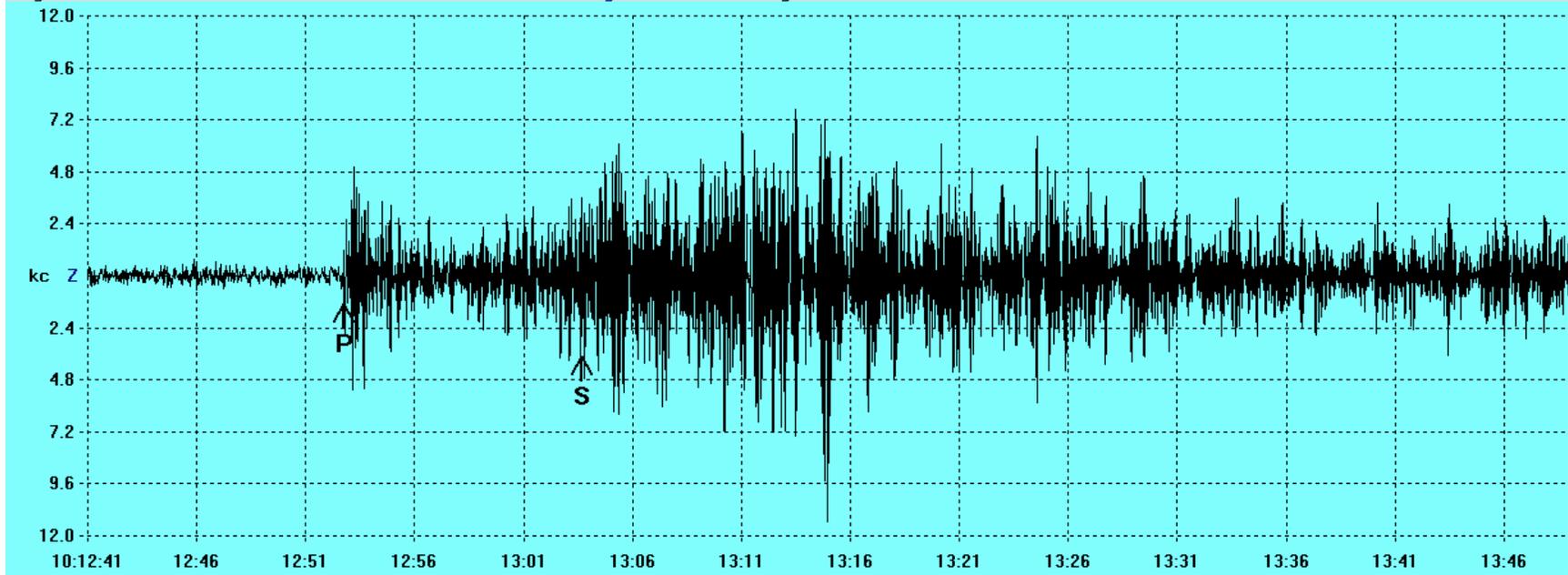
Registro de SANT1:



Registro de SANT2:

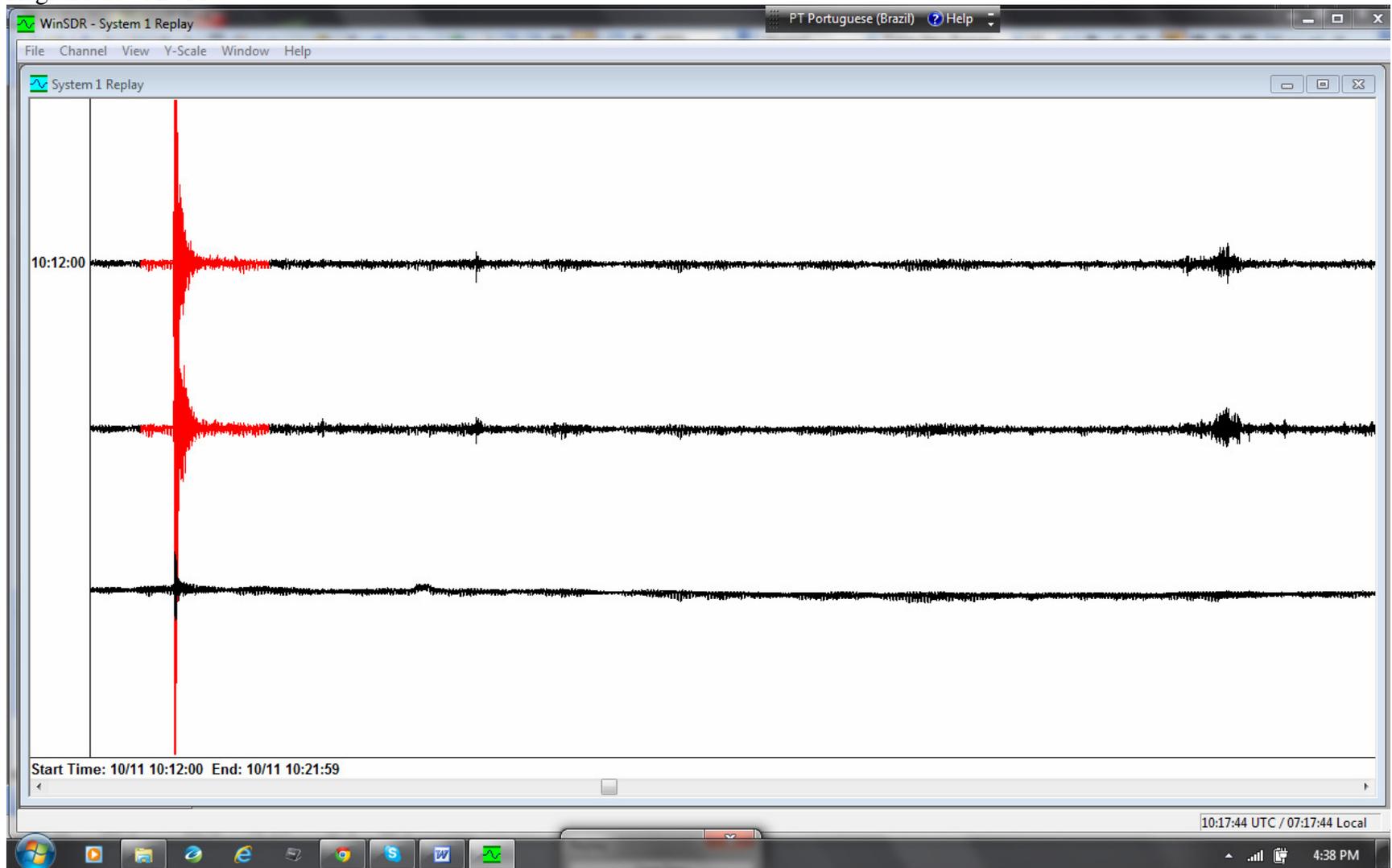


Start: 10/11/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 9608/-11328 X: 1:08.0 Y: 12kc
Org: 10:12:37.8 P: 10:12:52.7 S: 10:13:03.7 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

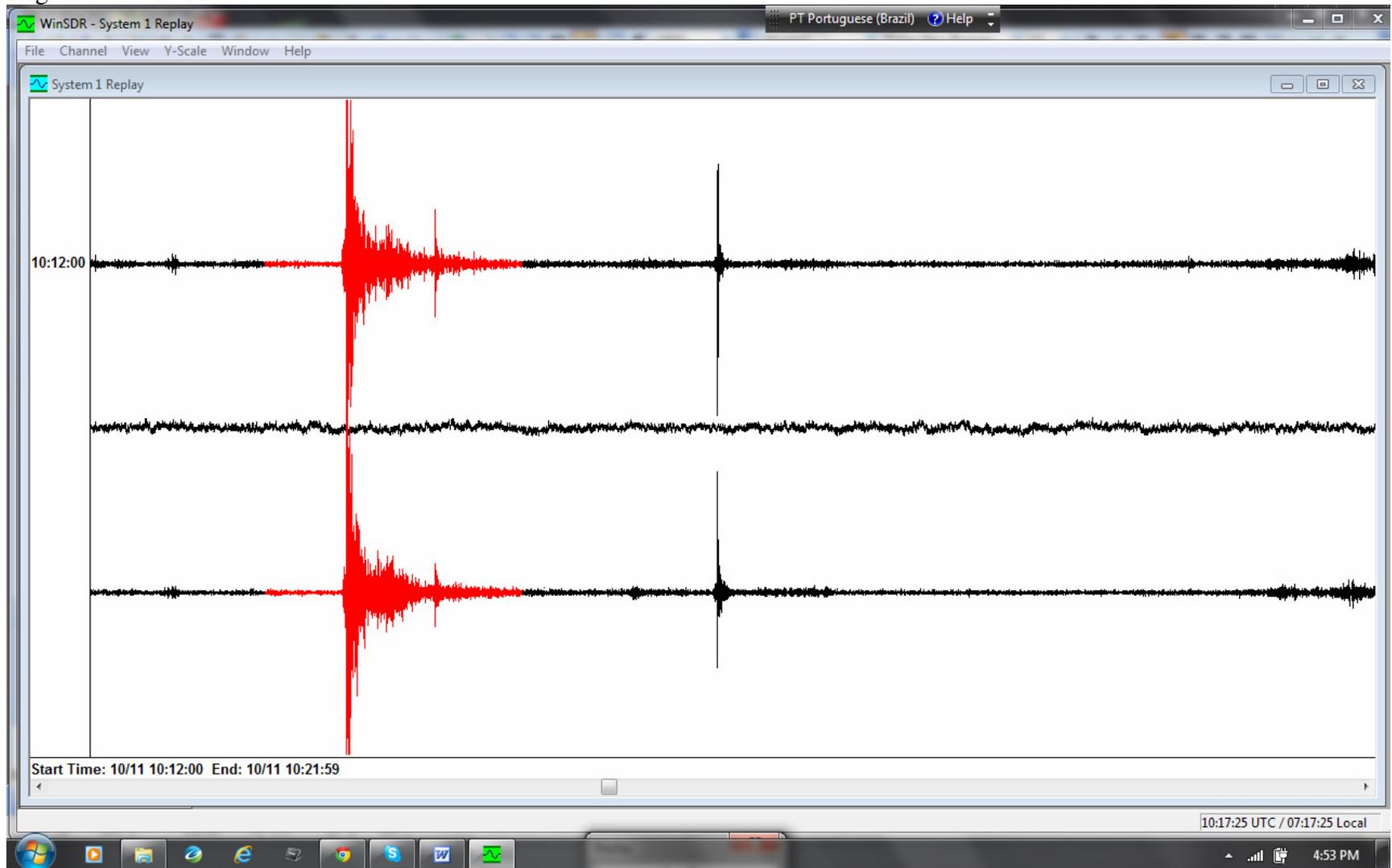


Evento 6

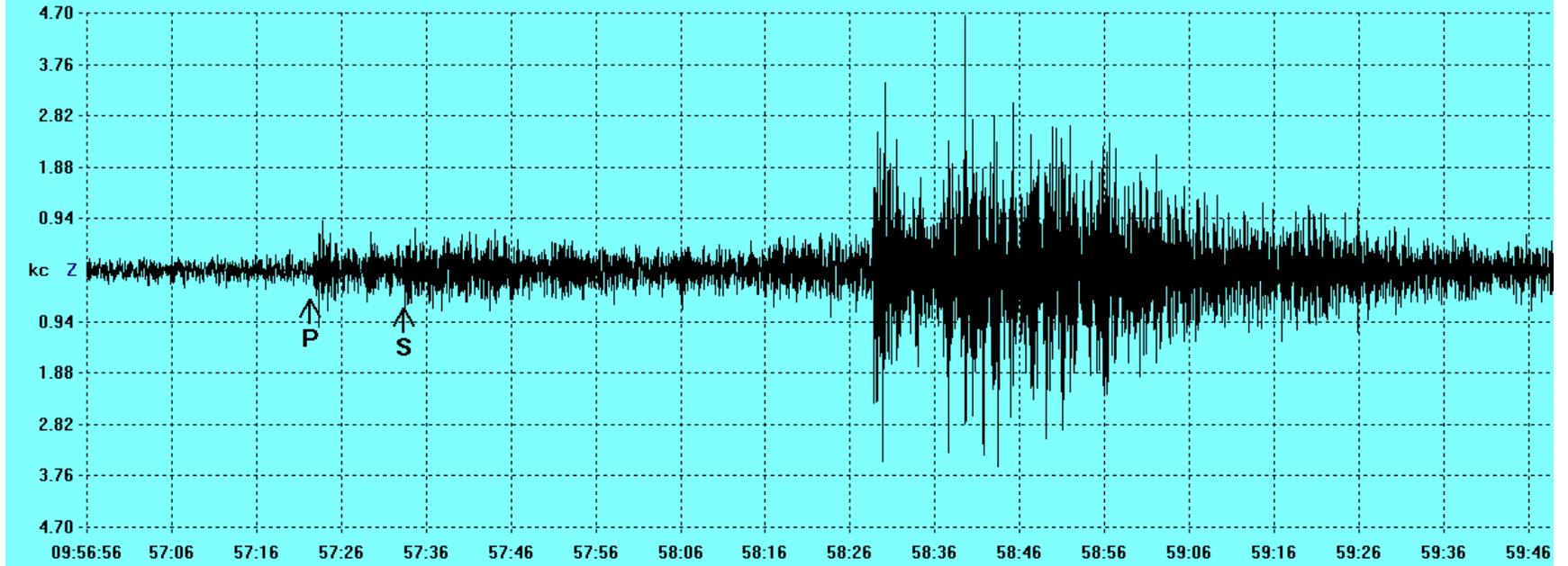
Registro de SANT1:



Registro de SANT2:

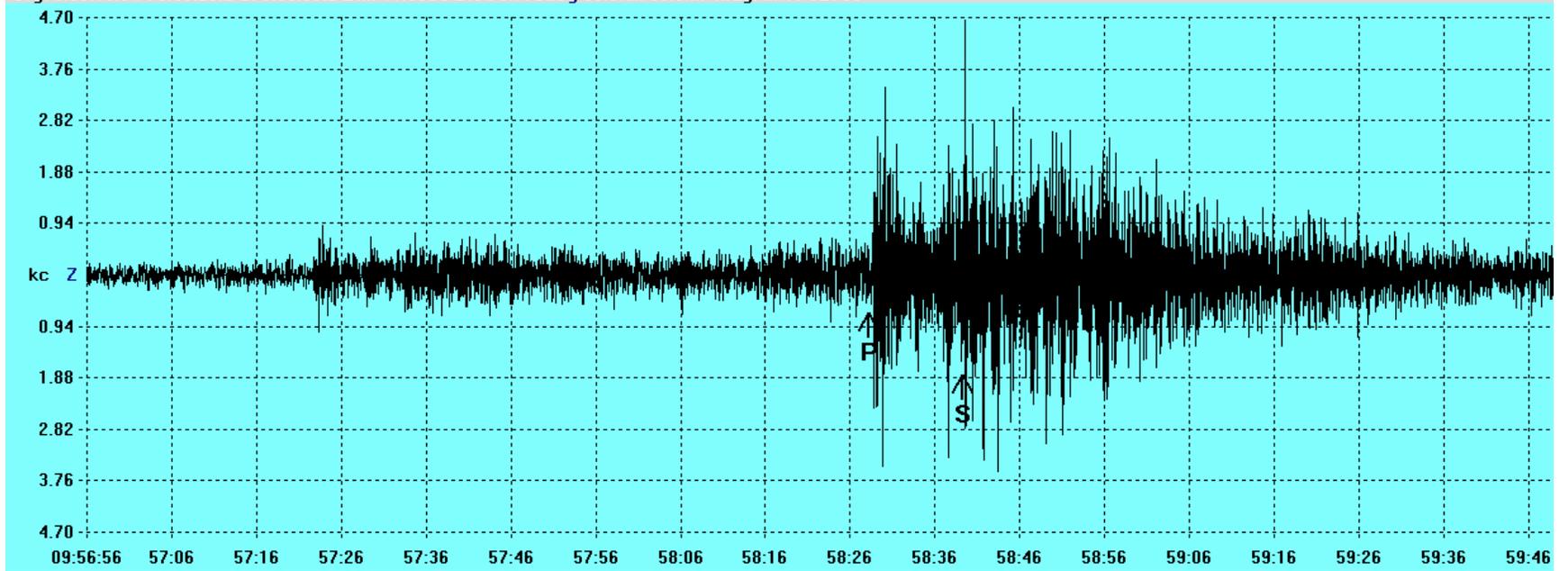


Start: 10/16/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4653/-3591 X: 2:53.0 Y: 4.7kc
Org: 9:57:07.4 P: 9:57:22.3 S: 9:57:33.3 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



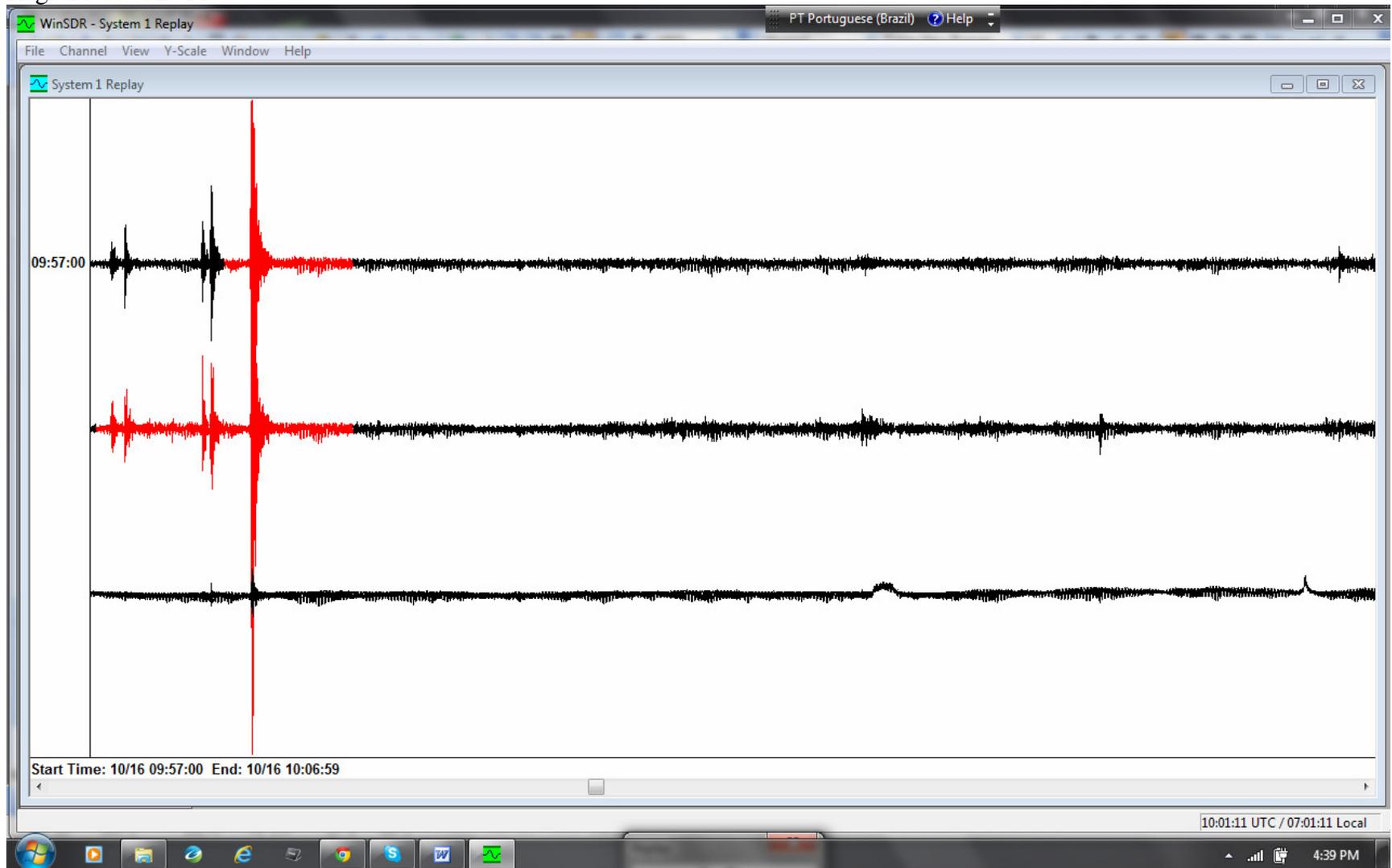
Evento 7 – eventos superpuestos.

Start: 10/16/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4653/-3591 X: 2:53.0 Y: 4.7kc
Org: 9:58:13.3 P: 9:58:28.2 S: 9:58:39.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

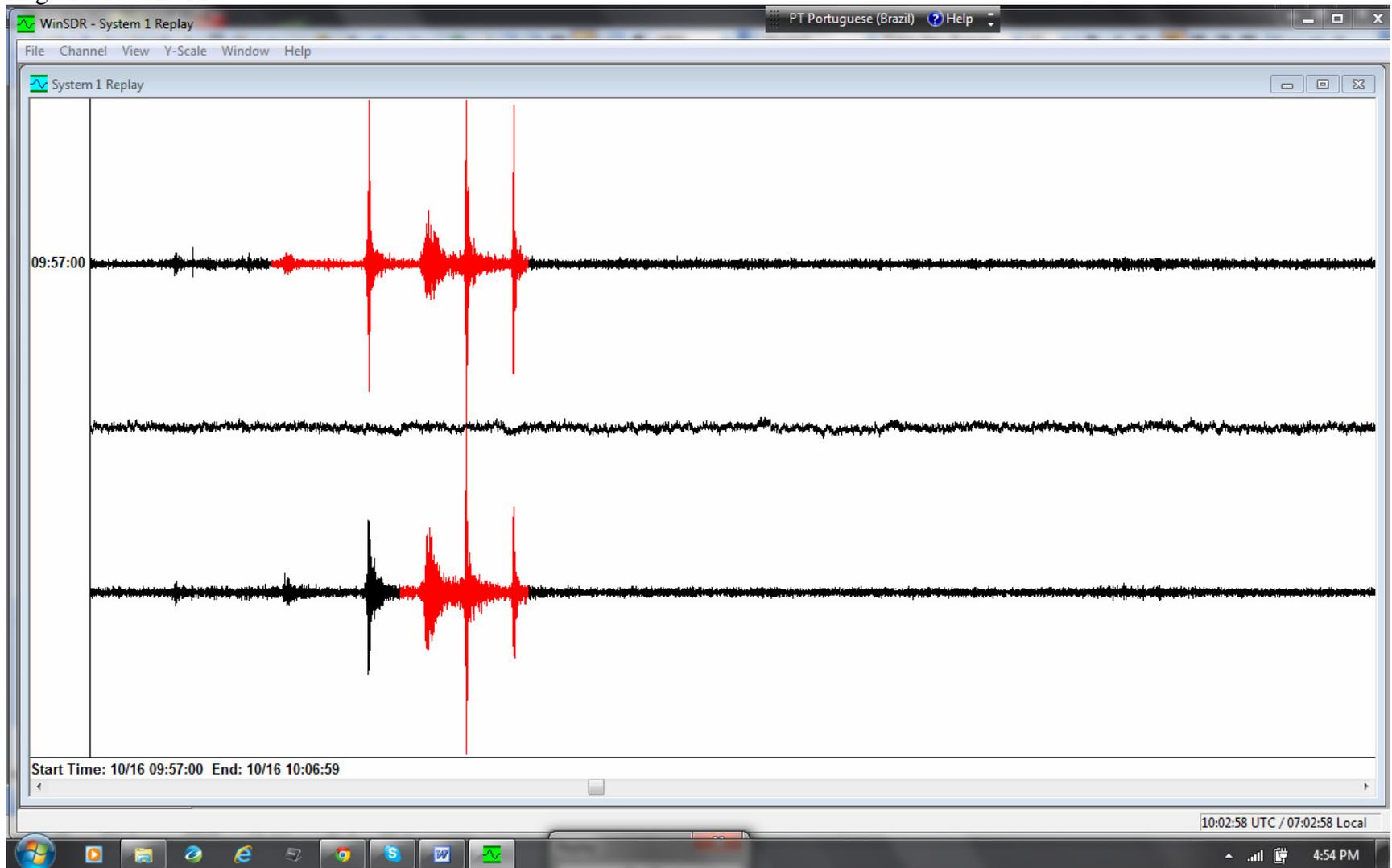


Evento 7 – eventos superpuestos.

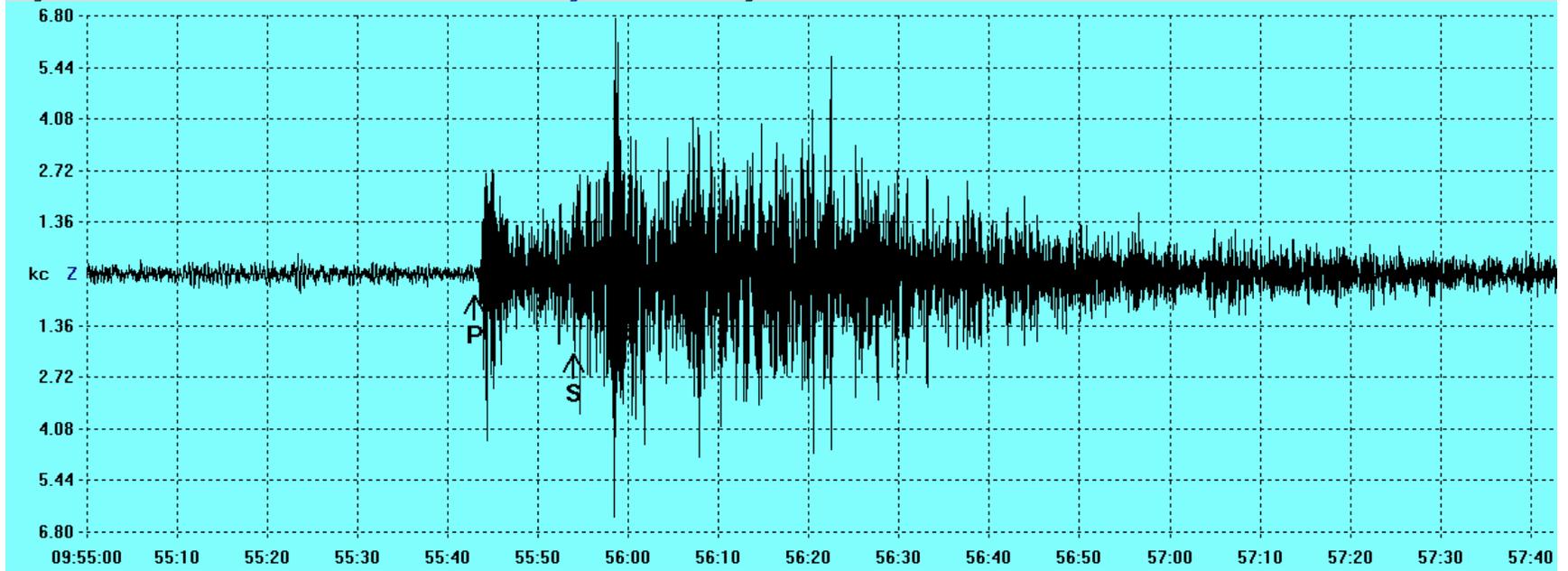
Registro de SANT1:



Registro de SANT2:

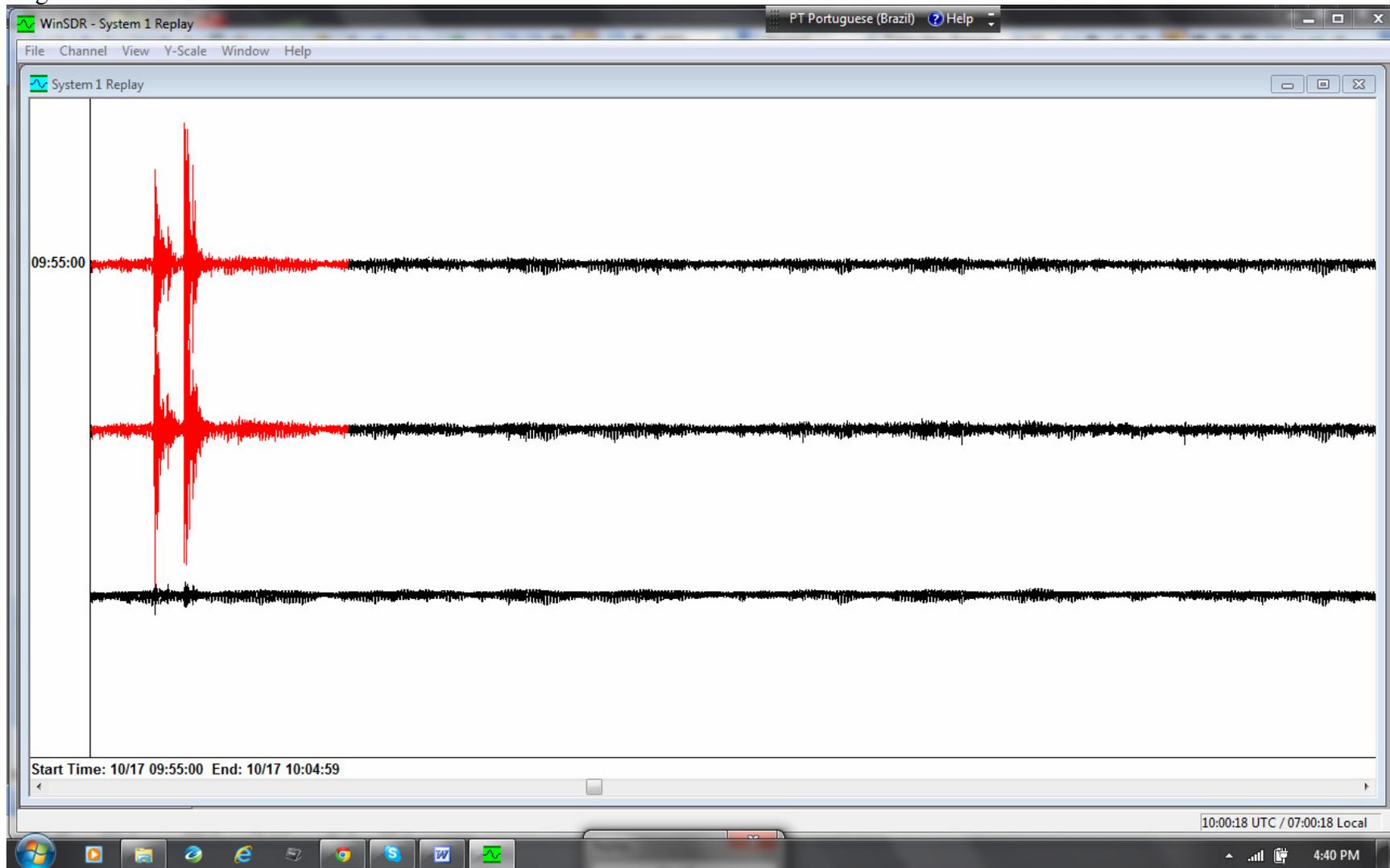


Start: 10/17/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6718/-6410 X: 2.43.0 Y: 6.8kc
Org: 9:55:28.0 P: 9:55:42.9 S: 9:55:53.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

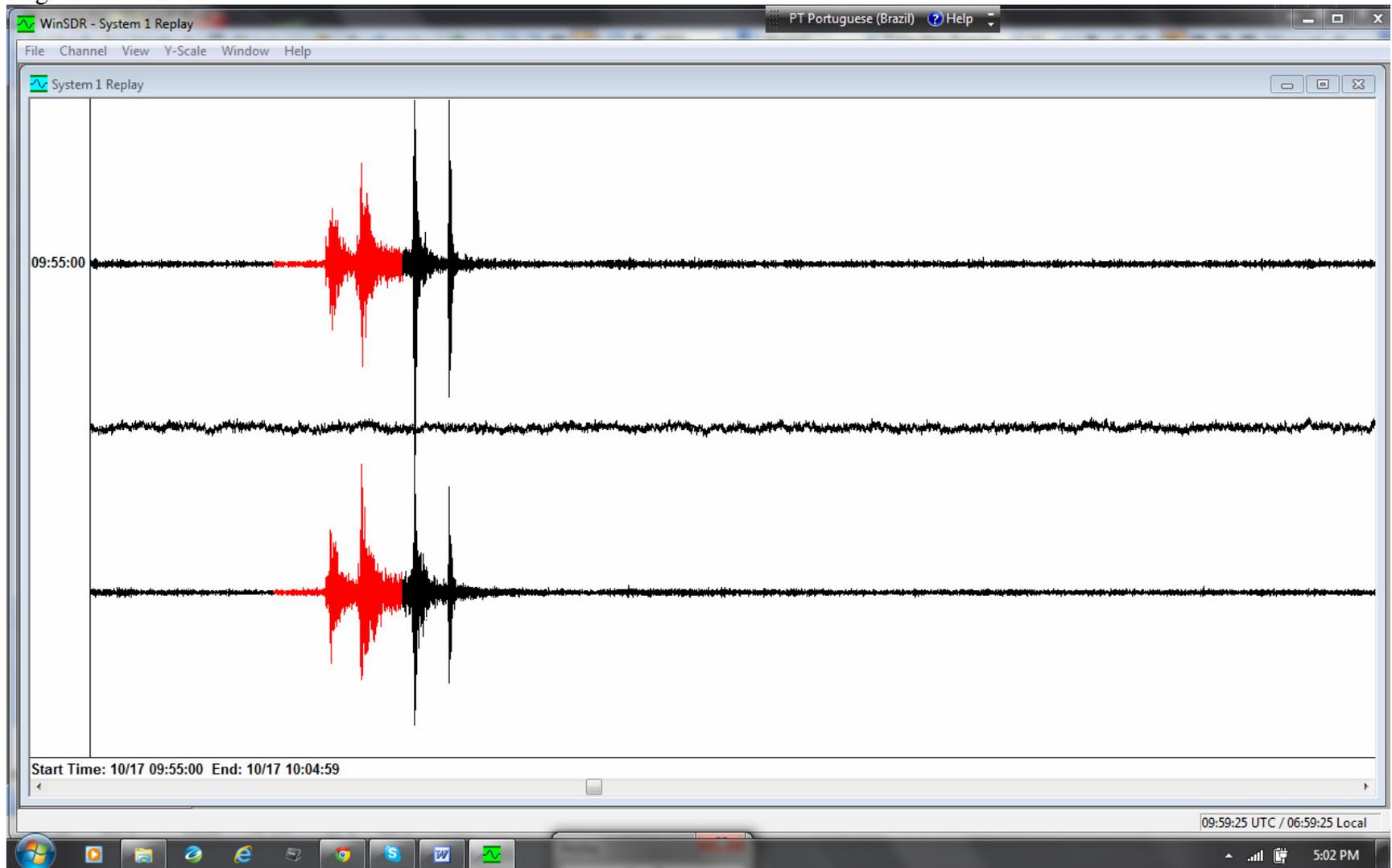


Evento 8

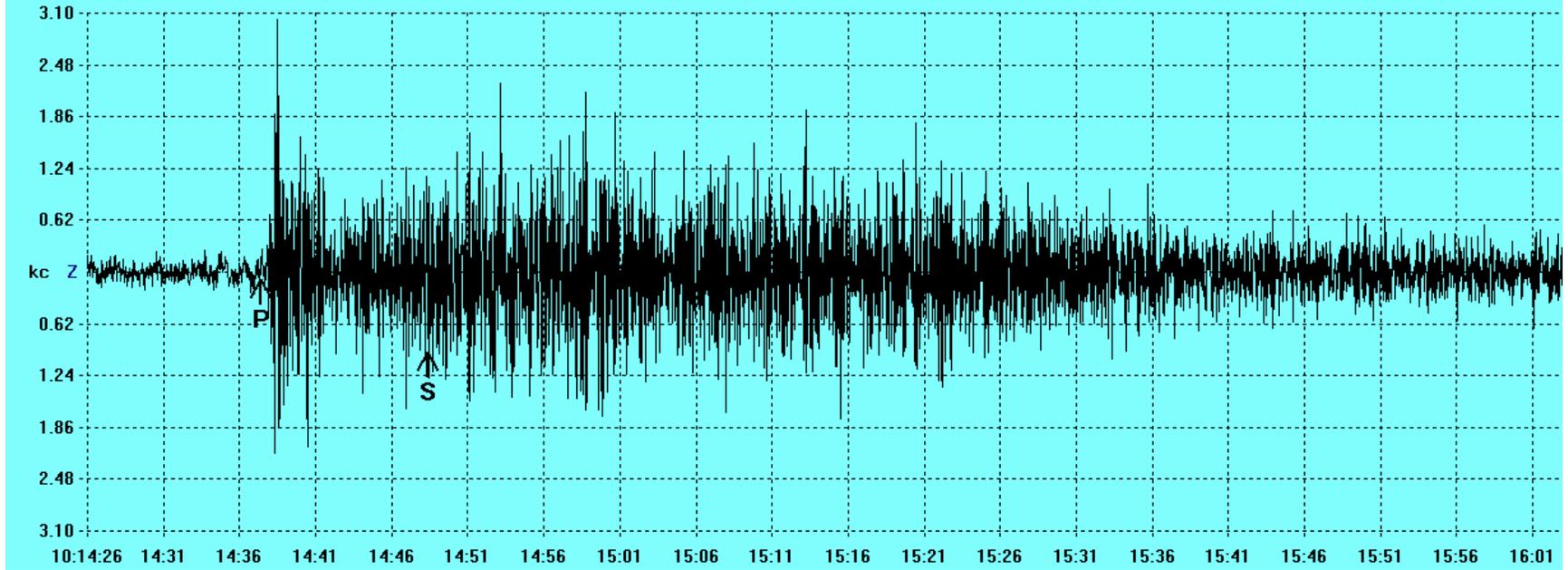
Registro de SANT1:



Registro de SANT2:

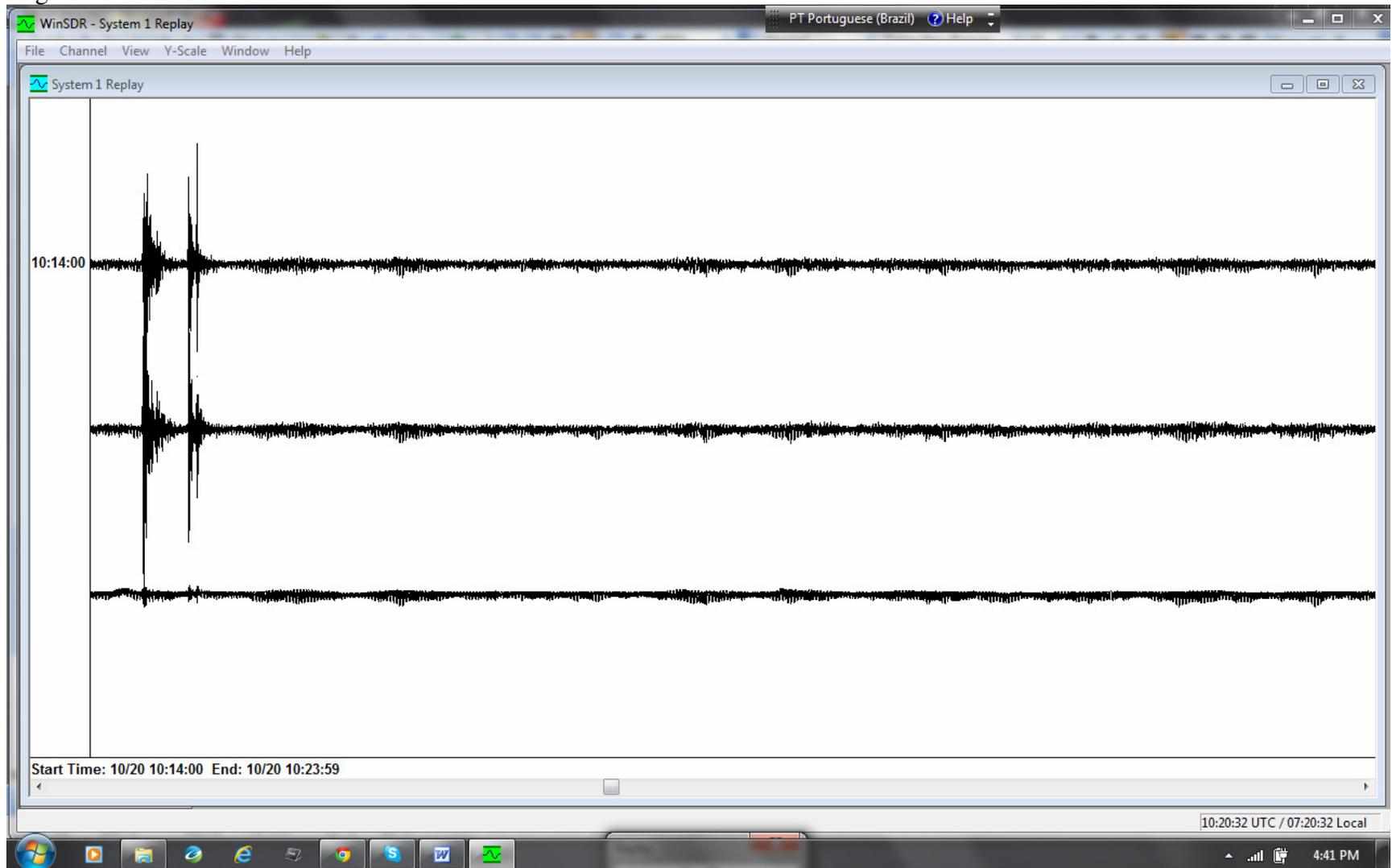


Start: 10/20/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3025/-2171 X: 1:37.0 Y: 3.1kc
Org: 10:14:22.5 P: 10:14:37.4 S: 10:14:48.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

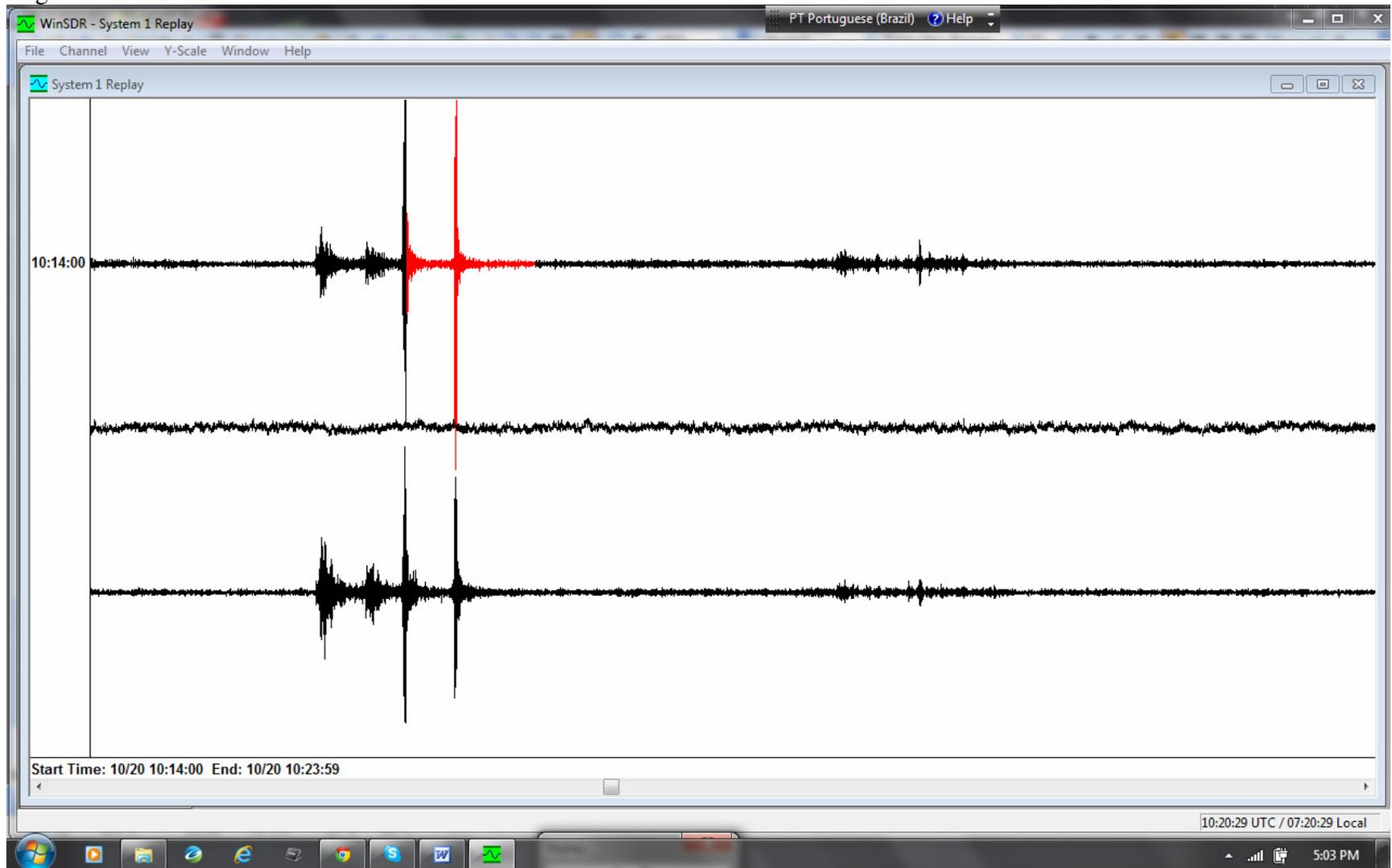


Evento 9

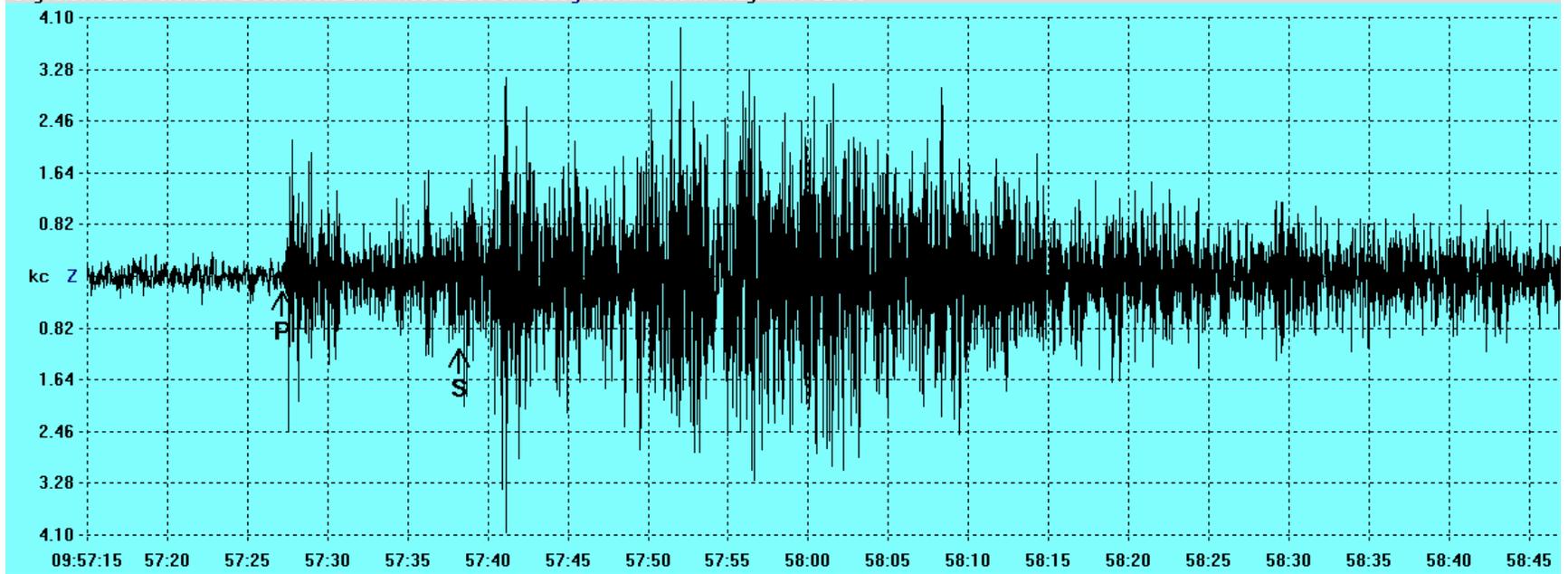
Registro de SANT1:



Registro de SANT2:

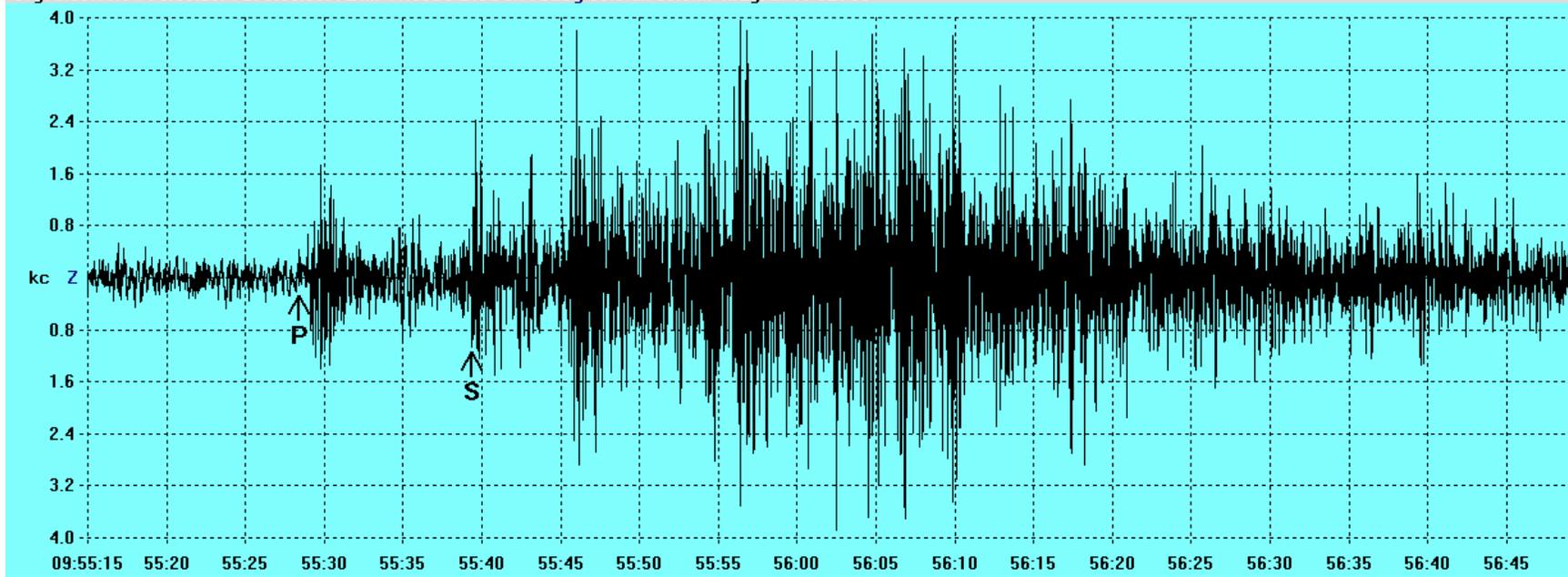


Start: 10/24/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3935/-4055 X: 1:32.0 Y: 4.1kc
Org: 9:57:12.3 P: 9:57:27.2 S: 9:57:38.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



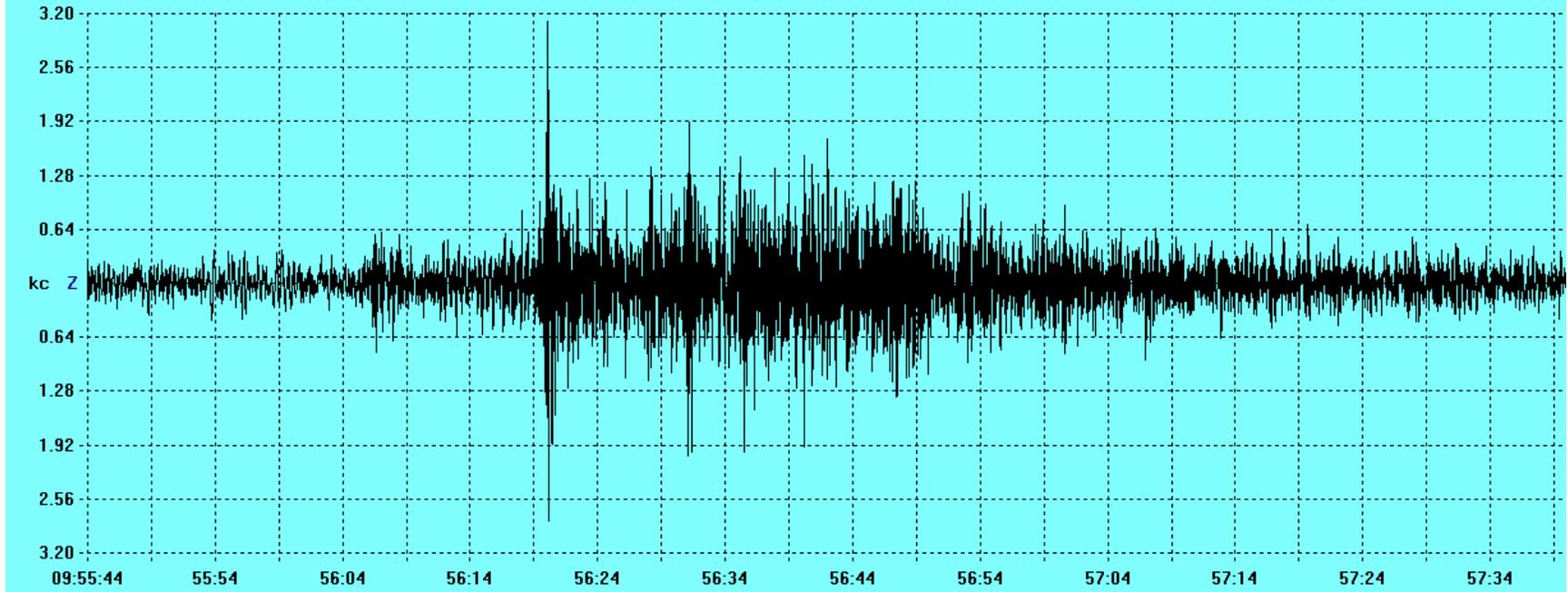
Evento 10

Start: 10/27/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3950/-3873 X: 1:34.0 Y: 4kc
Org: 9:55:13.5 P: 9:55:28.4 S: 9:55:39.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



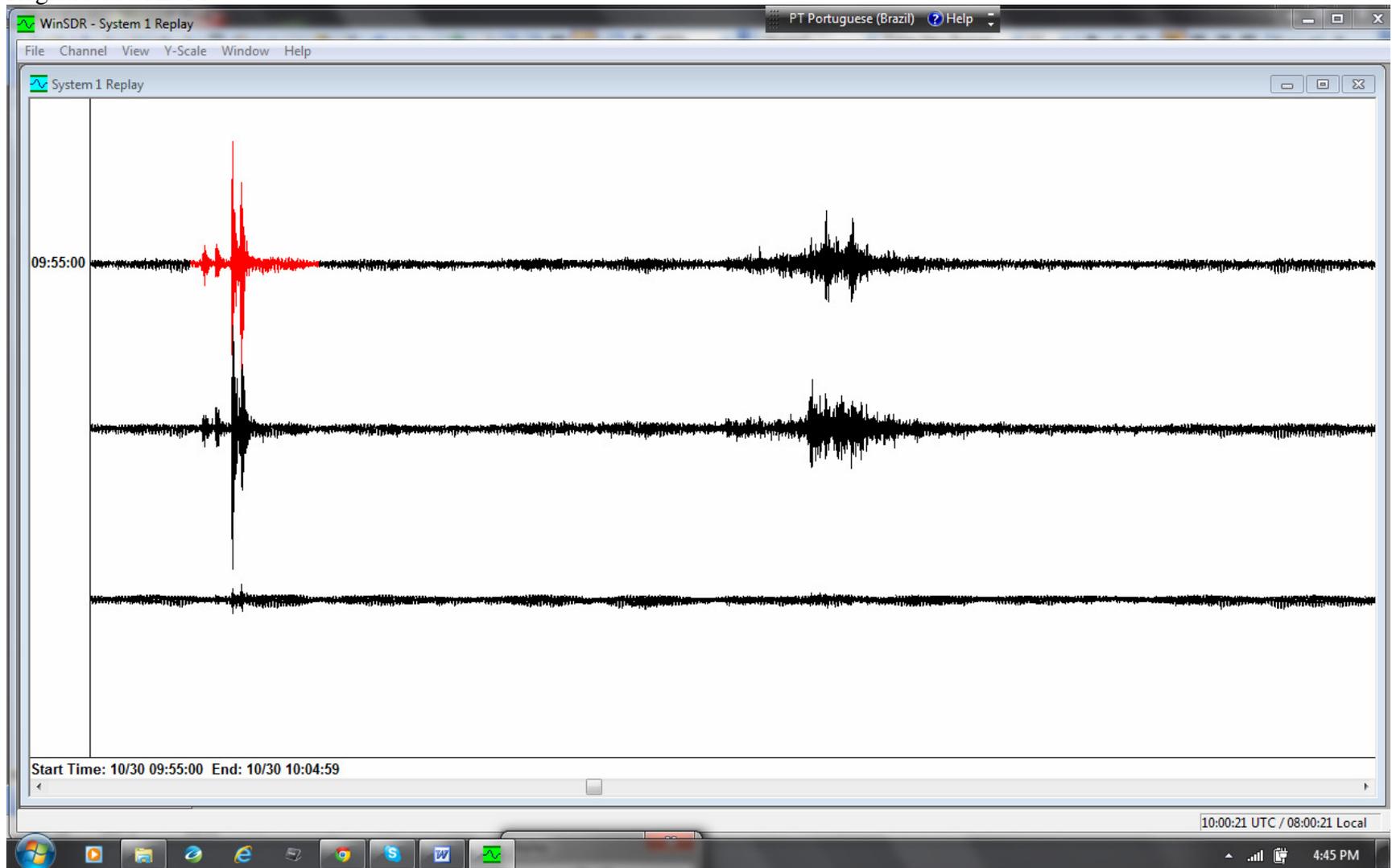
Evento 11 – eventos superpuestos.

Start: 10/30/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3111/-2813 X: 1:56.0 Y: 3.2kc

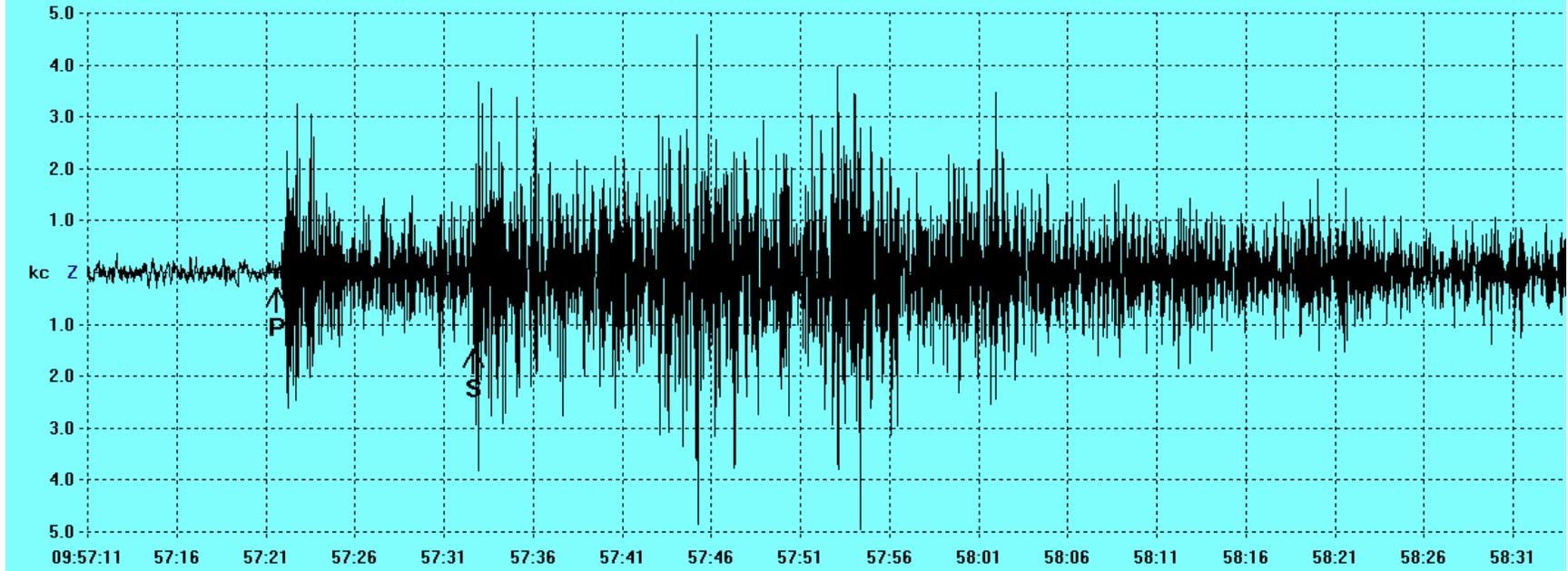


Evento 12

Registro de SANT1:

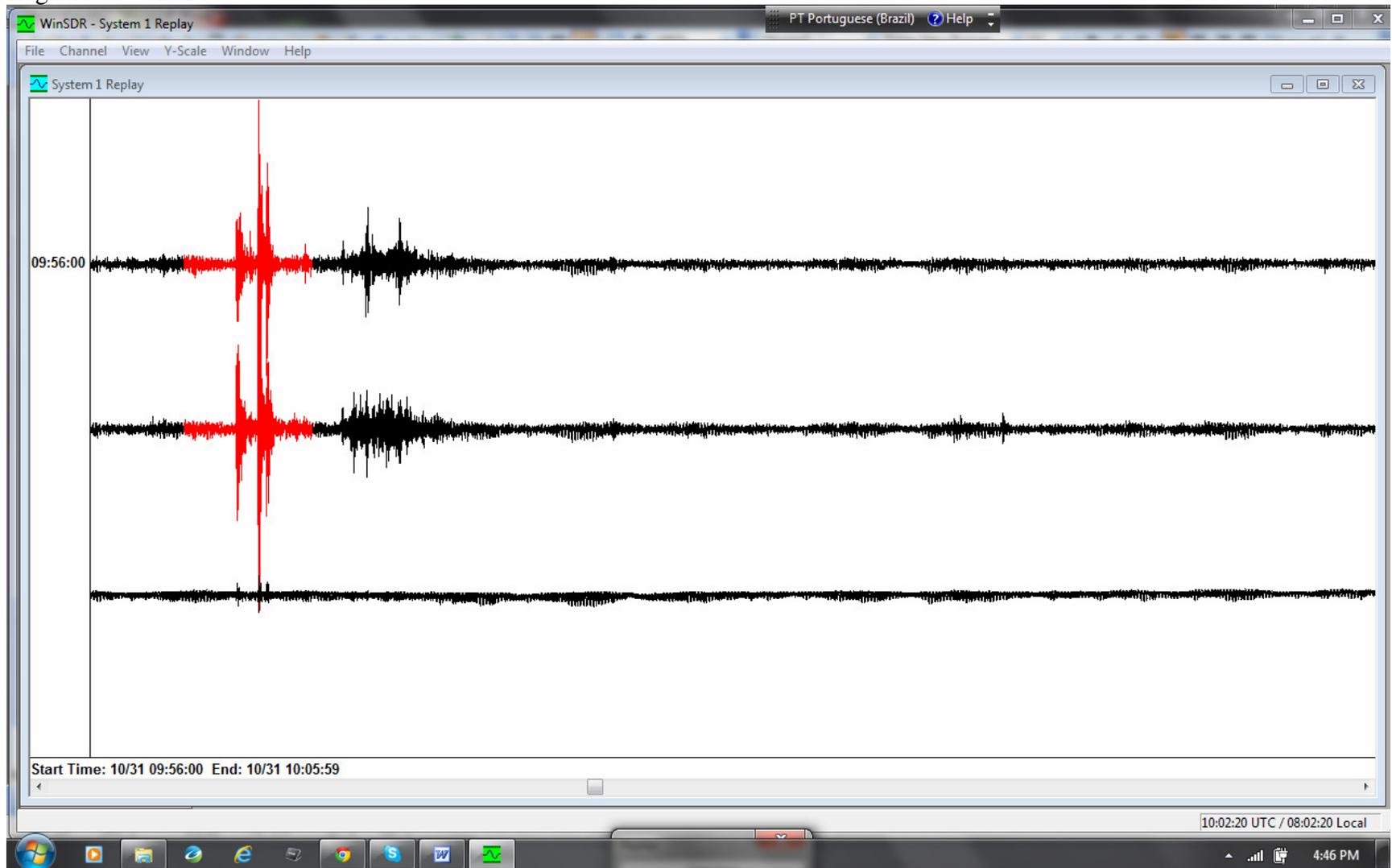


Start: 10/31/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4591/-4939 X: 1:23.0 Y: 5kc
Org: 9:57:06.7 P: 9:57:21.6 S: 9:57:32.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 13

Registro de SANT1:



**Principais Telessismos Registrados no
Canteiro de Obras da UHE Santo
Antônio**

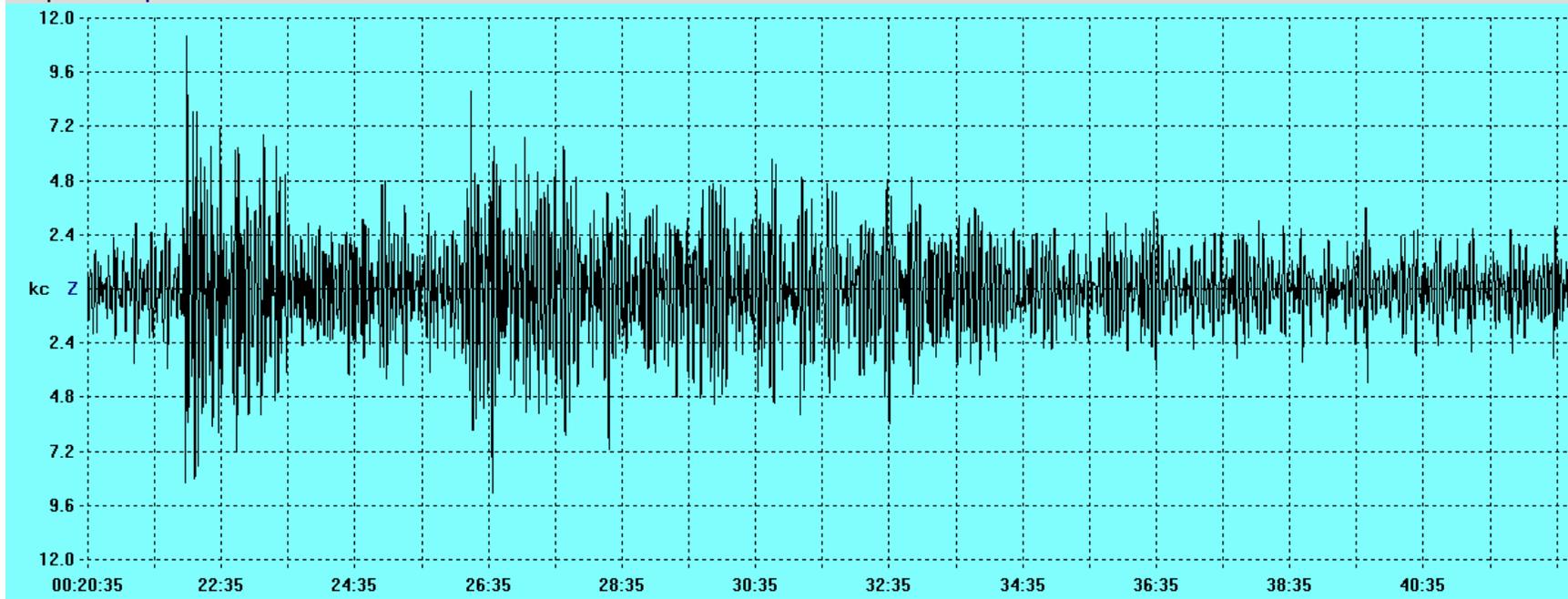
**Outubro
2012**

Registros da Estação SAML

O sismograma a seguir foi filtrado usando-se o filtro band-pass:

Start: 10/05/12 0:00:00 UTC Station: SAML 8.9489S 63.1831W Samples: 144000 SPS: 39.999999

Max/Min: 11216/-9051 X: 22:13.0 Y: 12kc

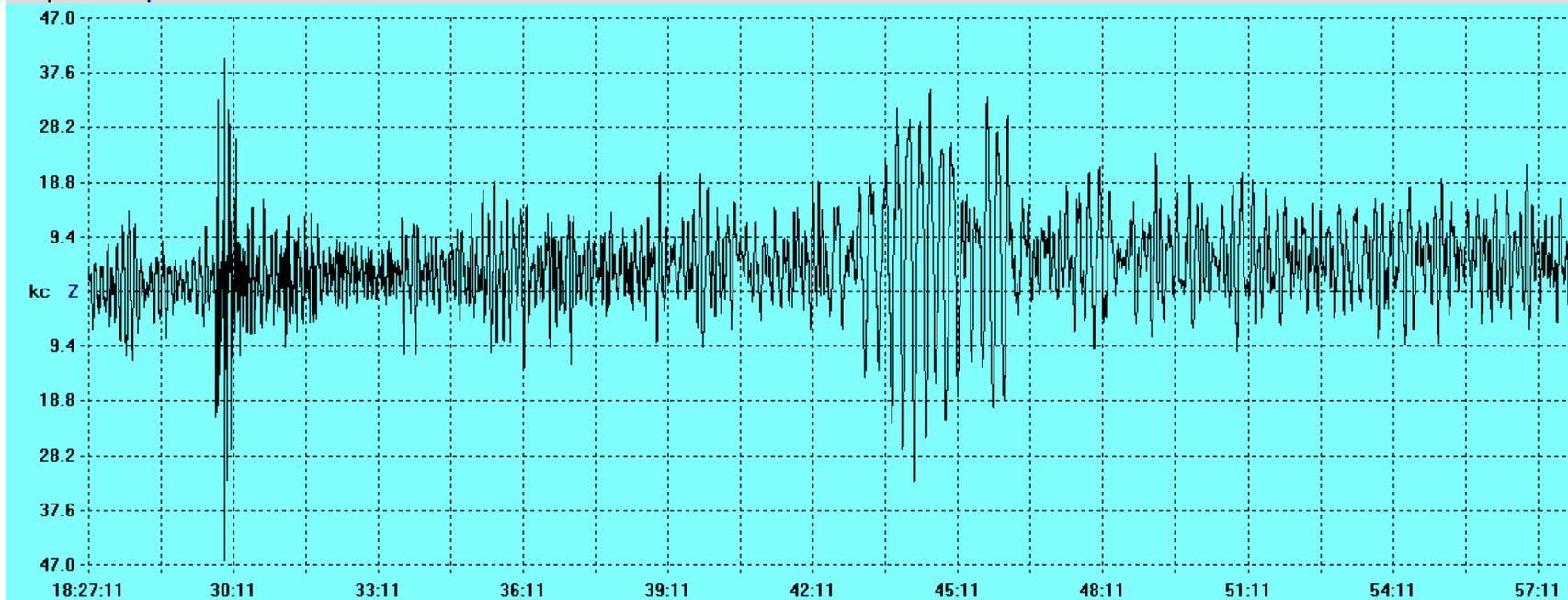


Telessismo: PDE-Q 2012 10 05 001956.97 17.48 -46.46 10 5.7 MwGS

O sismograma a seguir não foi filtrado:

Start: 10/05/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 39993/-46370 X: 31:00.0 Y: 47kc

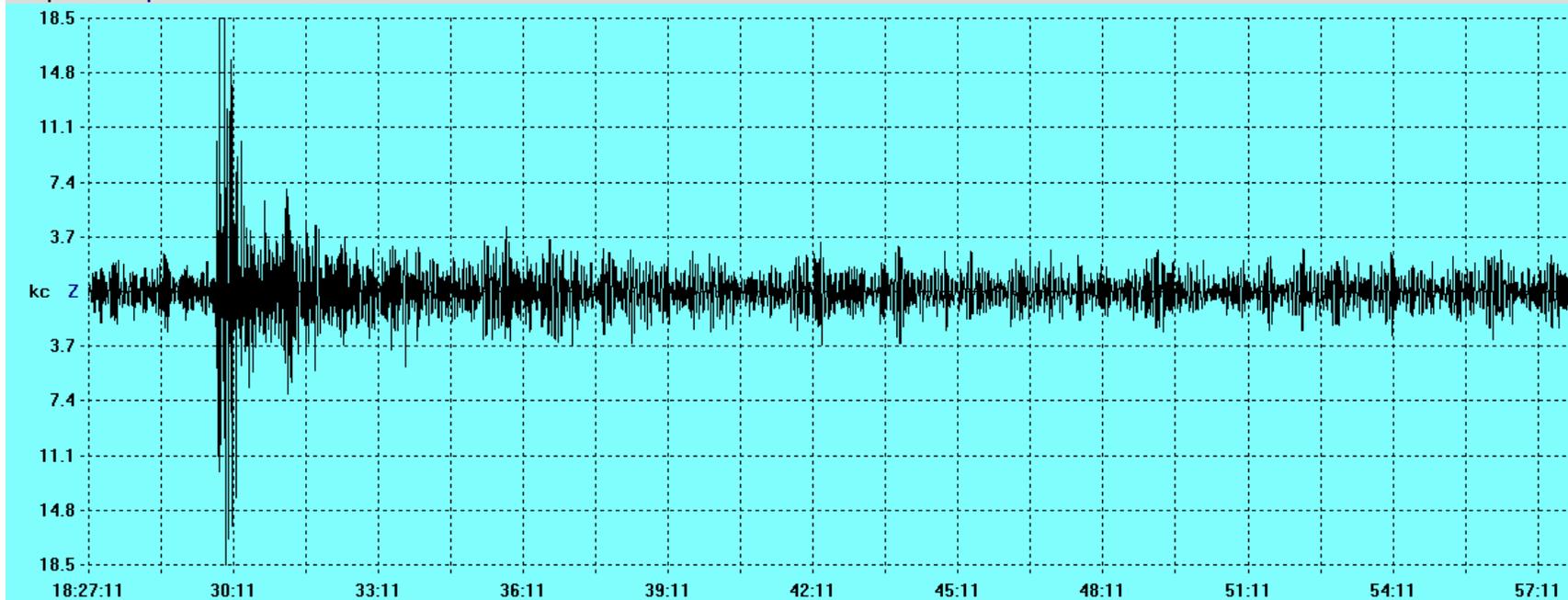


Telessismo: PDE-Q 2012 10 05 182257.78 13.03 -91.56 50 5.5 MwGS

Versão filtrada (band-pass) do sismograma acima:

Start: 10/05/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 35133/-36474 X: 31:00.0 Y: 18.5kc

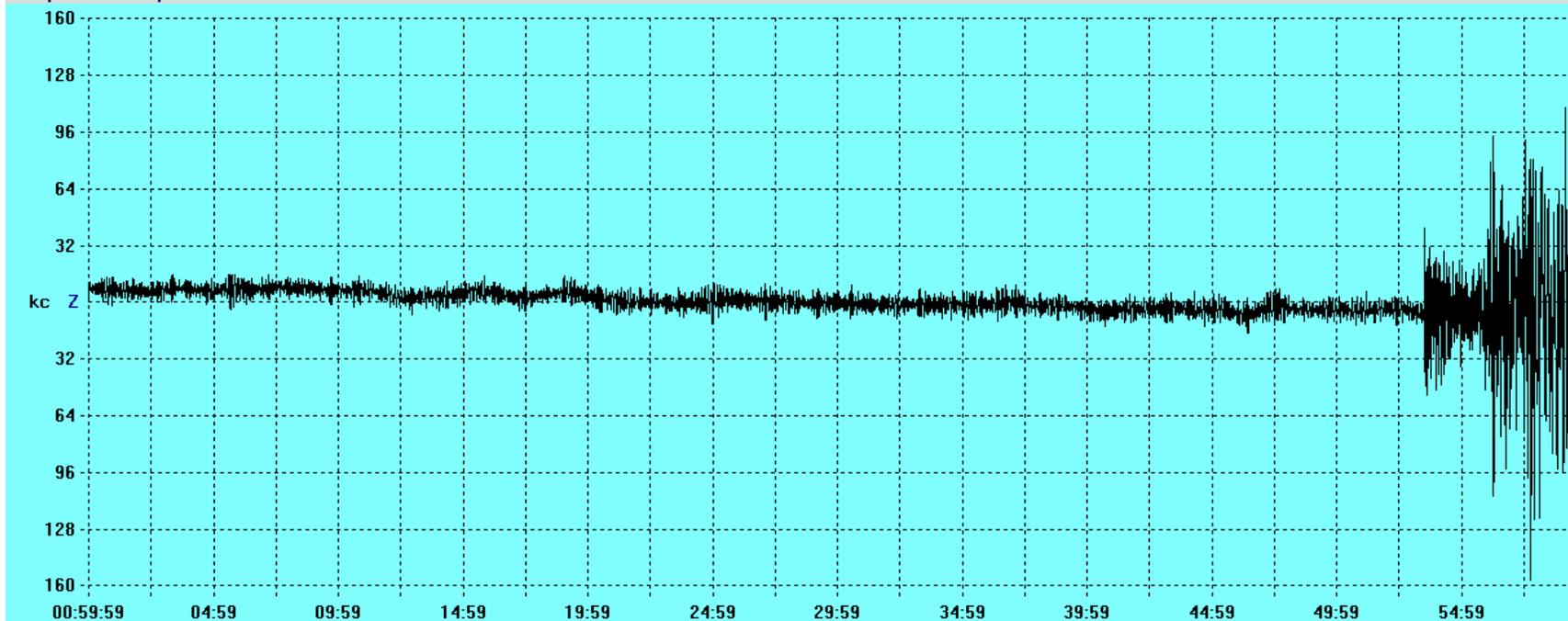


Telessismo: PDE-Q 2012 10 05 182257.78 13.03 -91.56 50 5.5 MwGS

O sismograma a seguir não foi filtrado:

Start: 10/08/12 0:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 109350/-156574 X: 1:00:00 Y: 160kc

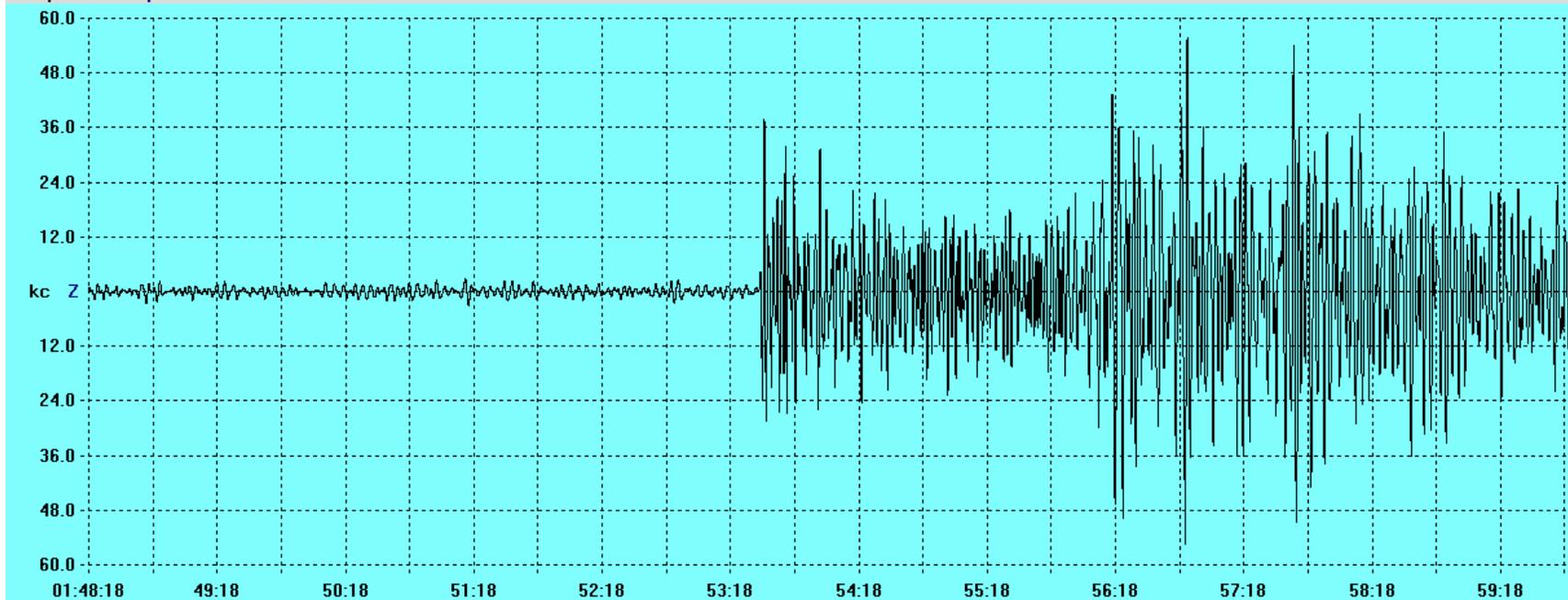


Telessismo: PDE-Q 2012 10 08 015026.21 -21.73 -68.17 122 5.7 MwWCMT

Versão filtrada (detalhe) do sismograma acima:

Start: 10/08/12 0:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 55798/-55493 X: 11:40.0 Y: 60kc

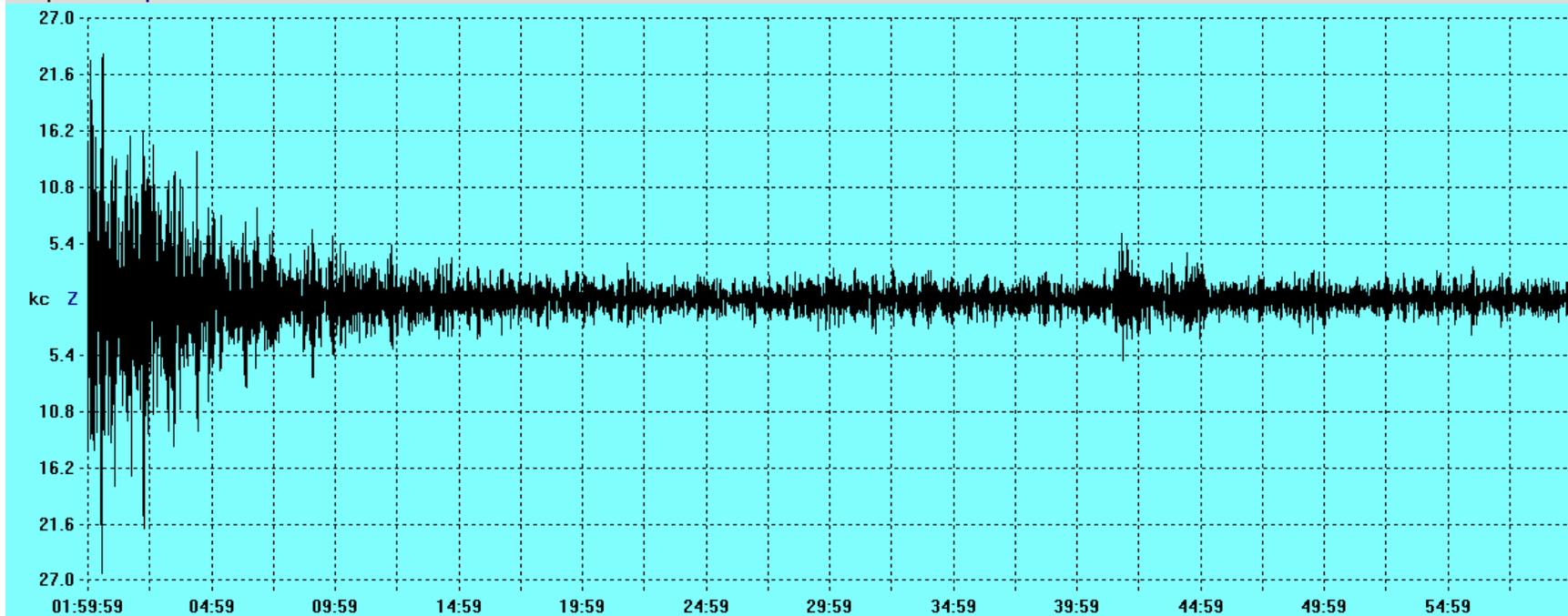


Telessismo: PDE-Q 2012 10 08 015026.21 -21.73 -68.17 122 5.7 MwWCMT

Hora consecutiva à do sismograma acima (sismograma filtrado – band-pass):

Start: 10/08/12 1:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 23478/-26274 X: 1:00:00 Y: 27kc

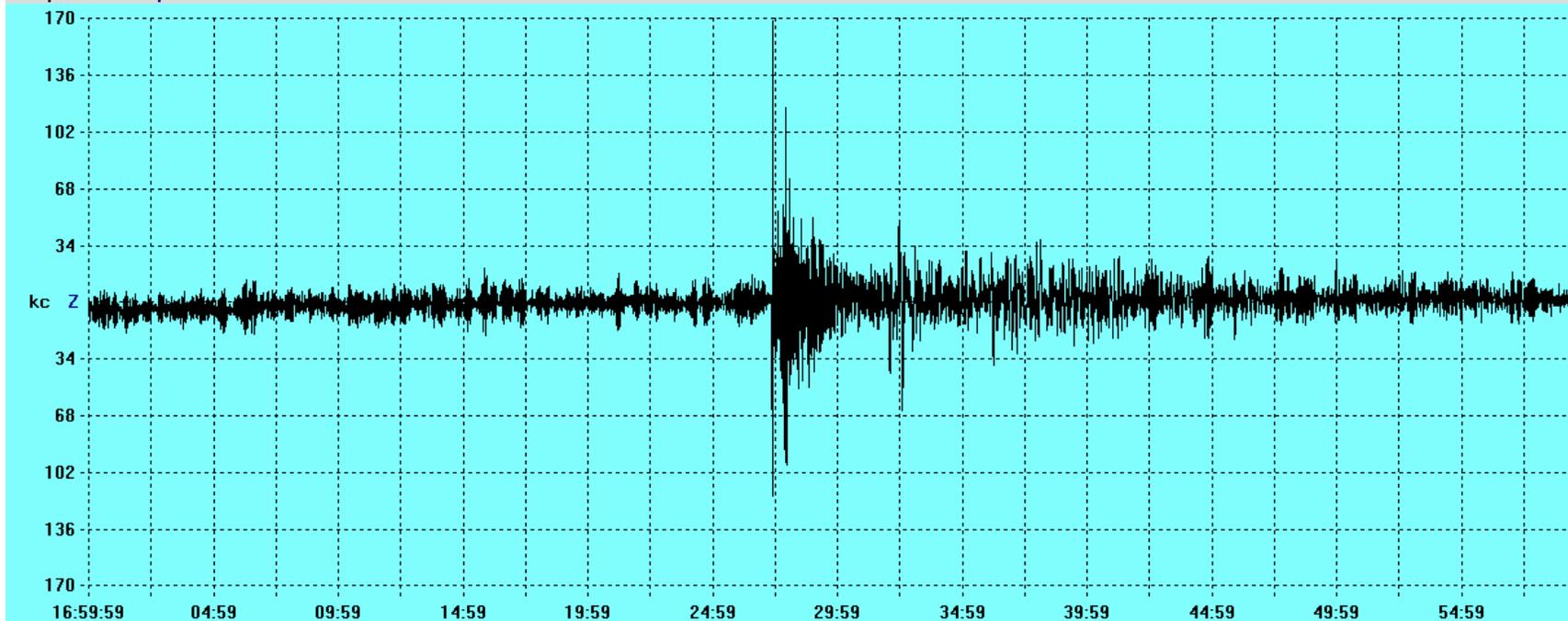


Telessismo: PDE-Q 2012 10 08 015026.21 -21.73 -68.17 122 5.7 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 10/11/12 16:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 167758/-115972 X: 1:00:00 Y: 170kc

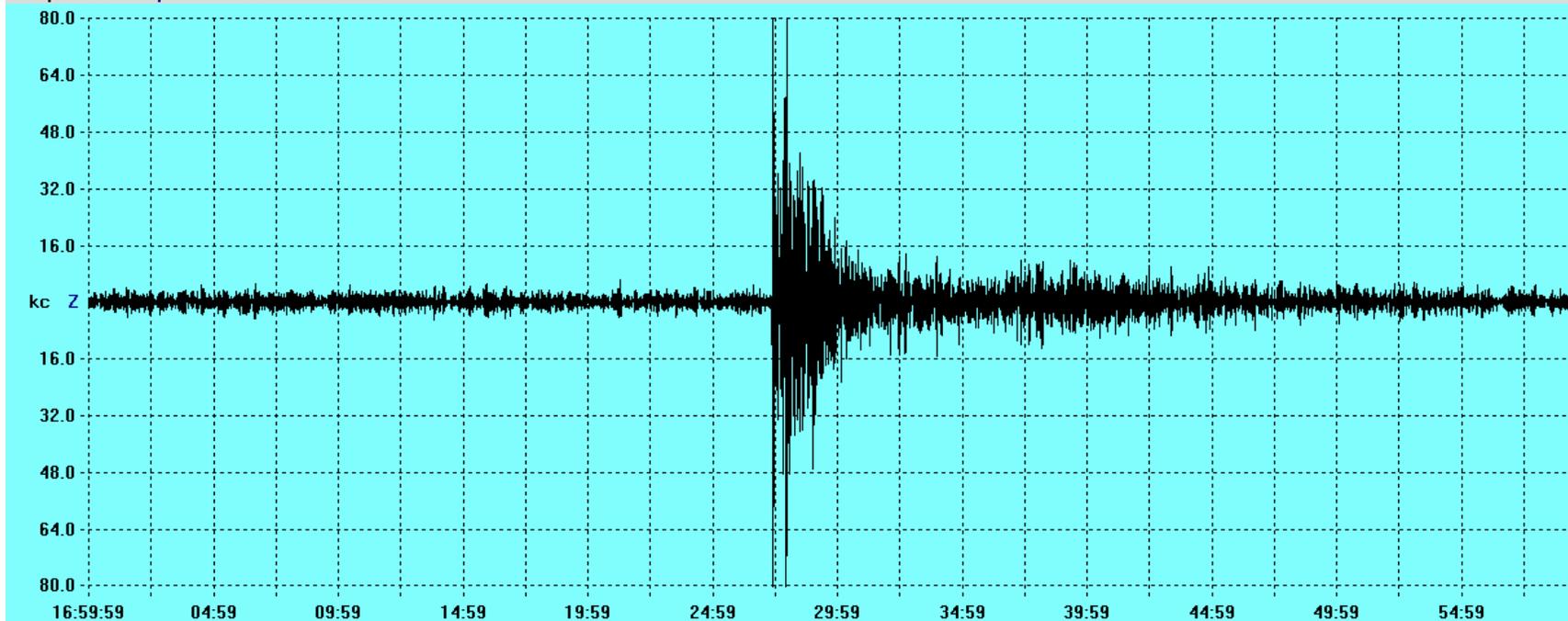


Telessismo: PDE-Q 2012 10 11 172209.92 -32.87 -70.31 81 5.5 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 10/11/12 16:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 113203/-89446 X: 1:00:00 Y: 80kc

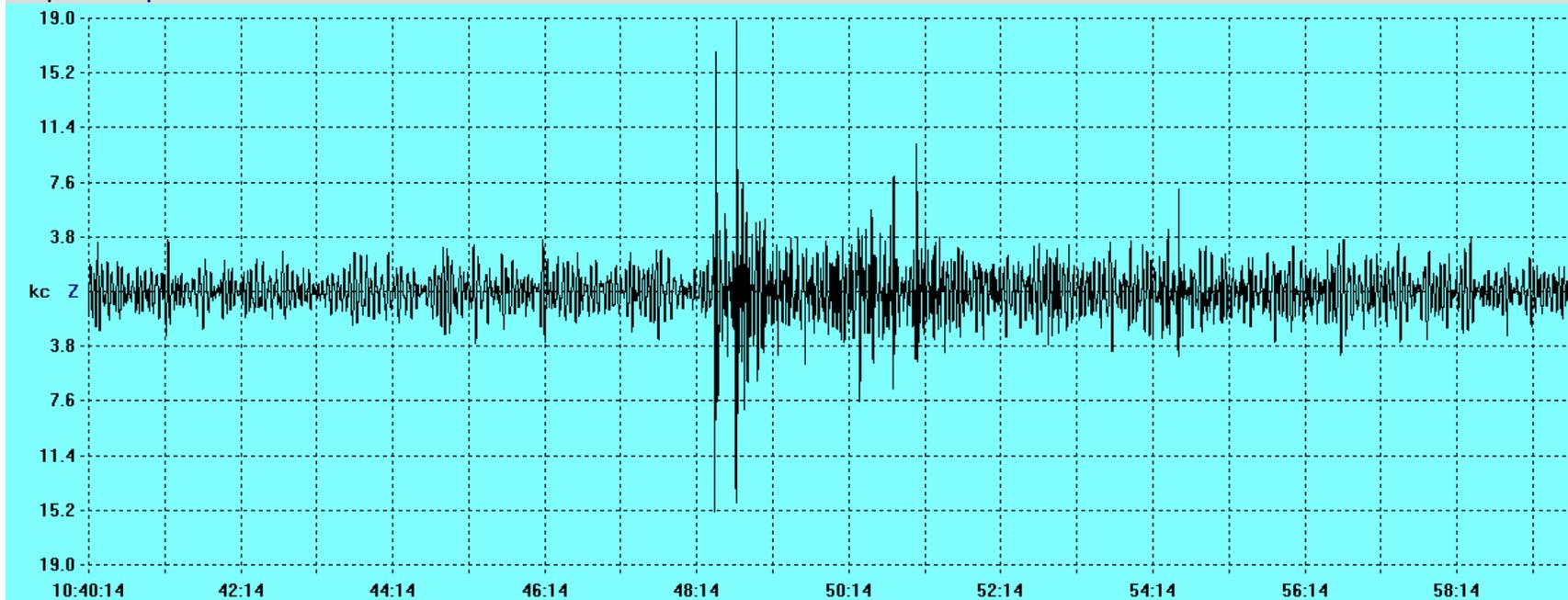


Telessismo: PDE-Q 2012 10 11 172209.92 -32.87 -70.31 81 5.5 MwWCMT

O sismograma a seguir foi filtrado usando-se um filtro band-pass:

Start: 10/14/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 18778/-15273 X: 19:42.0 Y: 19kc

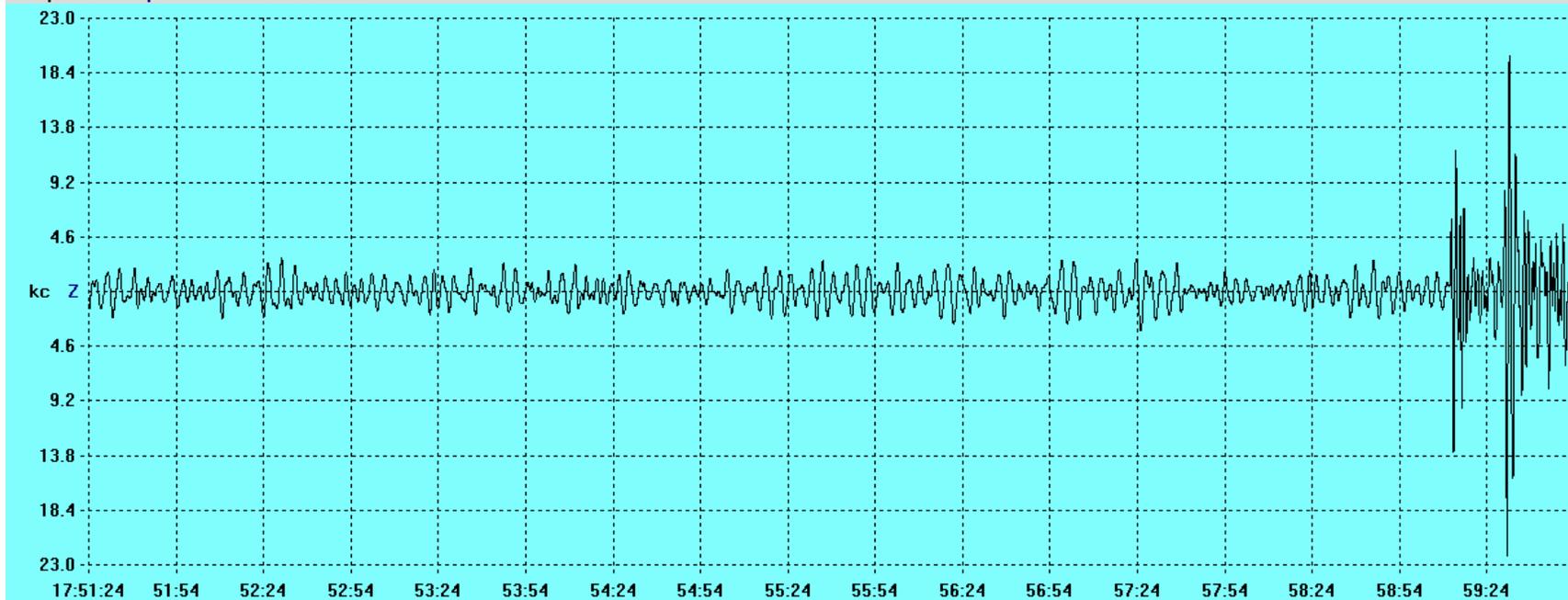


Telessismo: PDE-Q 2012 10 14 104126.93 14.77 -92.23 101 5.5 MwRMT

O sismograma a seguir foi filtrado usando-se um filtro band-pass:

Start: 10/15/12 16:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 19841/-22288 X: 8:34.0 Y: 23kc

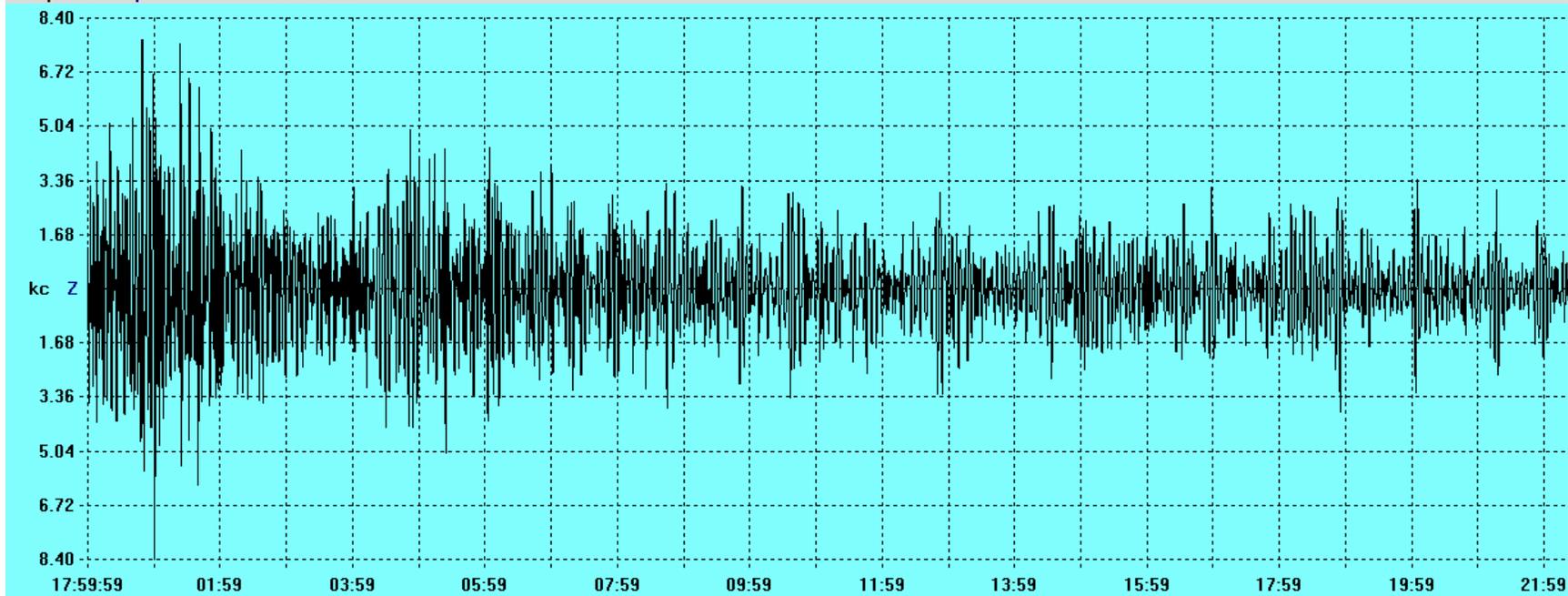


Telessismo: PDE-Q 2012 10 15 175220.97 14.06 -91.00 82 5.5 MwGS

Hora consecutiva à do sismograma acima (sismograma filtrado usando-se um filtro band-pass):

Start: 10/15/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 7741/-8369 X: 22:23.0 Y: 8.4kc

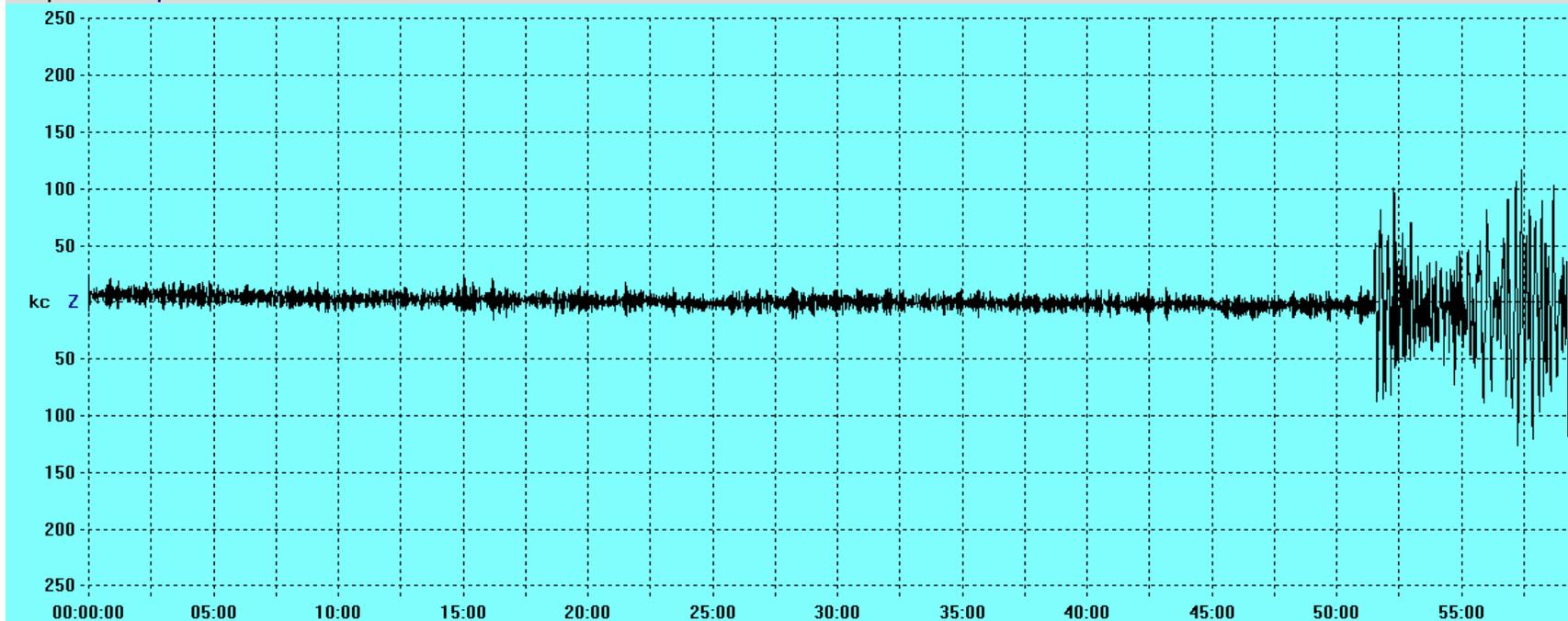


Telessismo: PDE-Q 2012 10 15 175220.97 14.06 -91.00 82 5.5 MwGS

O sismograma a seguir não foi filtrado:

Start: 10/24/12 0:00:00 UTC Station: SAML 8.9489S 63.1831W Samples: 144000 SPS: 39.999999

Max/Min: 236573/-243395 X: 1:00:00 Y: 250kc

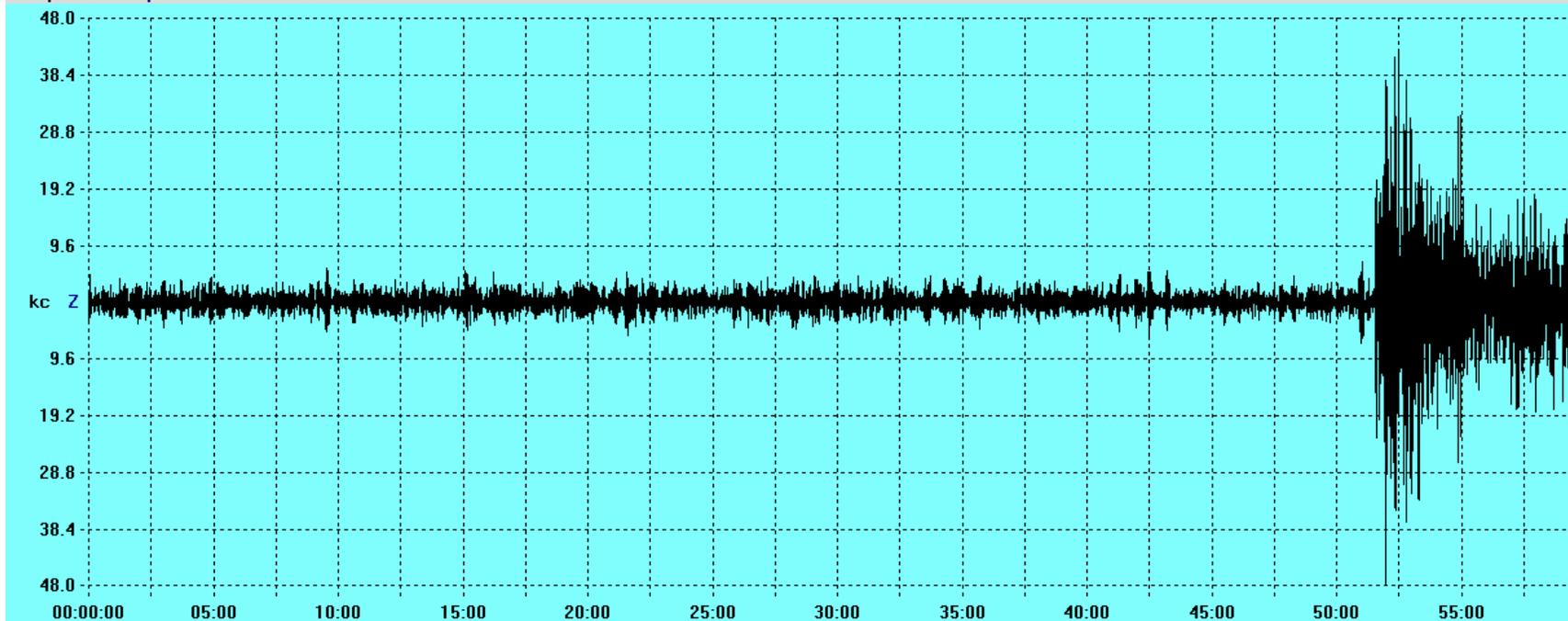


Telessimo: PDE-Q 2012 10 24 004532.93 10.07 -85.30 17 6.5 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 10/24/12 0:00:00 UTC Station: SAML 8.9489S 63.1831W Samples: 144000 SPS: 39.999999

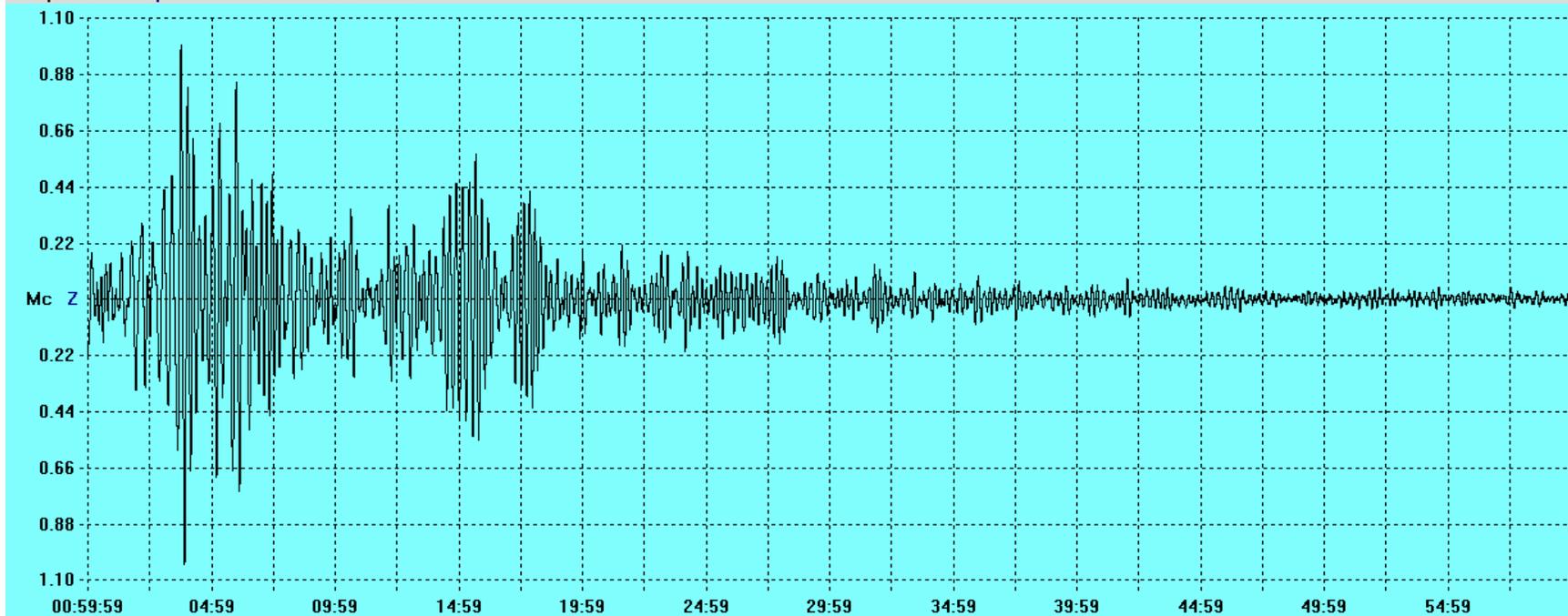
Max/Min: 42103/-47872 X: 1:00:00 Y: 48kc



Telessimo: PDE-Q 2012 10 24 004532.93 10.07 -85.30 17 6.5 MwWCMT

Hora consecutiva à do sismograma acima (sismograma não-filtrado):

Start: 10/24/12 0:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 993894/-1037331 X: 1:00:00 Y: 1.1Mc

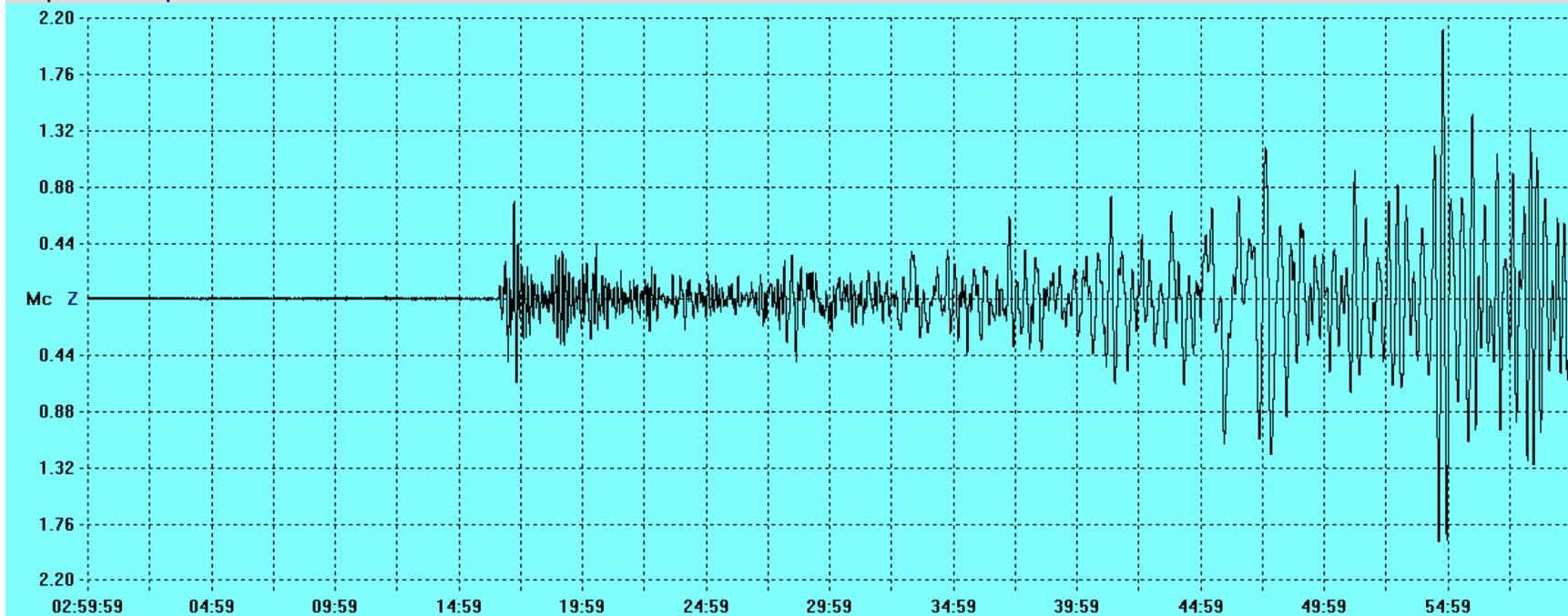


Telessimo: PDE-Q 2012 10 24 004532.93 10.07 -85.30 17 6.5 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 10/28/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 2105556/-1897586 X: 1:00:00 Y: 2.2Mc

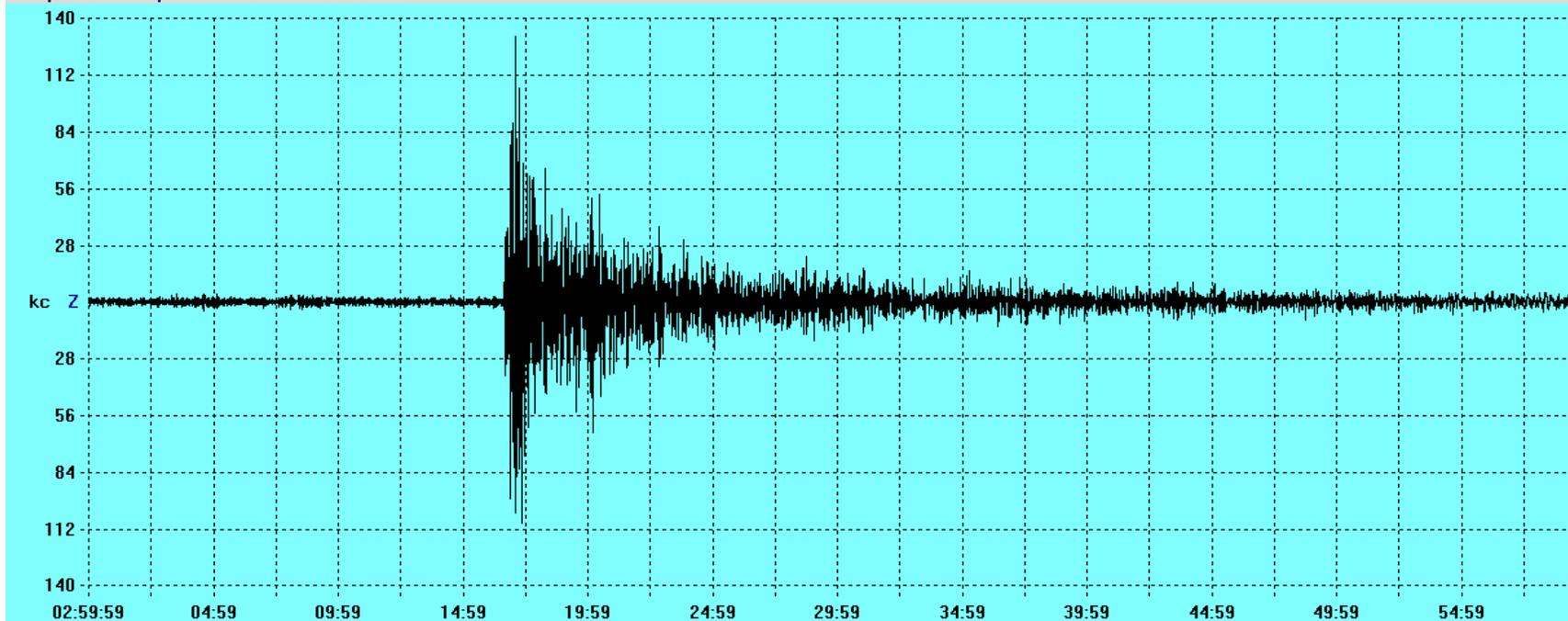


Telessismo: PDE-Q 2012 10 28 030409.65 52.74 -132.13 20 7.8 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 10/28/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 130898/-108841 X: 1:00:00 Y: 140kc



Telessismo: PDE-Q 2012 10 28 030409.65 52.74 -132.13 20 7.8 MwWCMT