

# **Apêndice**

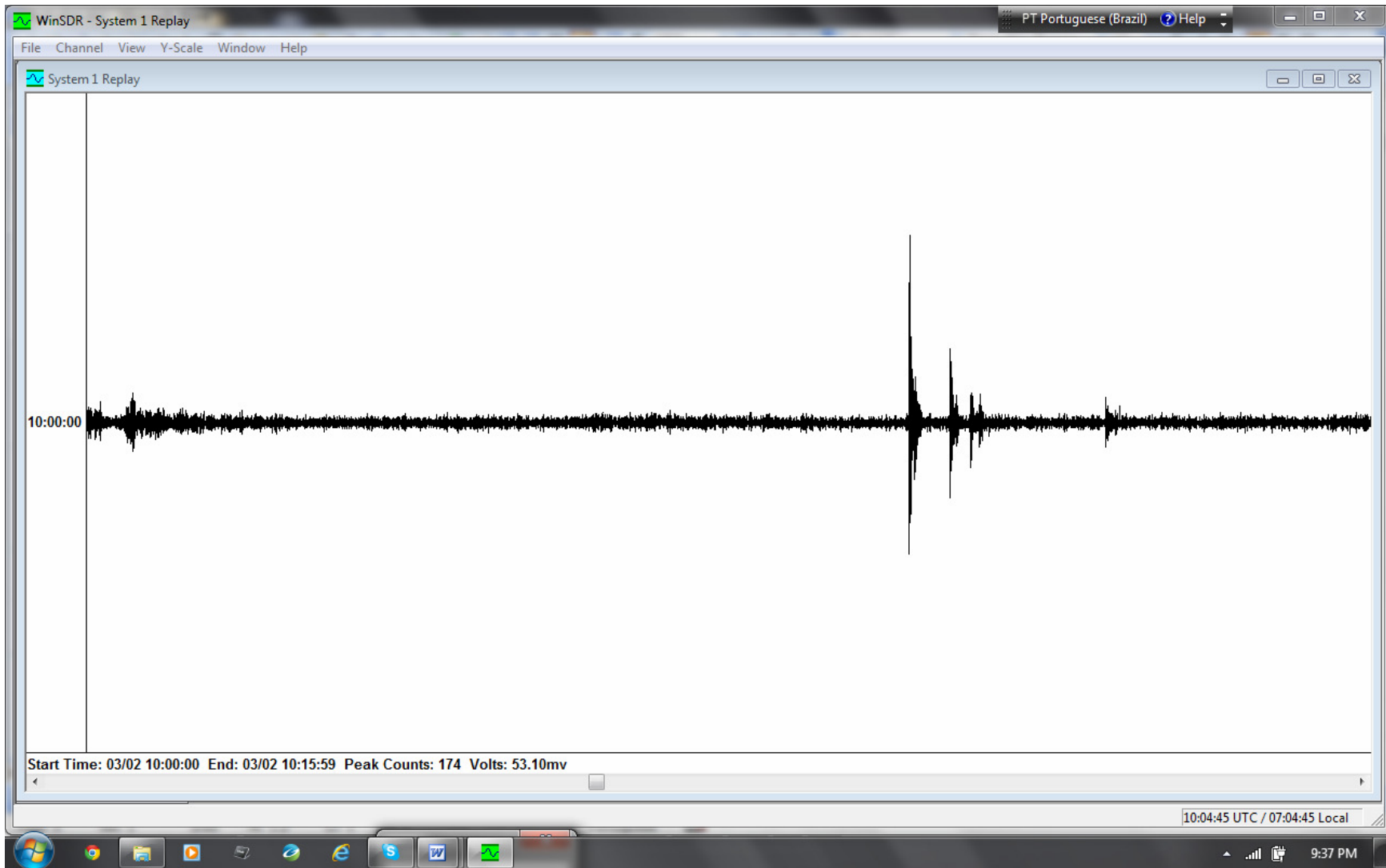
## **Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio**

**Março  
2012**

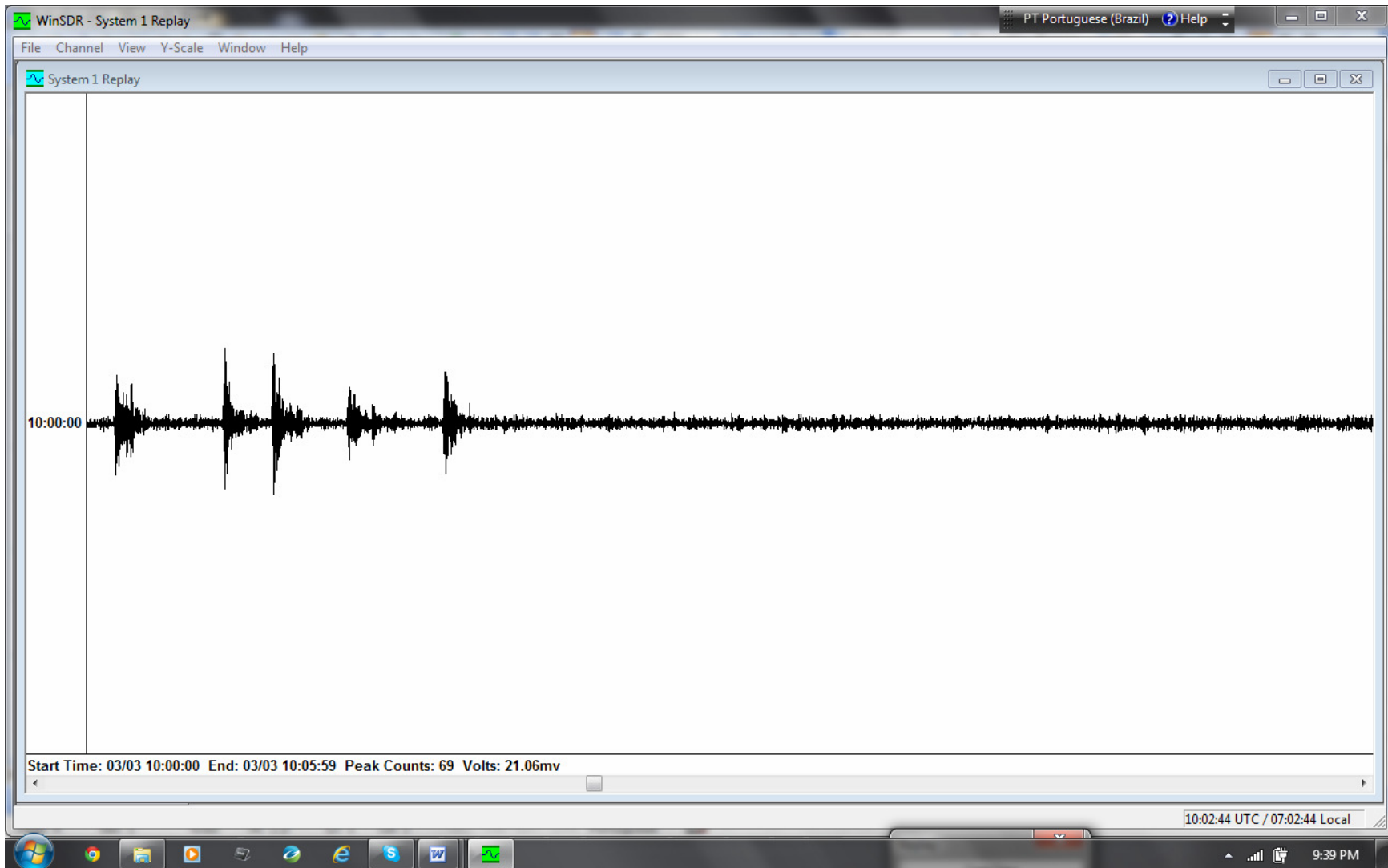
**Registros da Estação SANT1**



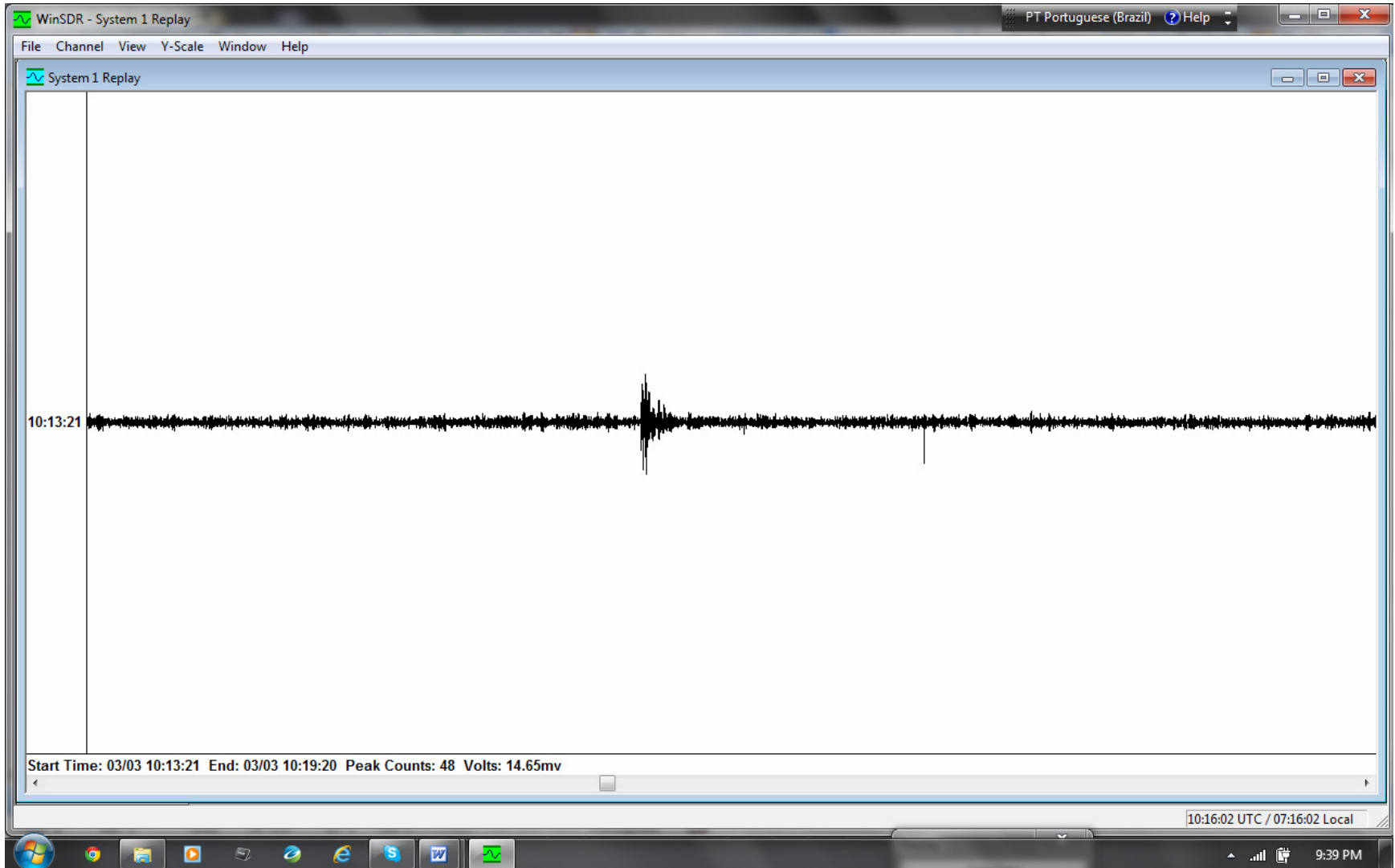
Evento 1



Evento 2



Evento 3



Evento 4

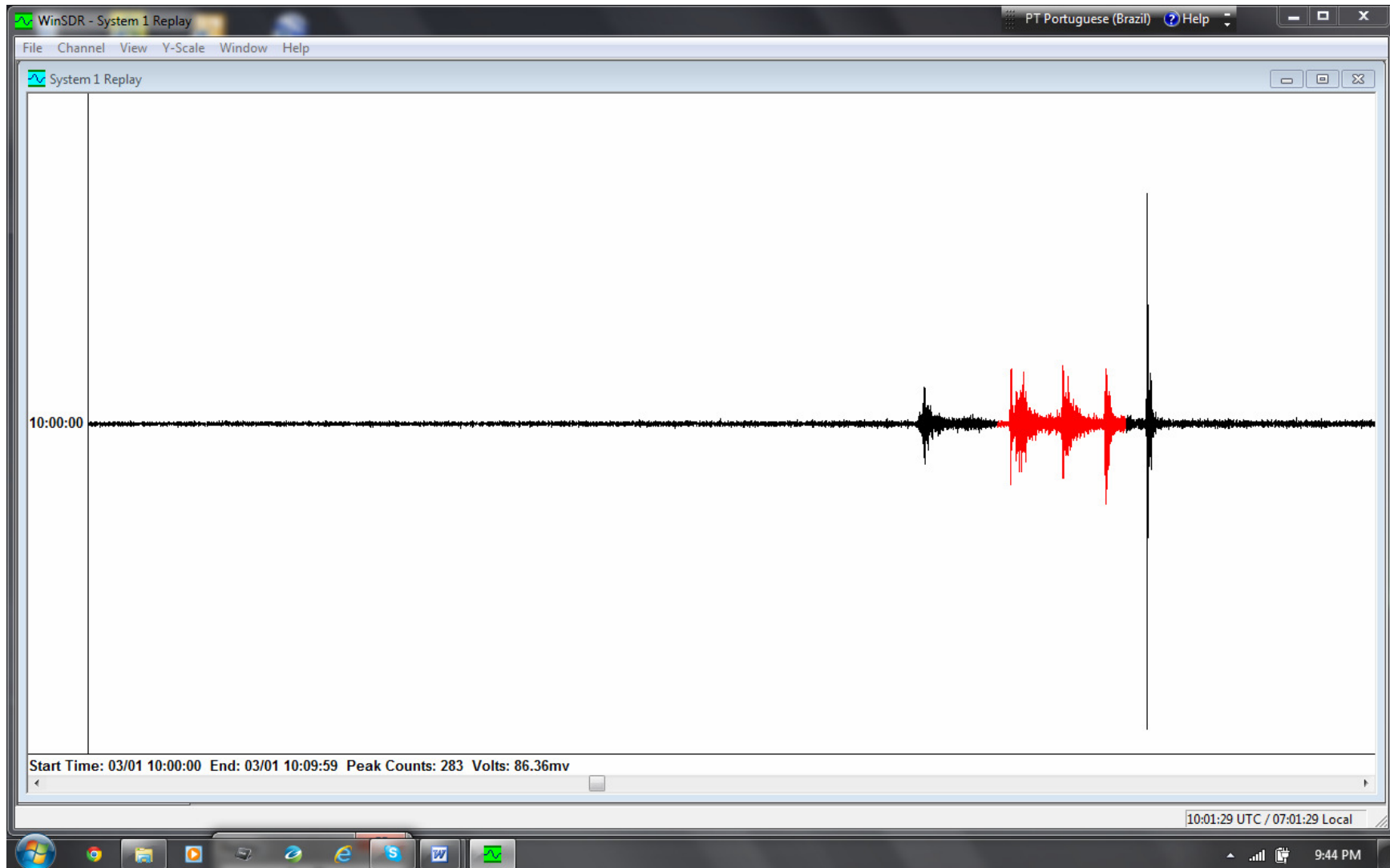
# **Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio**

**Março  
2012**

## **Registros da Estação SANT2**

### **Observação**

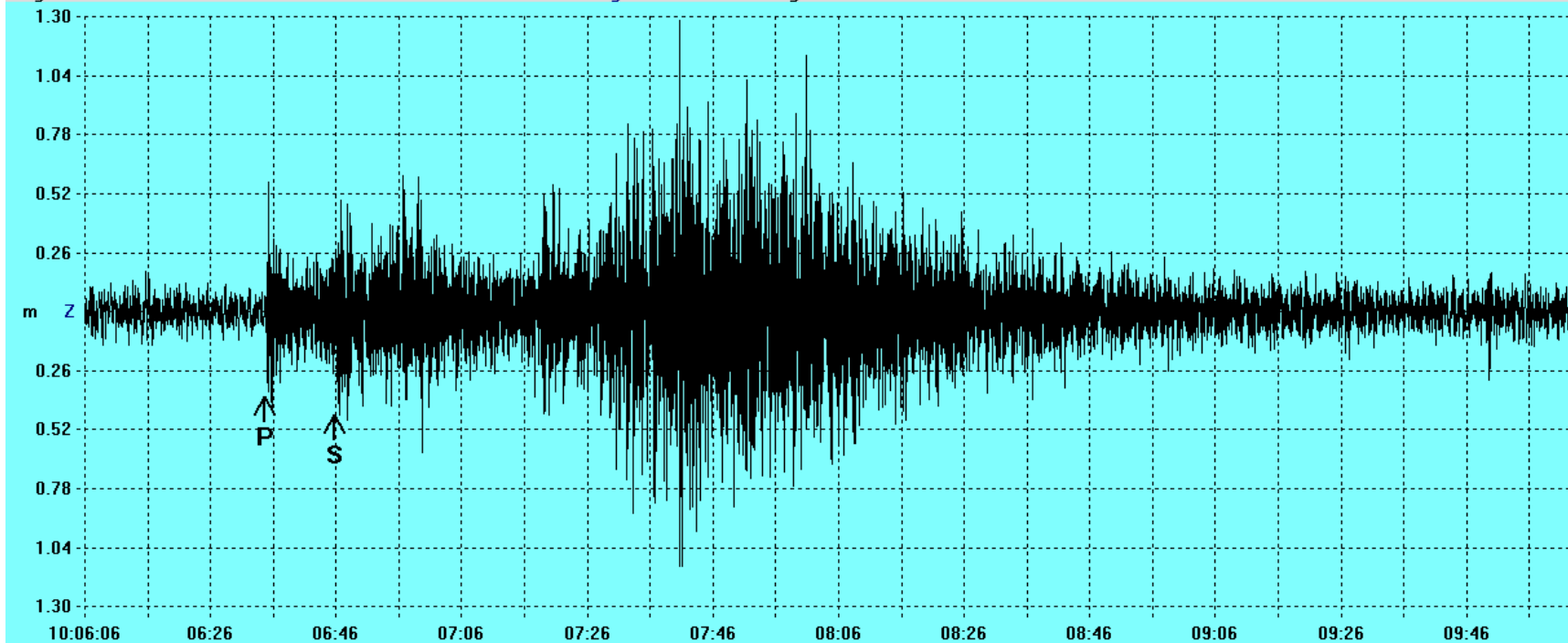
Todos os registros da estação SAML mostrados nesta seção foram filtrados com um filtro do tipo high-pass (acima de 1.0 Hz, com 4 polos). Quando foi empregado outro tipo de filtro, o procedimento foi indicado em cada caso.



Evento 1

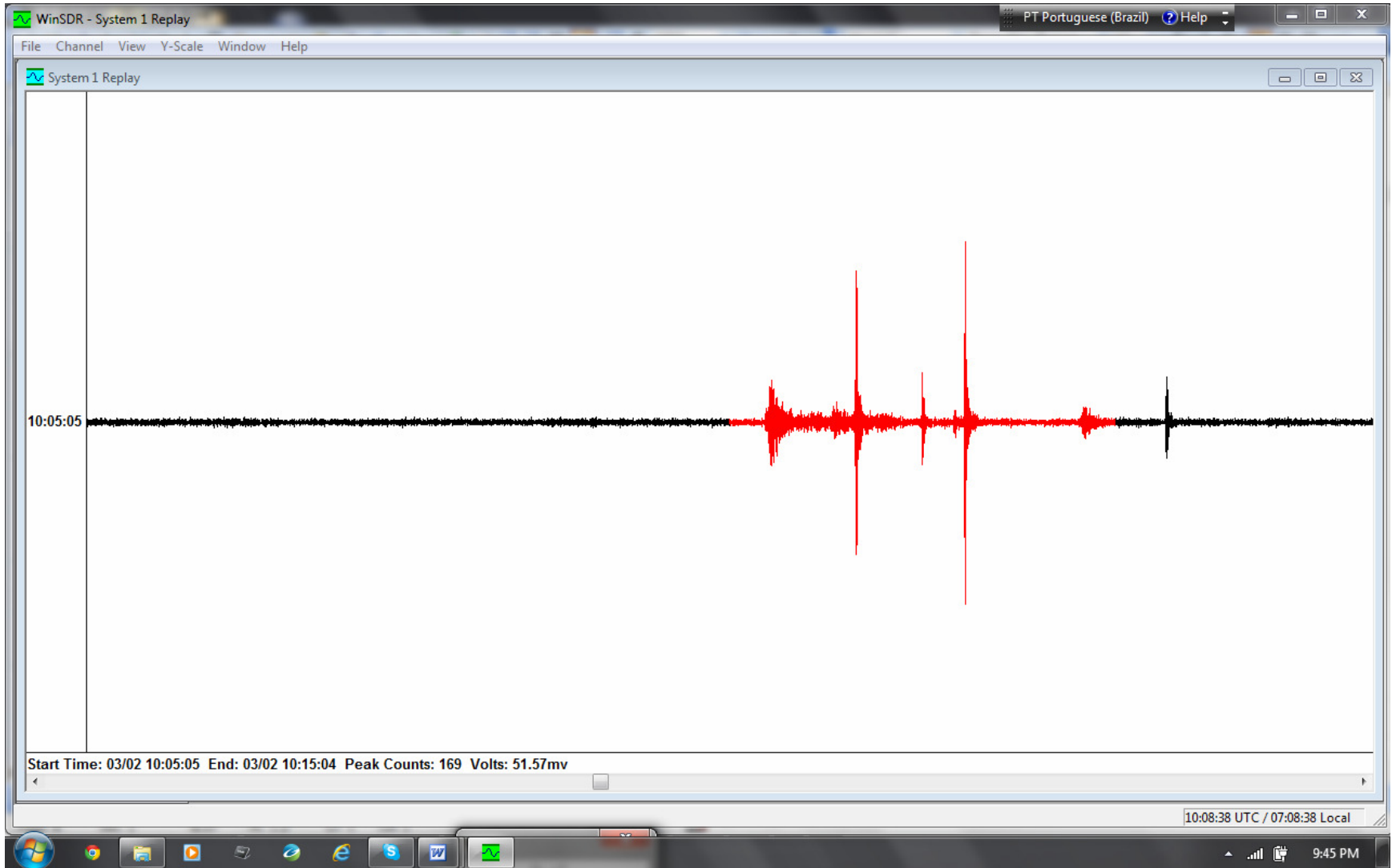
# Registro de SAML:

Start: 3/01/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:59.0 Y: 1.3m Max/Min: 3763/-3293 Peak: 1.281 m/sec View Peak: 1.281 m/sec  
Org: 10:06:19.6 P: 10:06:34.6 S: 10:06:45.7 Diff: 11.1sec Dist: 0.783deg 87.0km 54.1mi Mag: MI?? JB: 33



Evento 1

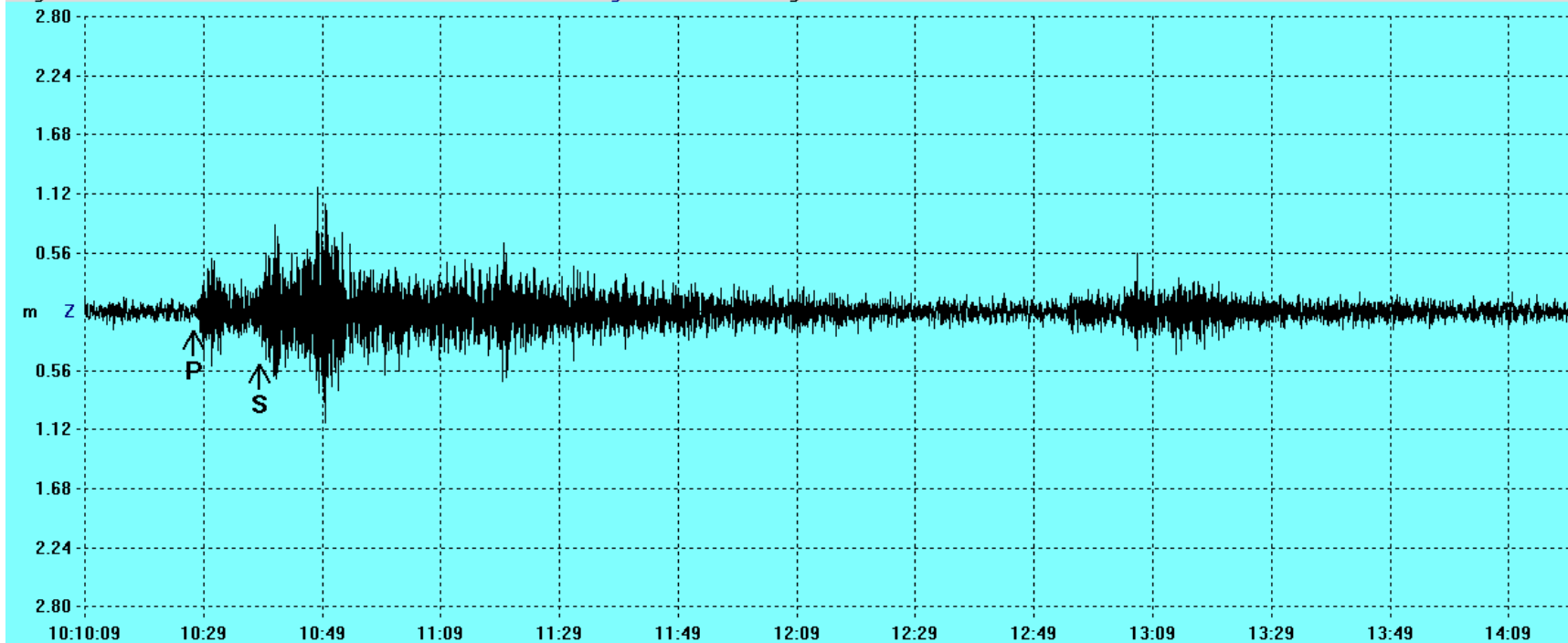




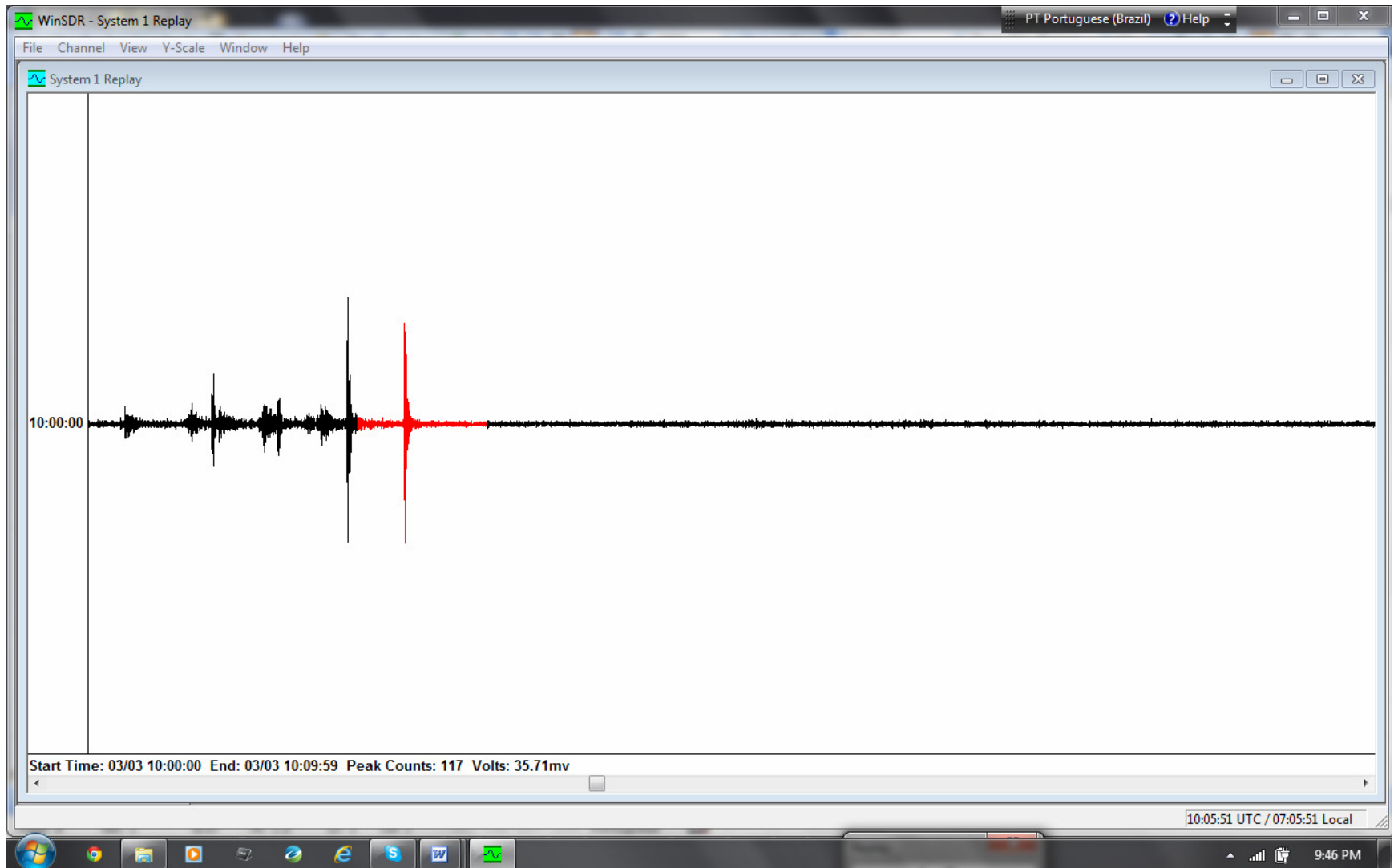
Evento 2

Registro de SAML:

Start: 3/02/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 4:13.0 Y: 2.8m Max/Min: 6343/-7965 Peak: 2.712 m/sec View Peak: 1.176 m/sec  
Org: 10:10:12.3 P: 10:10:27.3 S: 10:10:38.4 Diff: 11.1sec Dist: 0.783deg 87.0km 54.1mi Mag: MI?? JB: 33



Evento 2

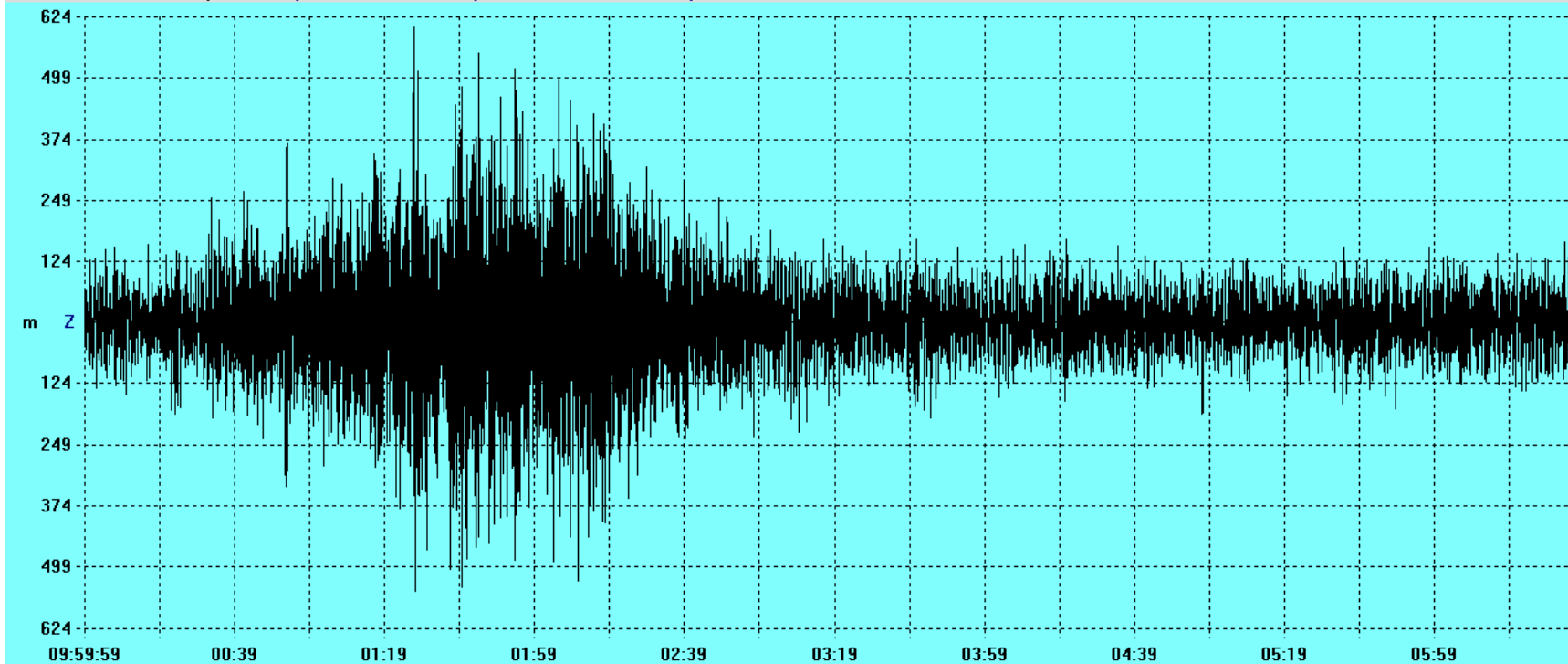


Evento 3

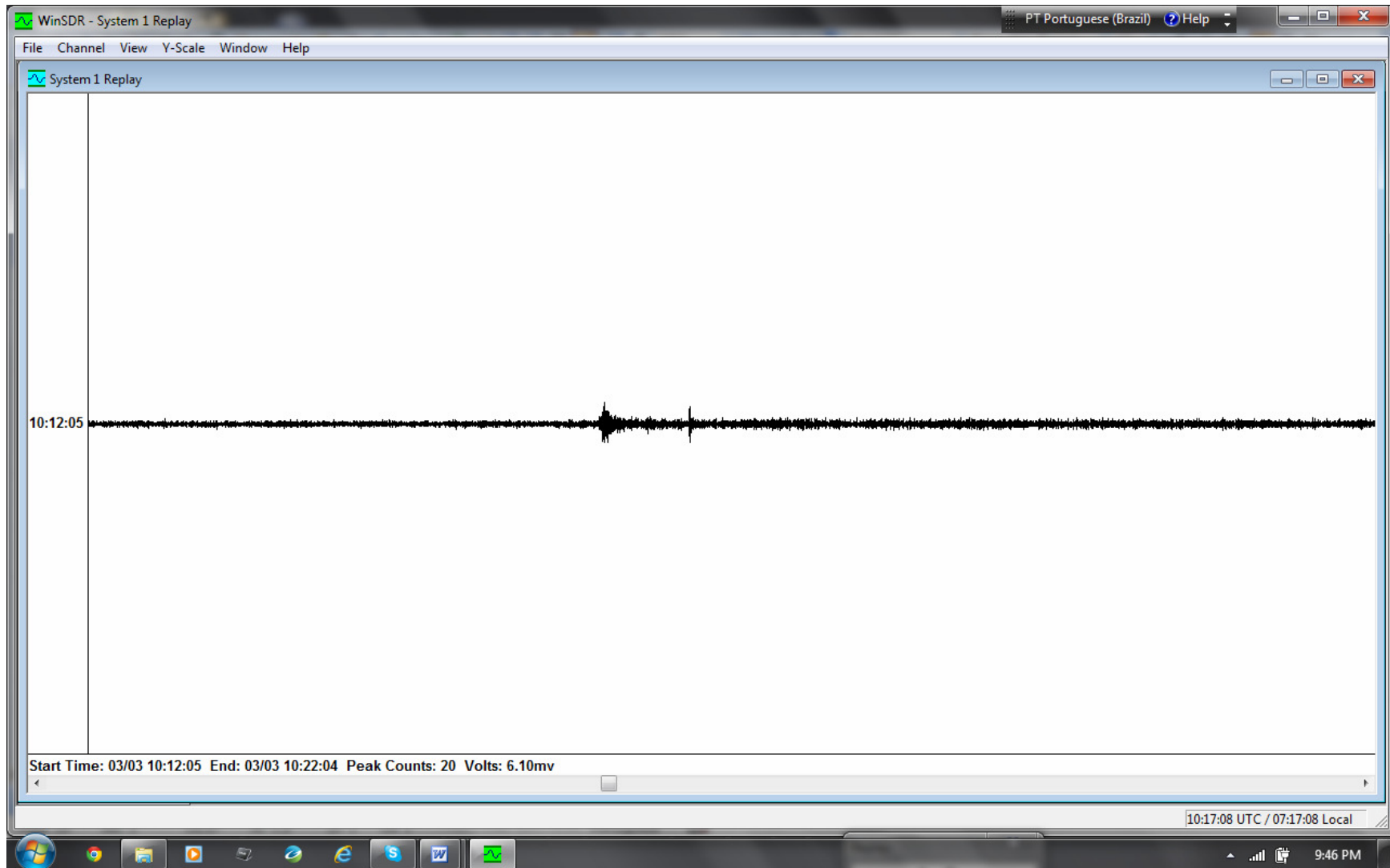
### Registro de SAML:

Start: 3/03/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 6:40.0 Y: 625m Max/Min: 1768/-1613 Peak: 602 m/sec View Peak: 602 m/sec



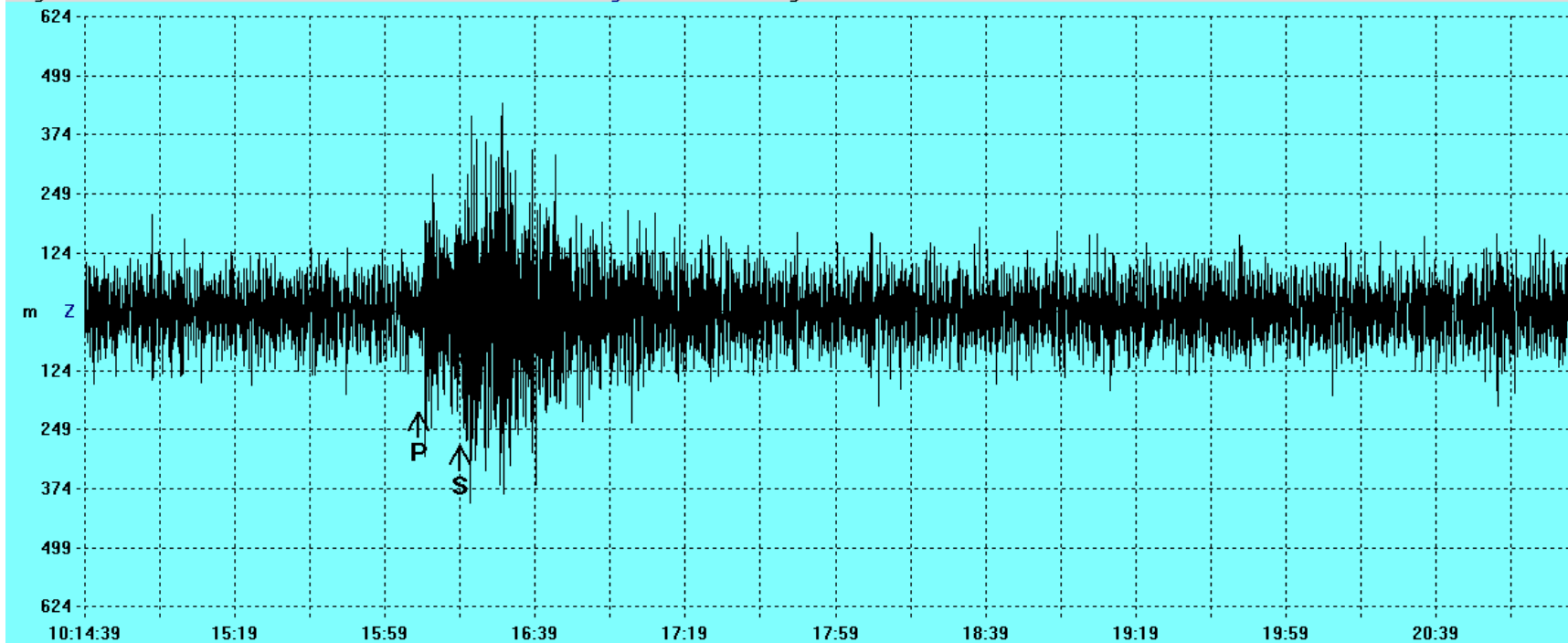
Evento 3



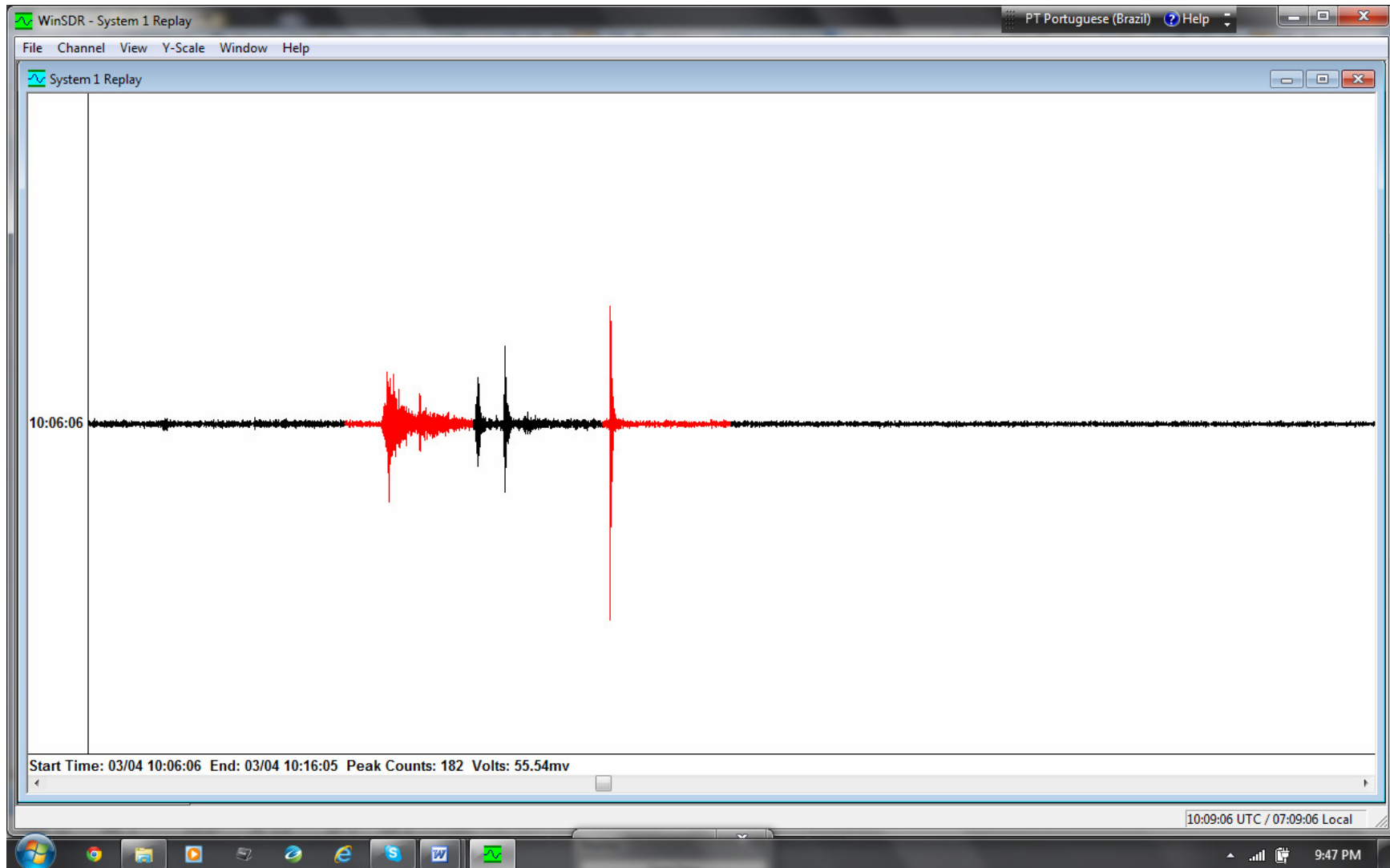
Evento 4

# Registro de SAML:

Start: 3/03/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 6:40.0 Y: 625m Max/Min: 1768/-1613 Peak: 602 m/sec View Peak: 439.6 m/sec  
Org: 10:15:53.0 P: 10:16:07.9 S: 10:16:18.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 4

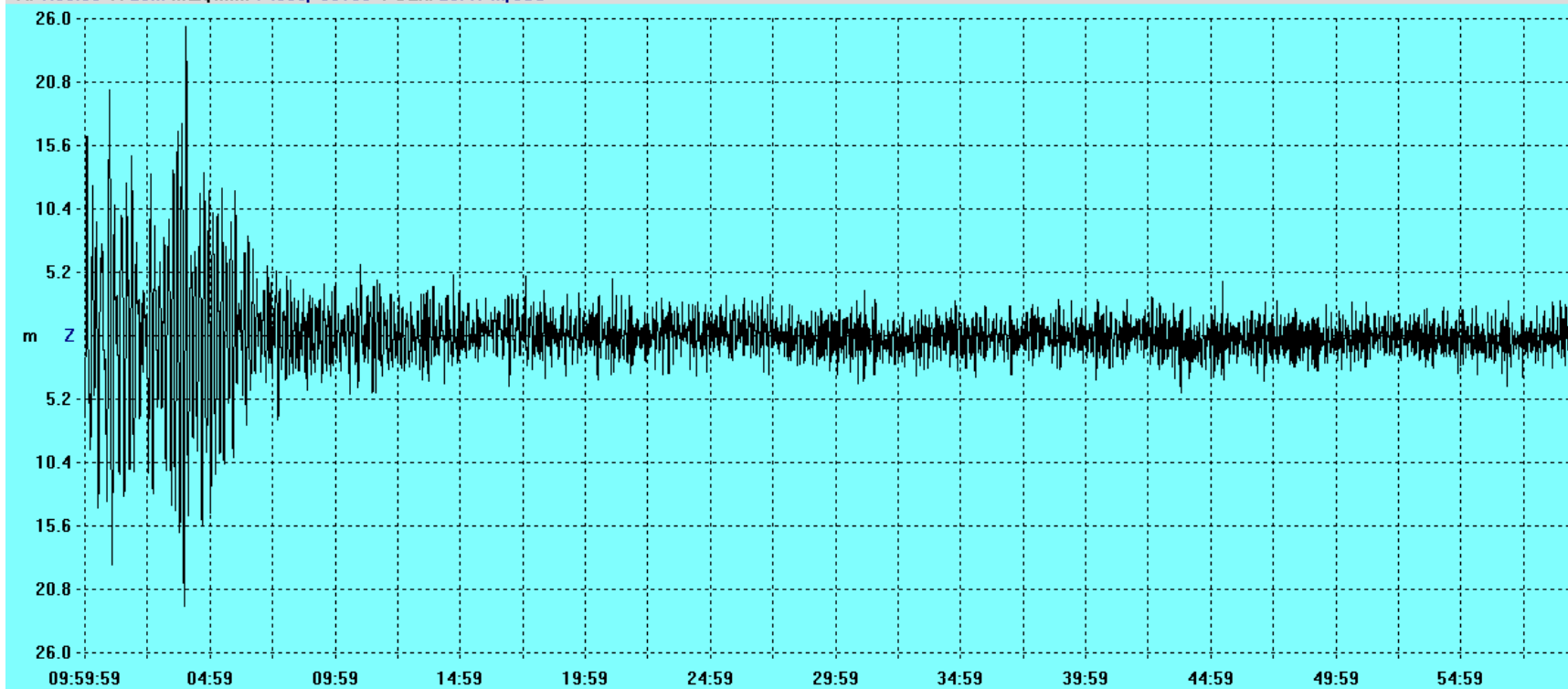


Evento 5

Registro de SAML – sismograma não filtrado – contaminação por fases de telessismo registrado no mesmo horário:

Start: 3/04/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 26m Max/Min: 74638/-65196 Peak: 25.41 m/sec

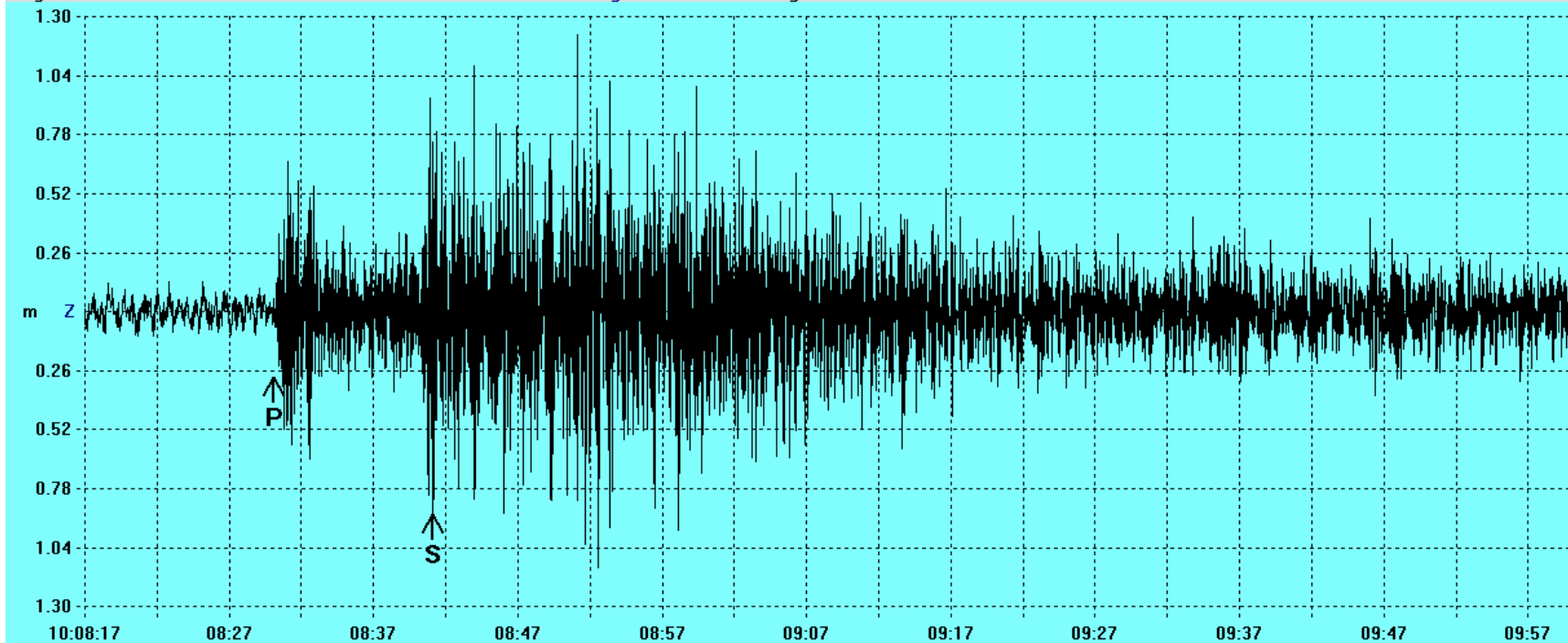


Evento 5

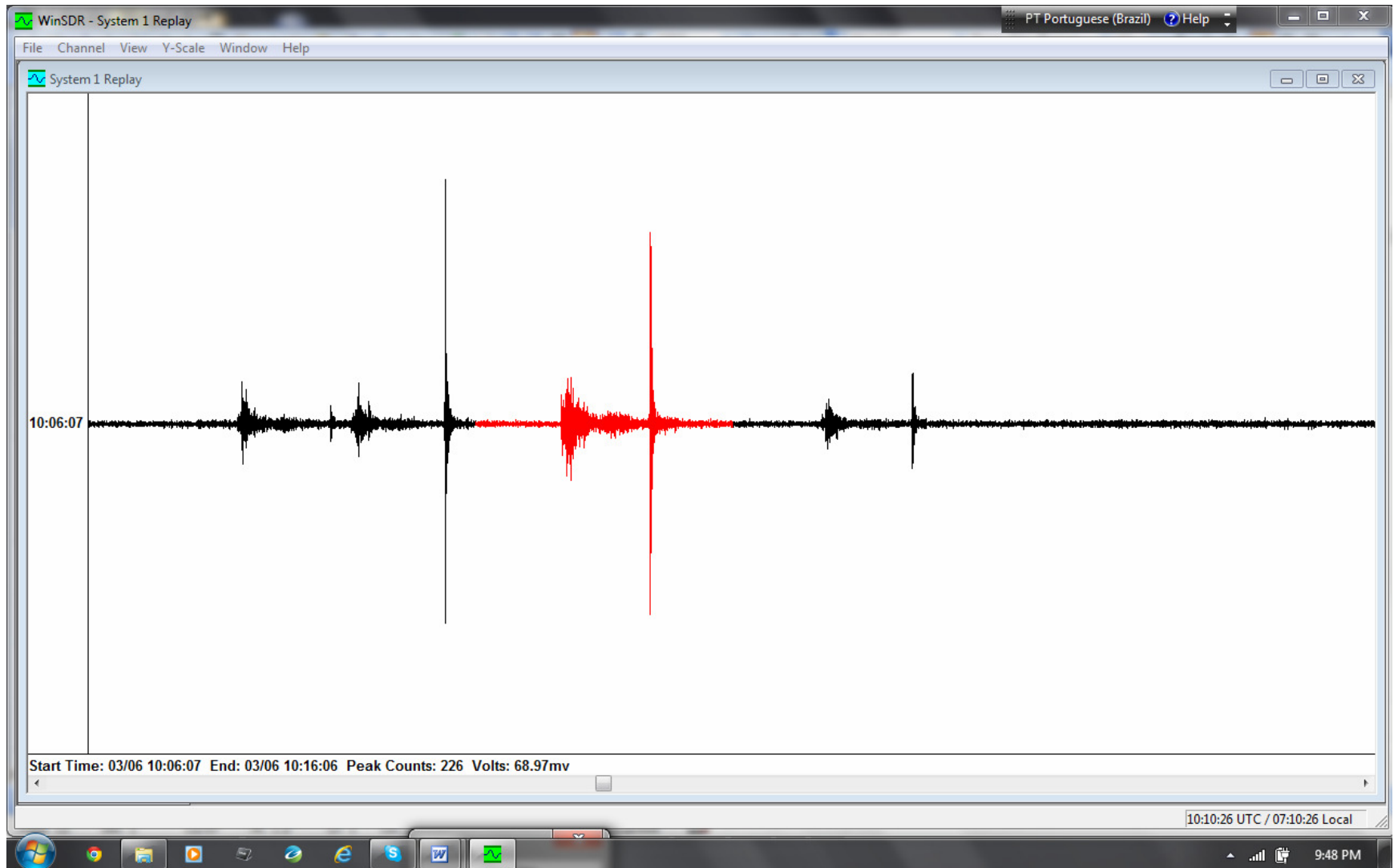


Registro de SAML – filtrado, mostrando o Evento 5 de forma clara:

Start: 3/04/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1.44.0 Y: 1.3m Max/Min: 3574/-3313 Peak: 1.217 m/sec View Peak: 1.217 m/sec  
Org: 10:08:15.2 P: 10:08:30.1 S: 10:08:41.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



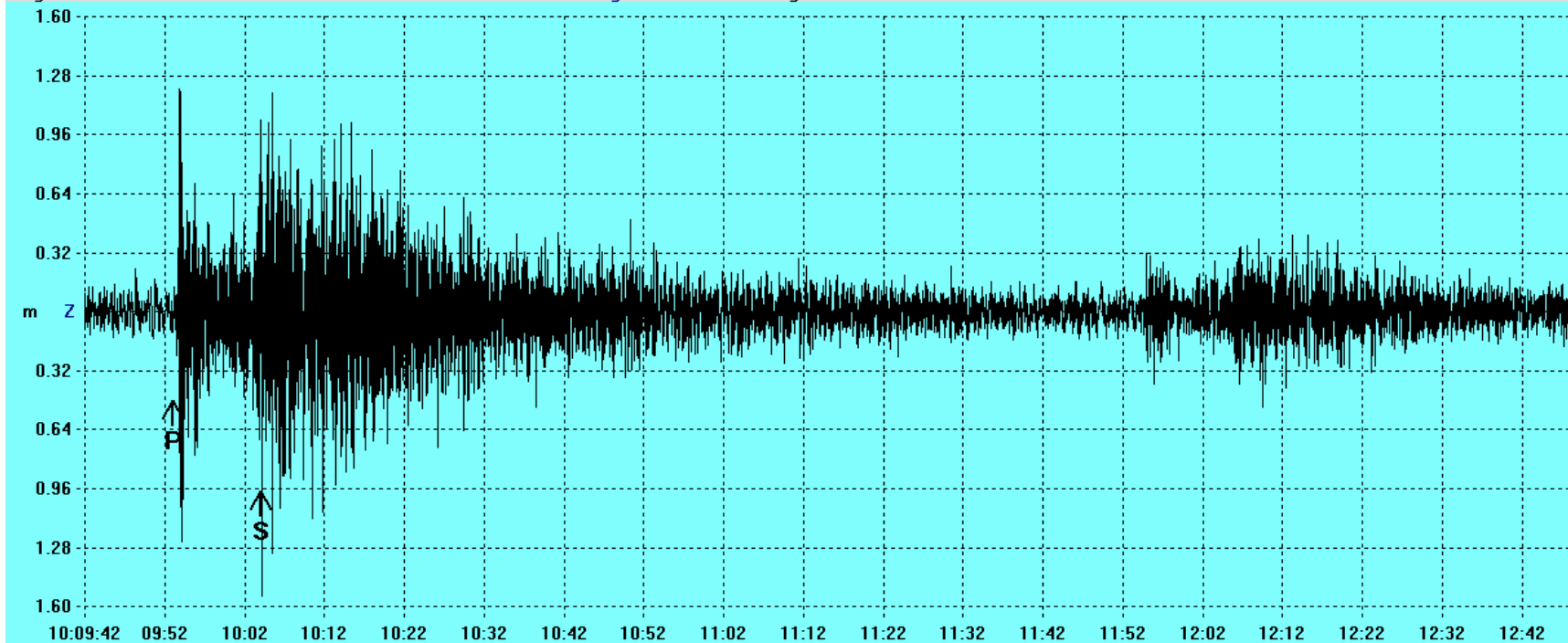
Evento 5



Evento 6

# Registro de SAML:

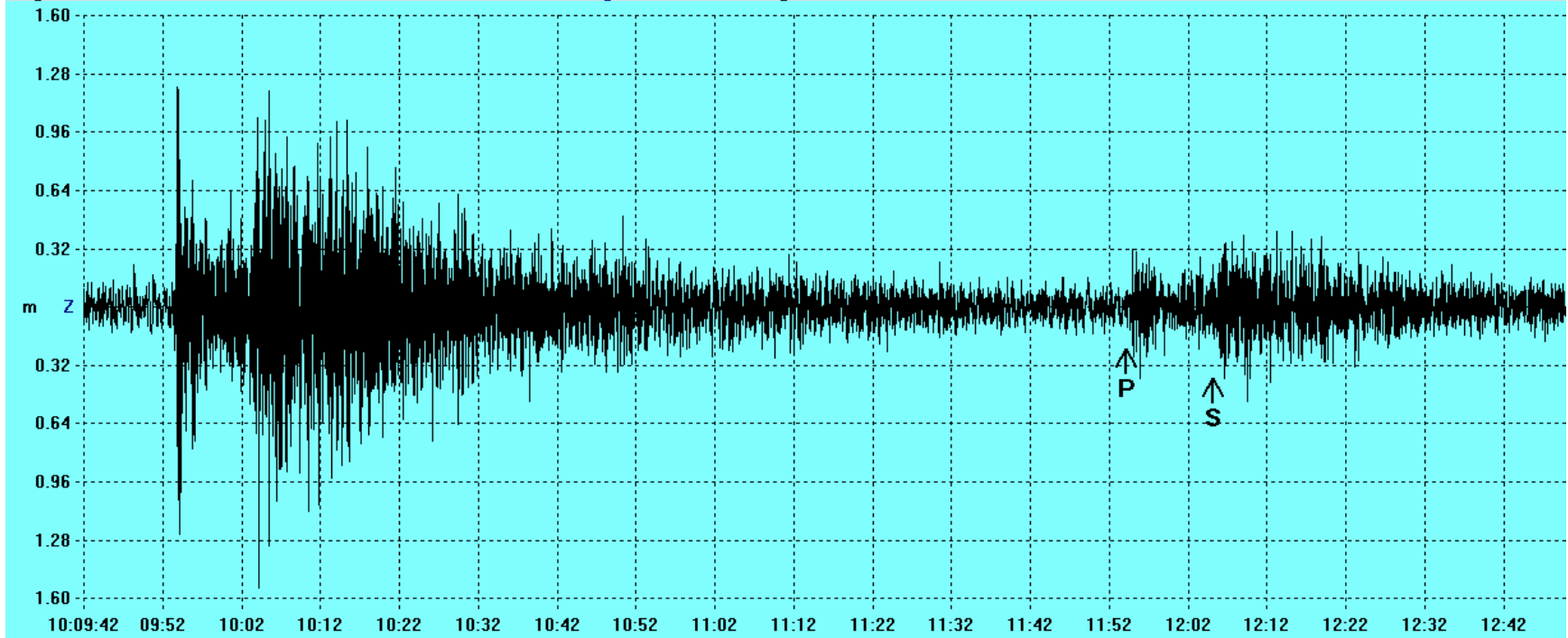
Start: 3/06/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:08.0 Y: 1.6m Max/Min: 3537/-4526 Peak: 1.541 m/sec View Peak: 1.541 m/sec  
Org: 10:09:38.1 P: 10:09:53.0 S: 10:10:04.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 6

Registro de SAML:

Start: 3/06/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:08.0 Y: 1.6m Max/Min: 3537/-4526 Peak: 1.541 m/sec View Peak: 1.541 m/sec  
Org: 10:11:39.2 P: 10:11:54.1 S: 10:12:05.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



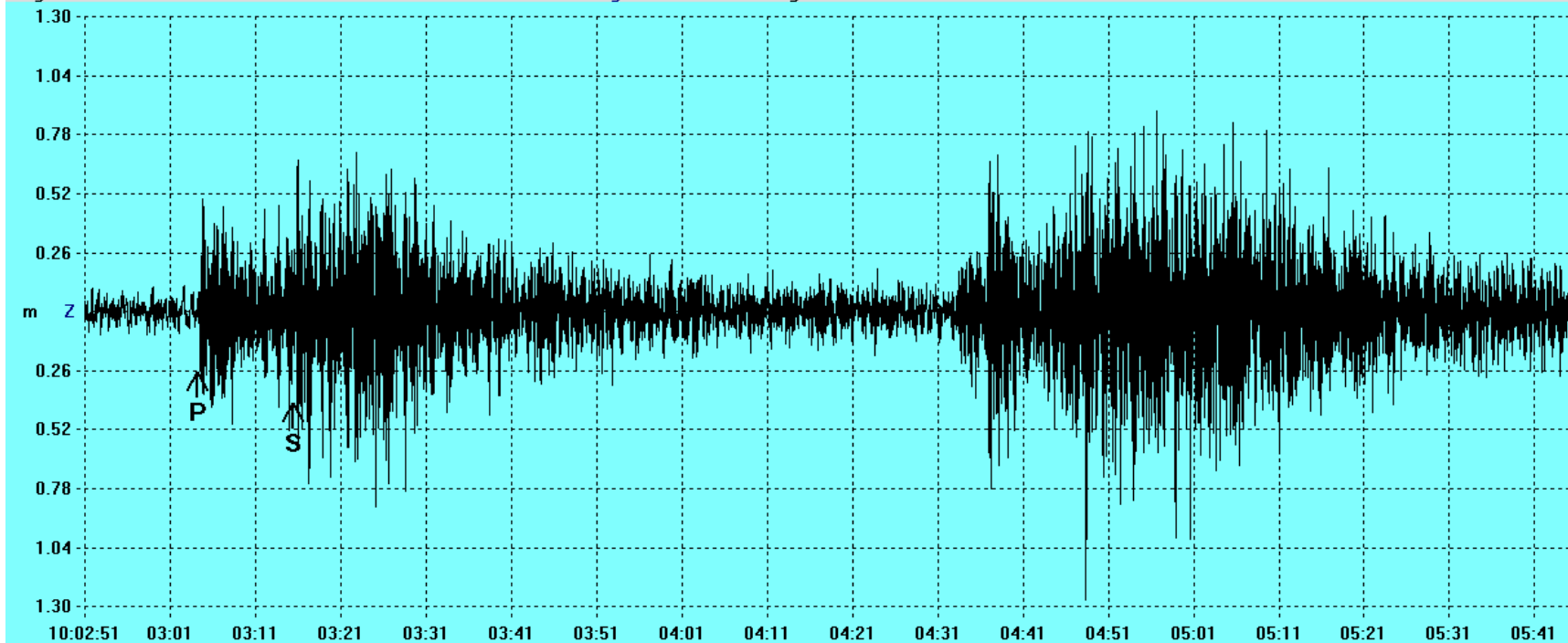
Evento 6



Evento 7

### Registro de SAML:

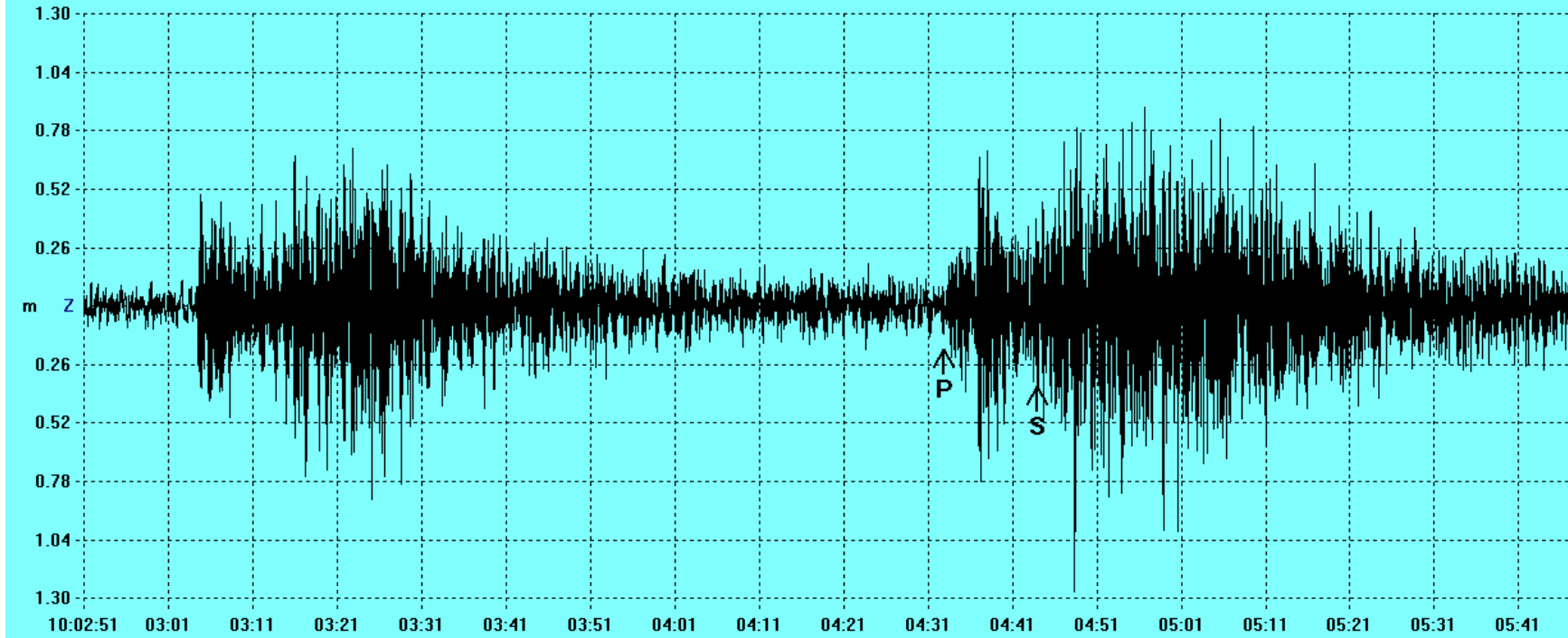
Start: 3/09/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:56.0 Y: 1.3m Max/Min: 2591/-3726 Peak: 1.269 m/sec View Peak: 1.269 m/sec  
Org: 10:02:49.1 P: 10:03:04.2 S: 10:03:15.4 Diff: 11.2sec Dist: 0.793deg 88.2km 54.8mi Mag: MI?? JB: 33



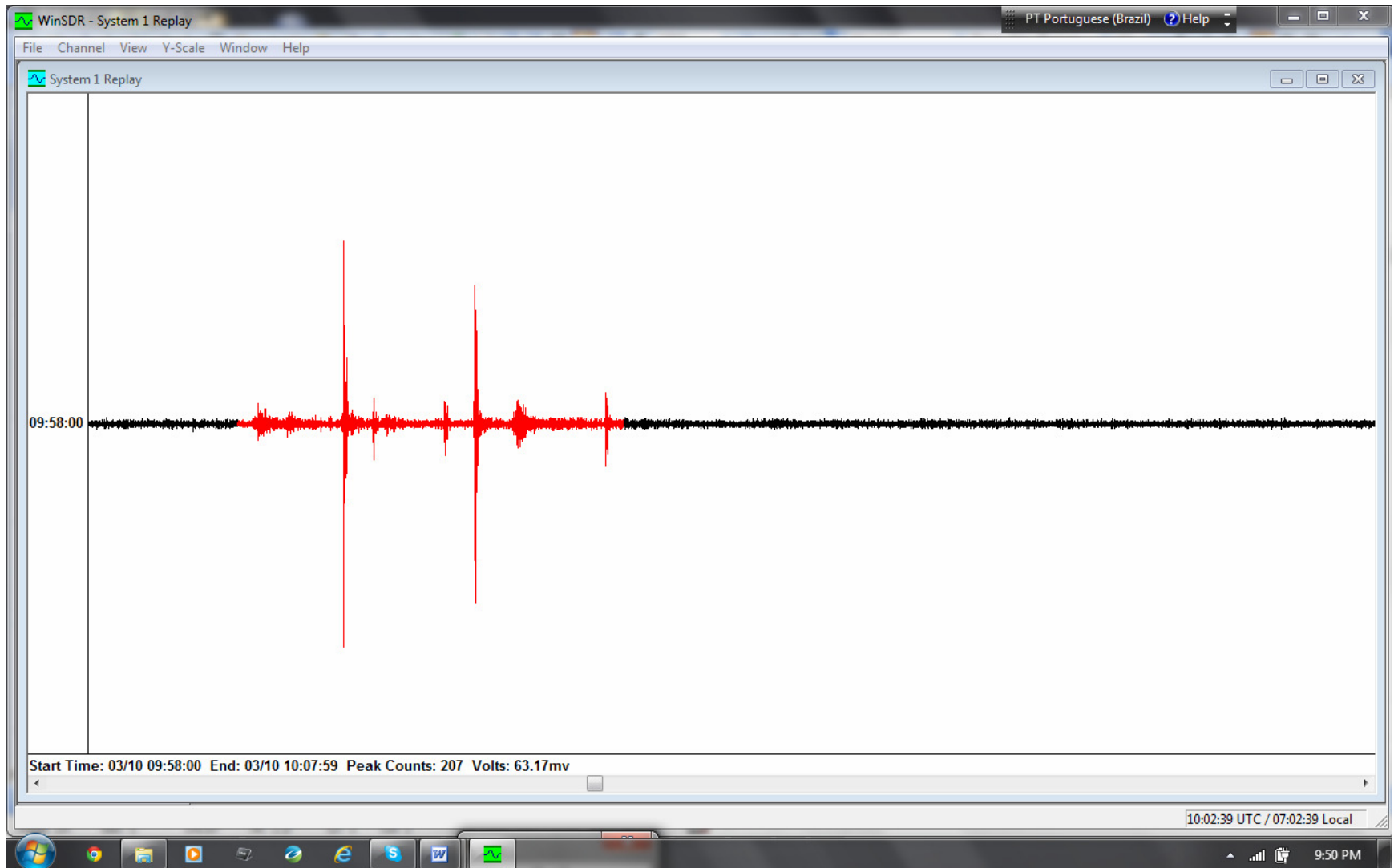
Evento 7

### Registro de SAML:

Start: 3/09/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:56.0 Y: 1.3m Max/Min: 2591/-3726 Peak: 1.269 m/sec View Peak: 1.269 m/sec  
Org: 10:04:18.0 P: 10:04:32.9 S: 10:04:43.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 7

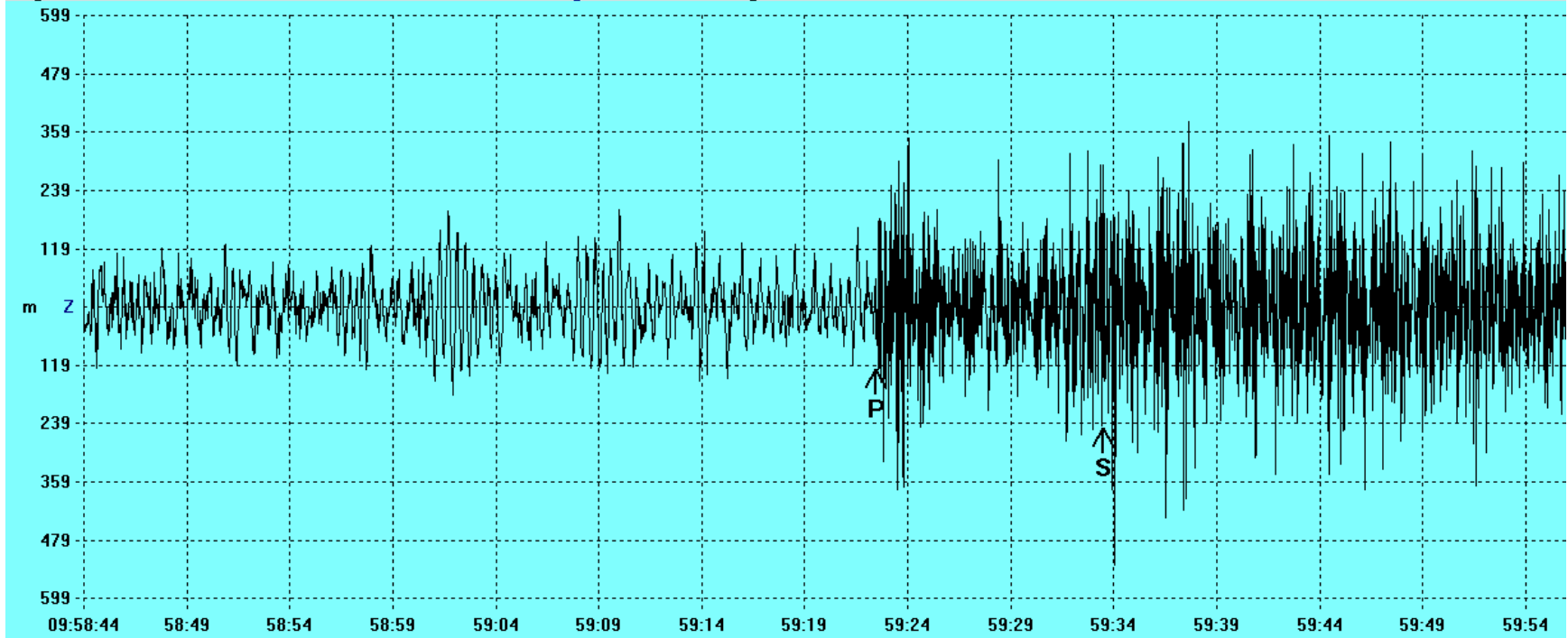


Evento 8



Registro de SAML:

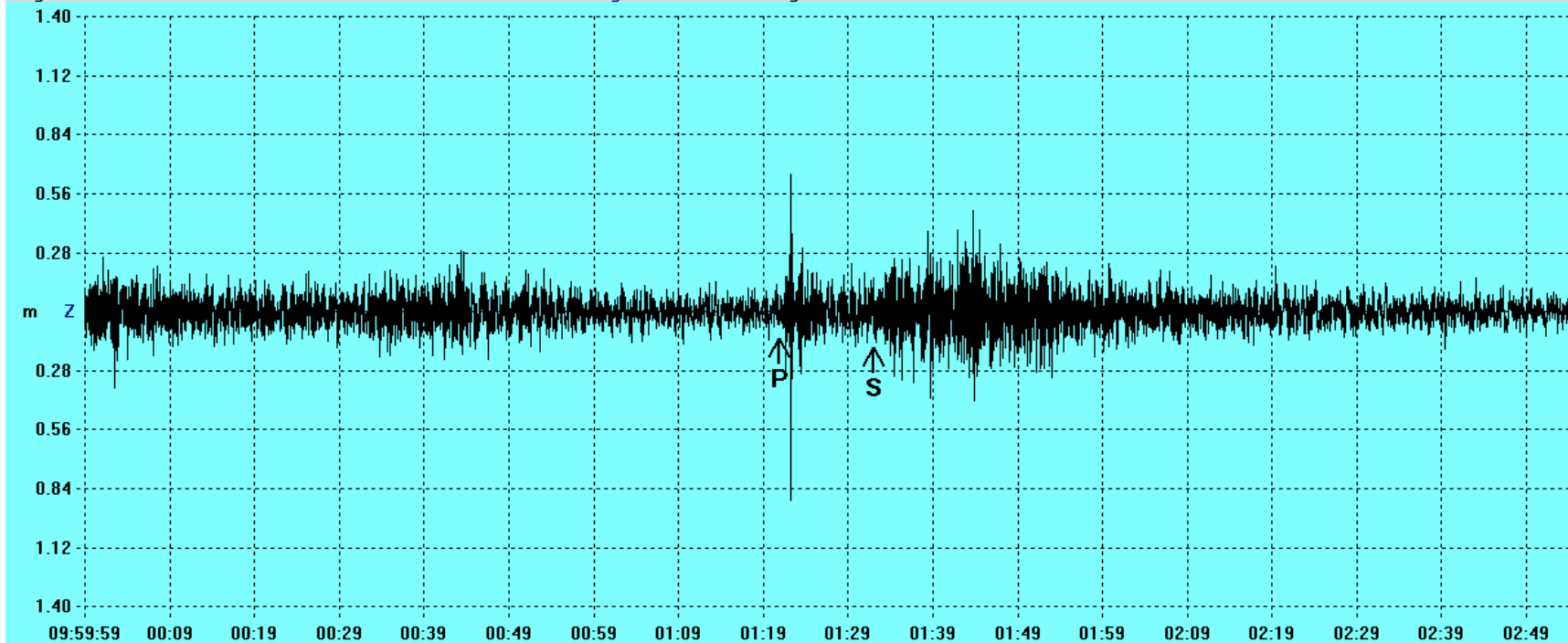
Start: 3/10/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1.12.0 Y: 600m Max/Min: 4054/-4247 Peak: 1.446 m/sec View Peak: 529.5 m/sec  
Org: 9:59:07.4 P: 9:59:22.4 S: 9:59:33.5 Diff: 11.1sec Dist: 0.783deg 87.0km 54.1mi Mag: MI?? JB: 33



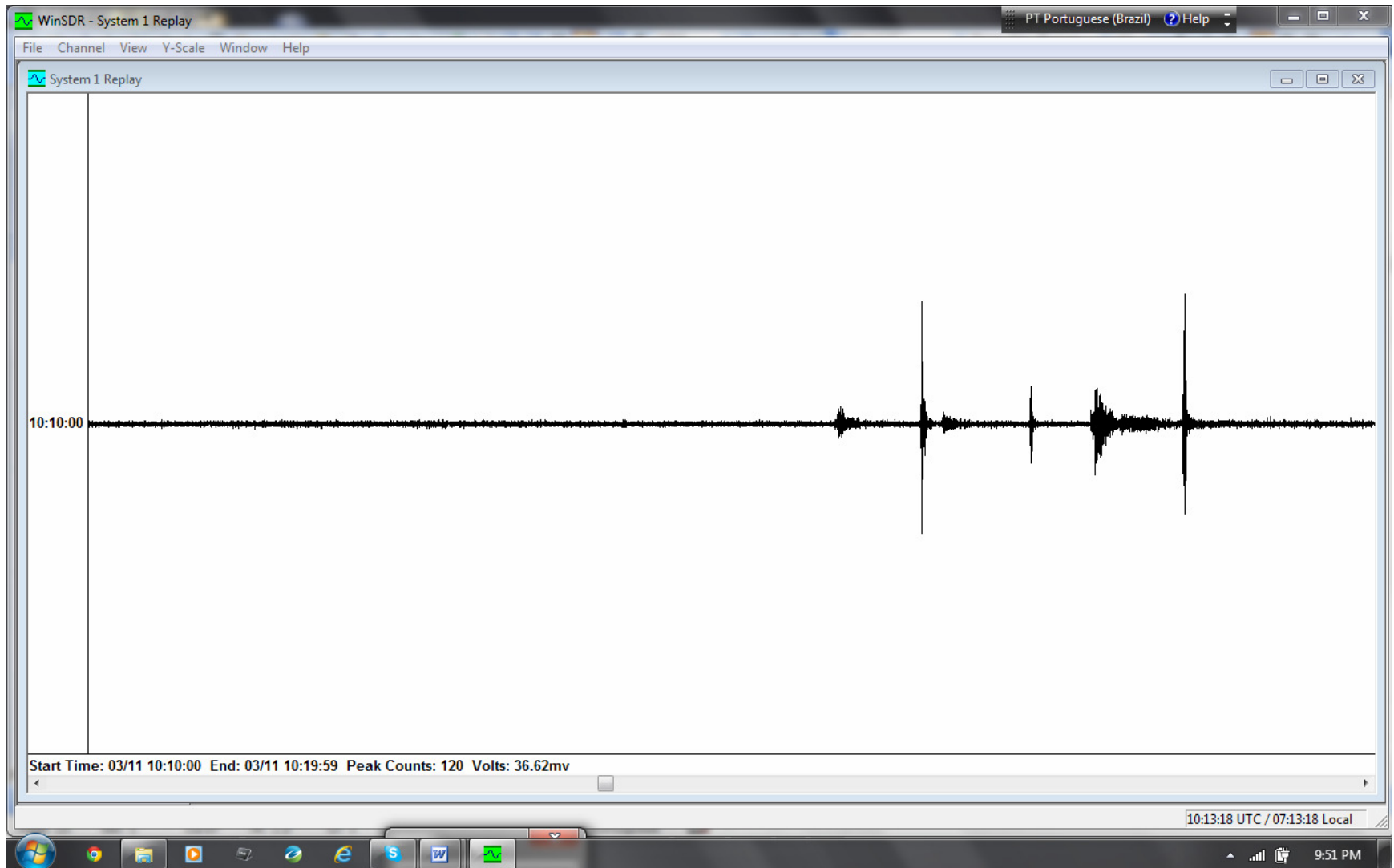
Evento 8

# Registro de SAML:

Start: 3/10/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 2:57.0 Y: 1.4m Max/Min: 4007/-3267 Peak: 1.365 m/sec View Peak: 897.3 m/sec  
Org: 10:01:05.9 P: 10:01:20.9 S: 10:01:32.0 Diff: 11.1sec Dist: 0.783deg 87.0km 54.1mi Mag: MI?? JB: 33



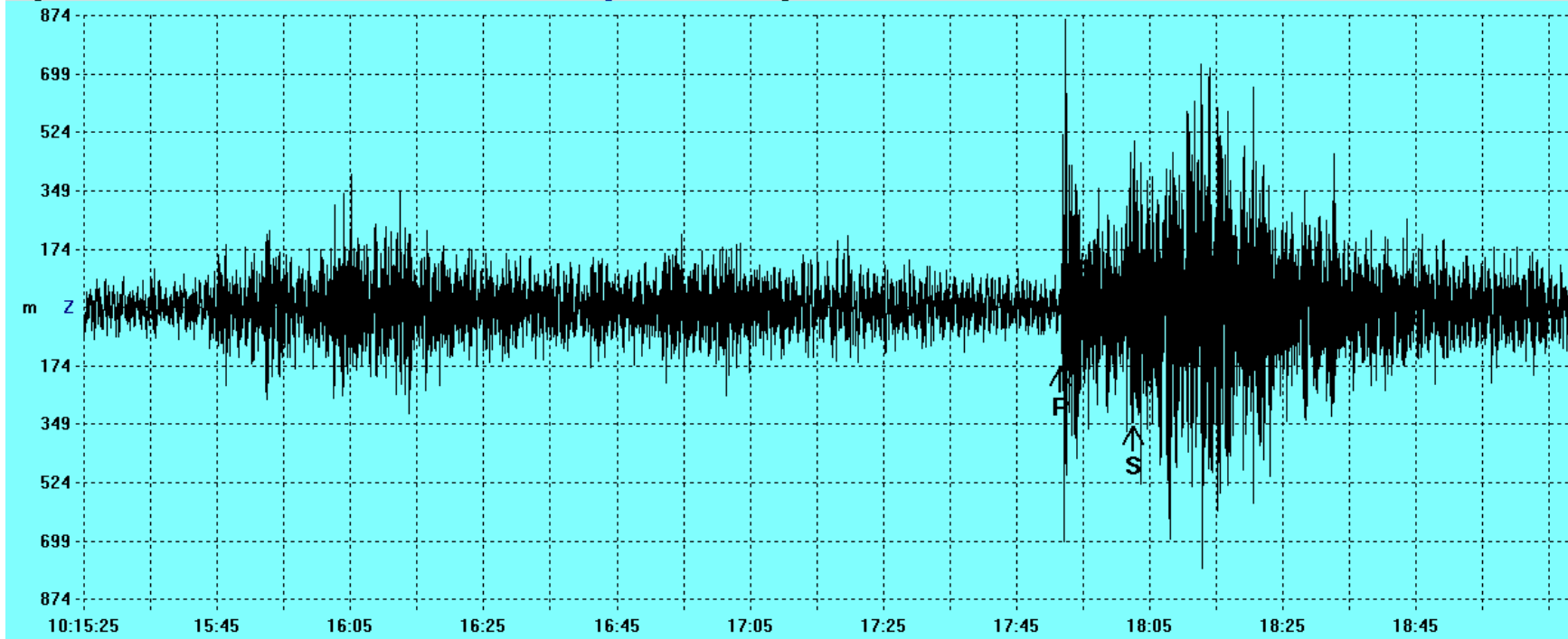
Evento 8



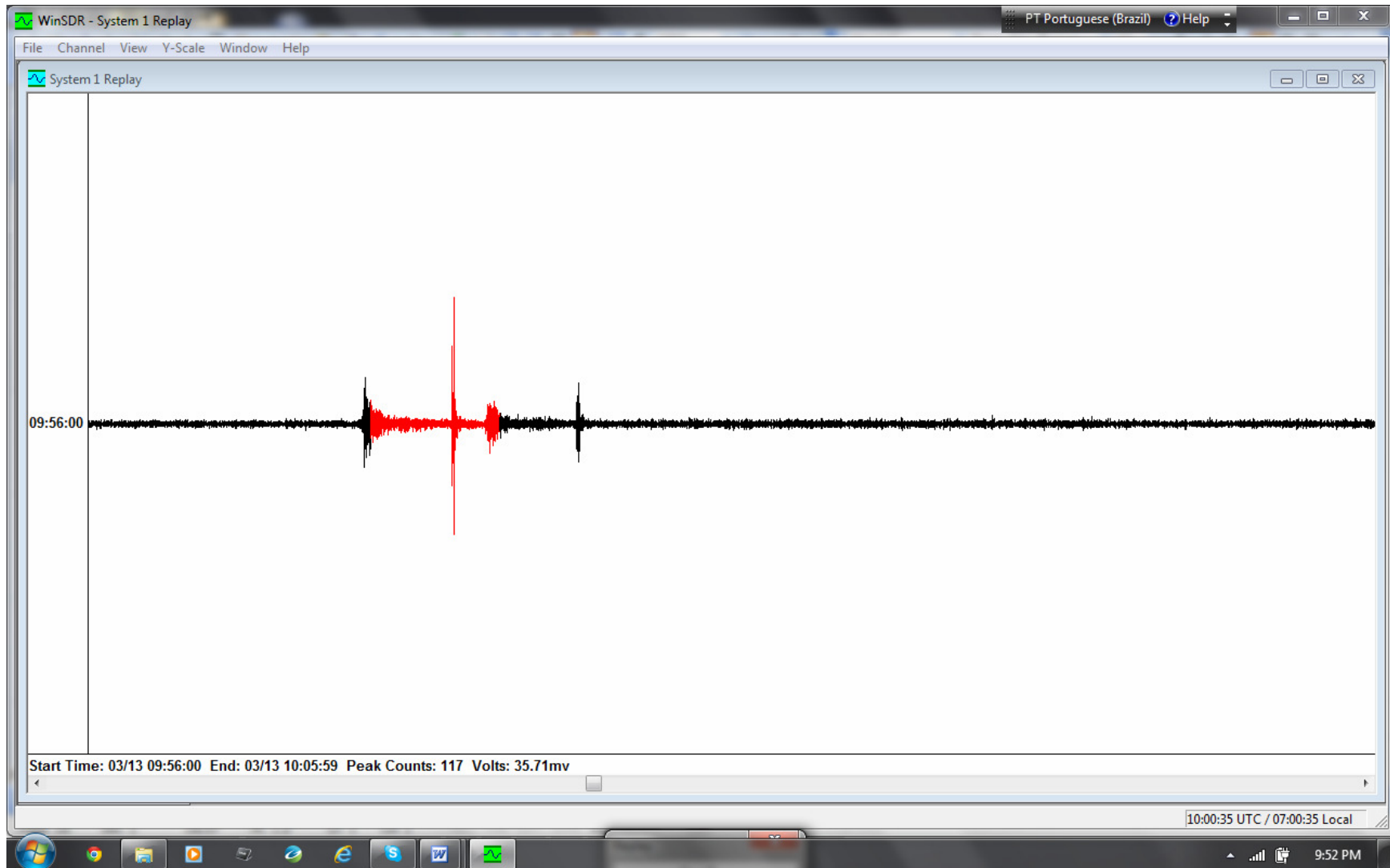
Evento 9

Registro de SAML:

Start: 3/11/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:43.0 Y: 875m Max/Min: 2533/-2288 Peak: 862.5 m/sec View Peak: 862.5 m/sec  
Org: 10:17:36.9 P: 10:17:51.6 S: 10:18:02.5 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



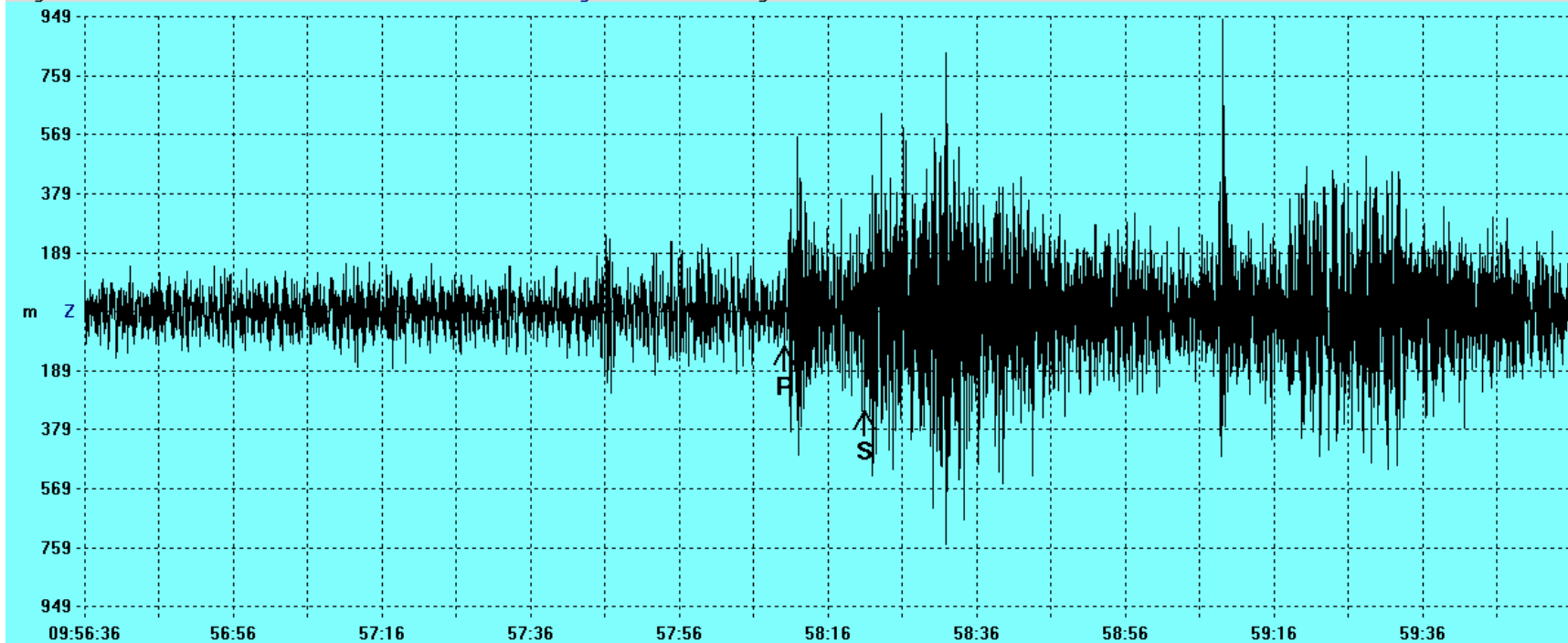
Evento 9



Evento 10

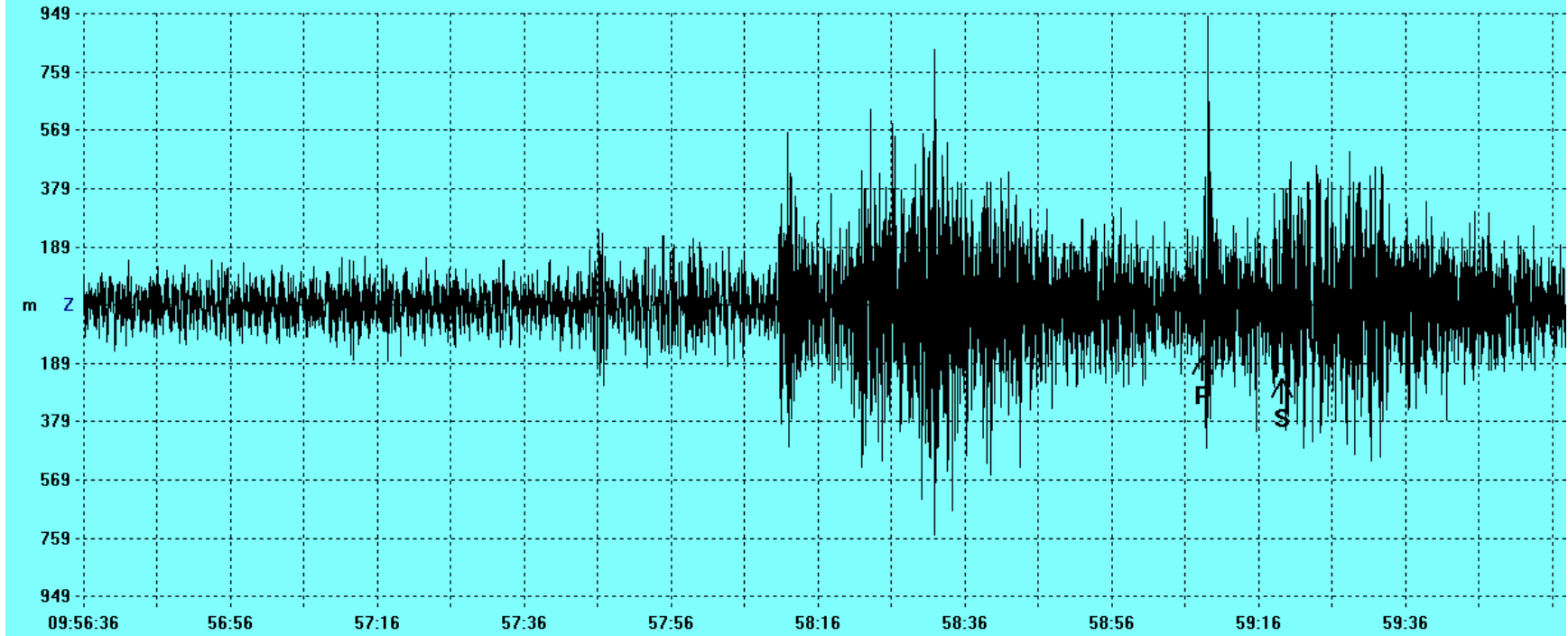
# Registro de SAML:

Start: 3/13/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:22.0 Y: 950m Max/Min: 2763/-2198 Peak: 940.9 m/sec View Peak: 940.9 m/sec  
Org: 9:57:55.5 P: 9:58:10.1 S: 9:58:20.9 Diff: 10.8sec Dist: 0.750deg 83.4km 51.8mi Mag: MI?? JB: 33

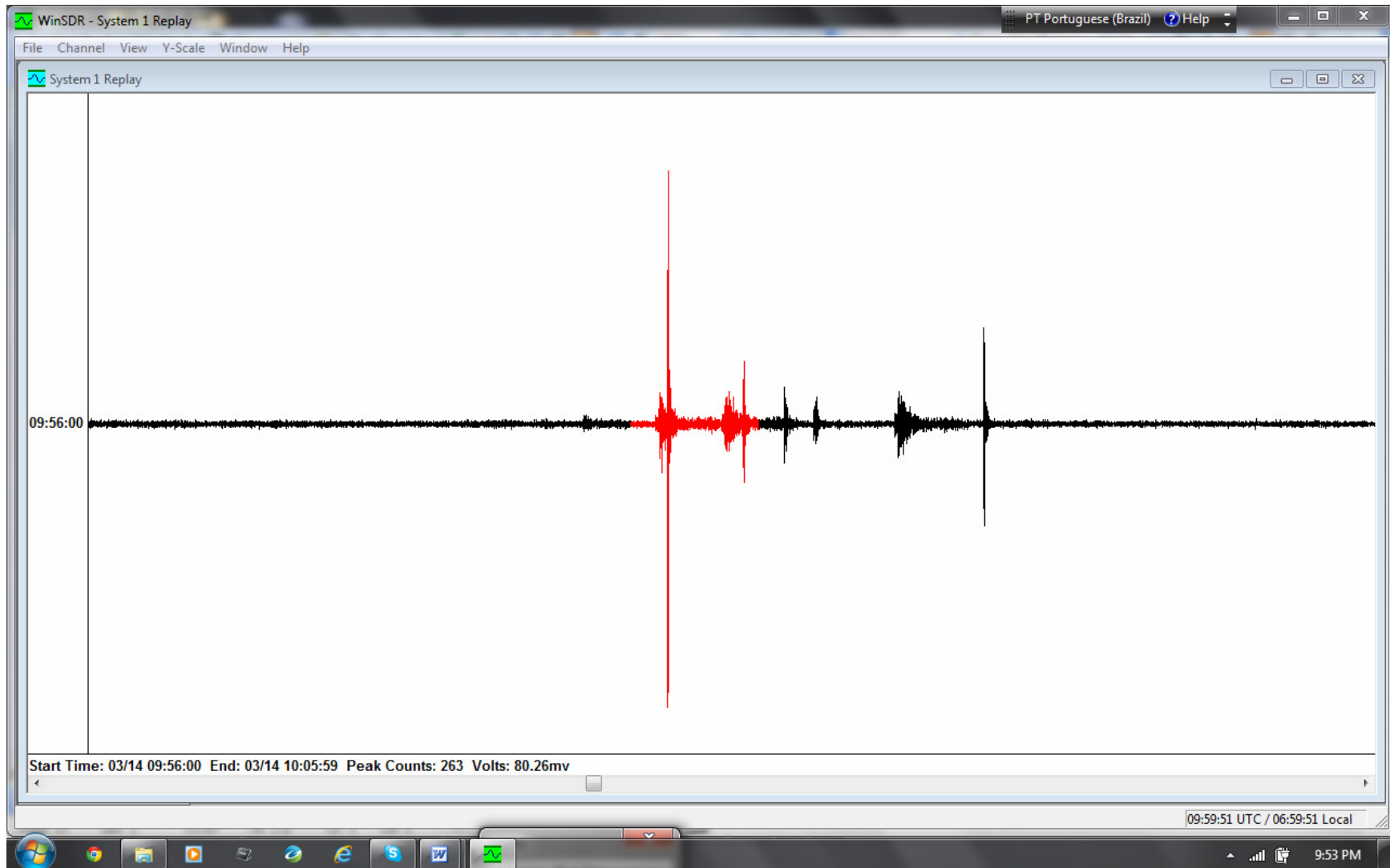


Evento 10

Start: 3/13/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:22.0 Y: 950m Max/Min: 2763/-2198 Peak: 940.9 m/sec View Peak: 940.9 m/sec  
Org: 9:58:53.8 P: 9:59:08.4 S: 9:59:19.2 Diff: 10.8sec Dist: 0.750deg 83.4km 51.8mi Mag: MI?? JB: 33



Evento 10

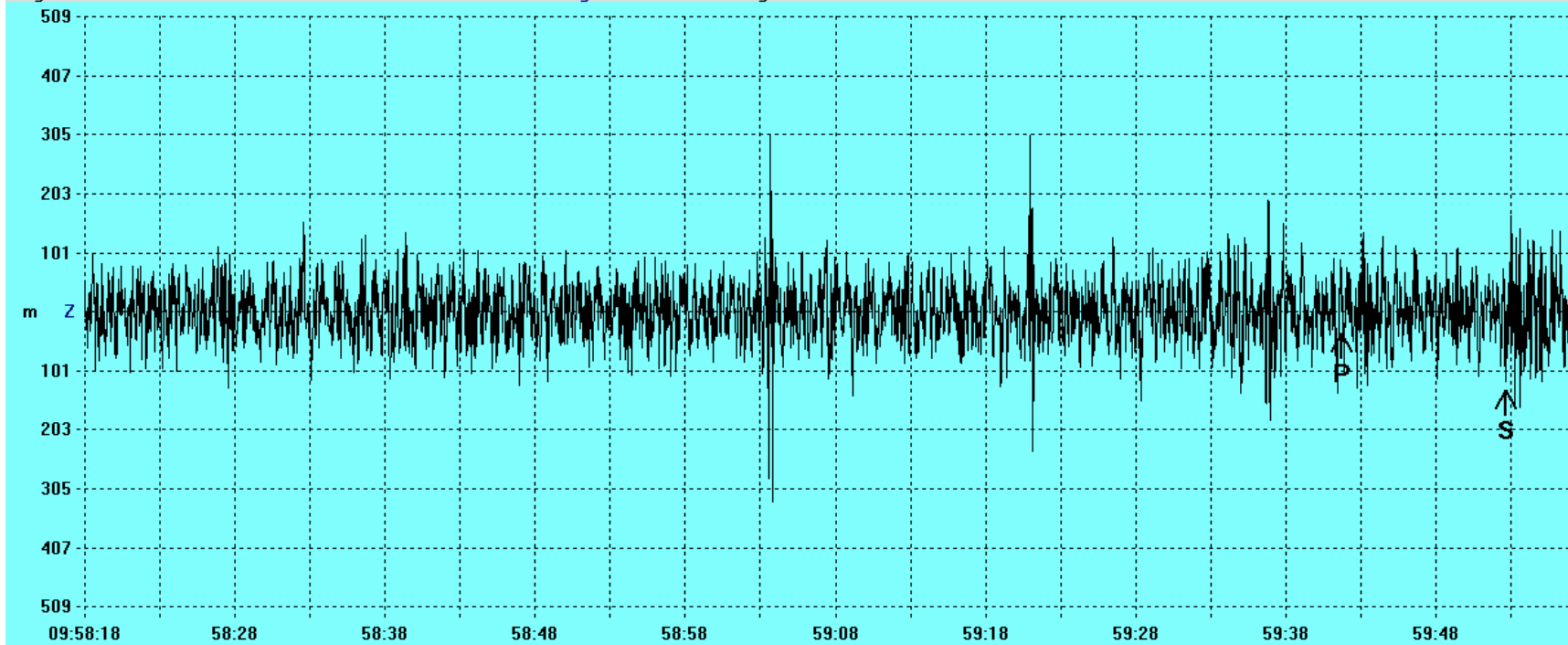


Evento 11



### Registro de SAML:

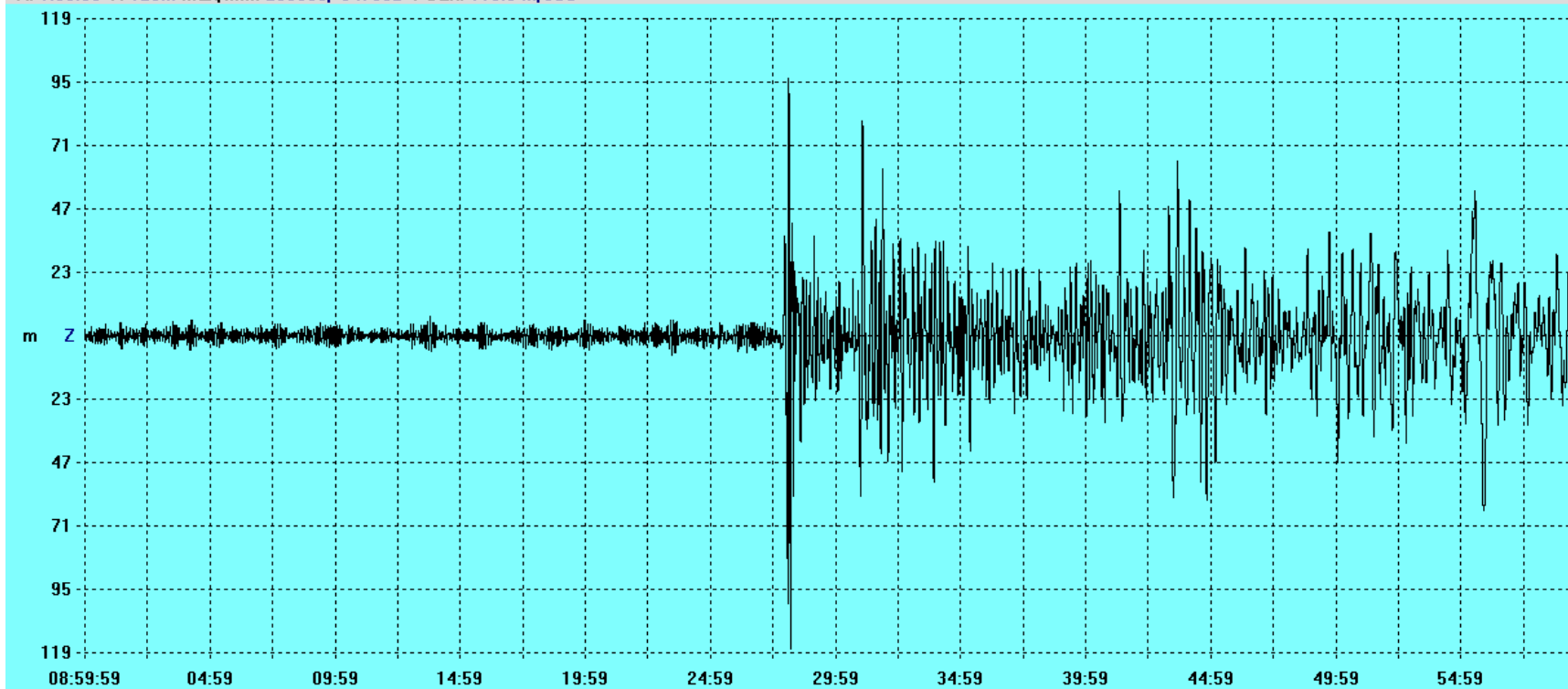
Start: 3/14/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:40.0 Y: 510m Max/Min: 12440/-14701 Peak: 5.006 m/sec View Peak: 327.4 m/sec  
Org: 9:59:26.8 P: 9:59:41.7 S: 9:59:52.7 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 11

Registro de SAML não filtrado – registro mostra um telessismo:

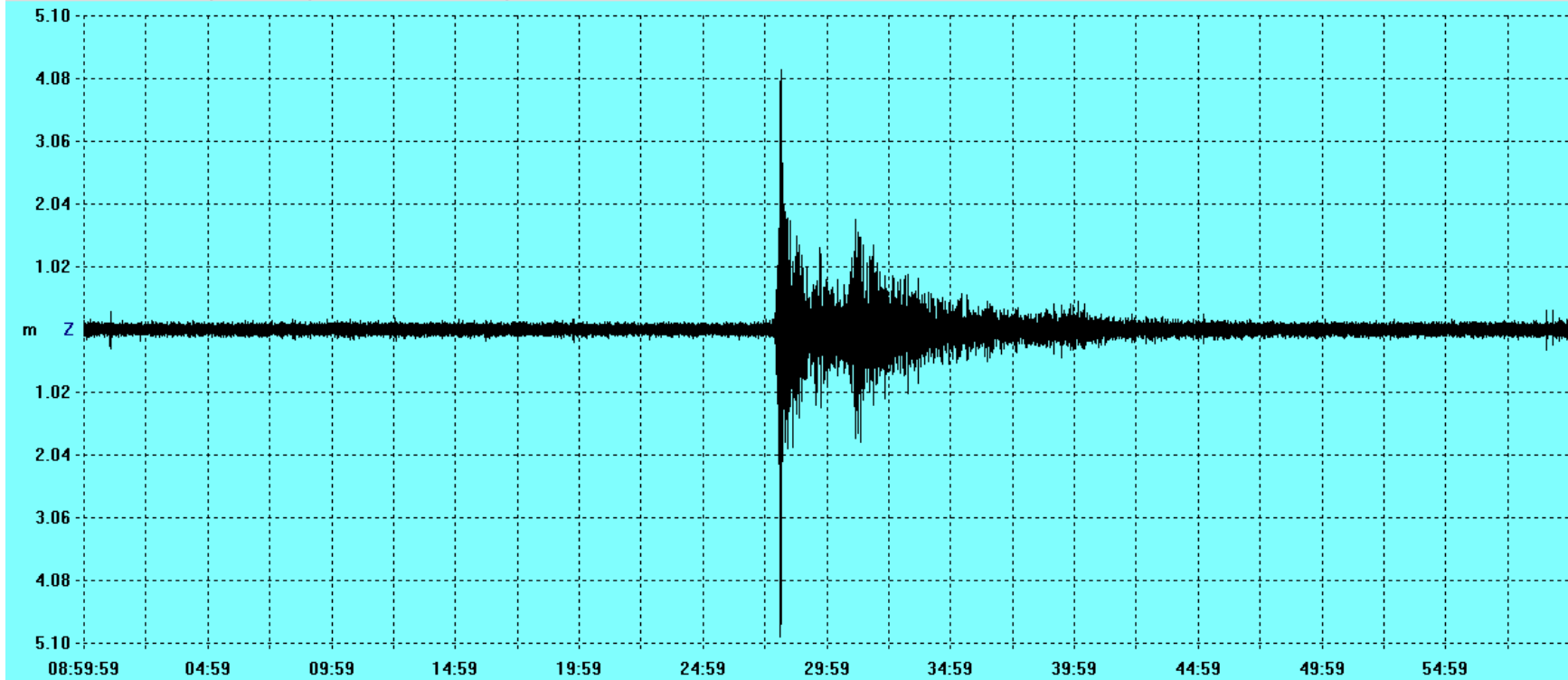
Start: 3/14/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00:00 Y: 120m Max/Min: 286059/-347502 Peak: 118.3 m/sec



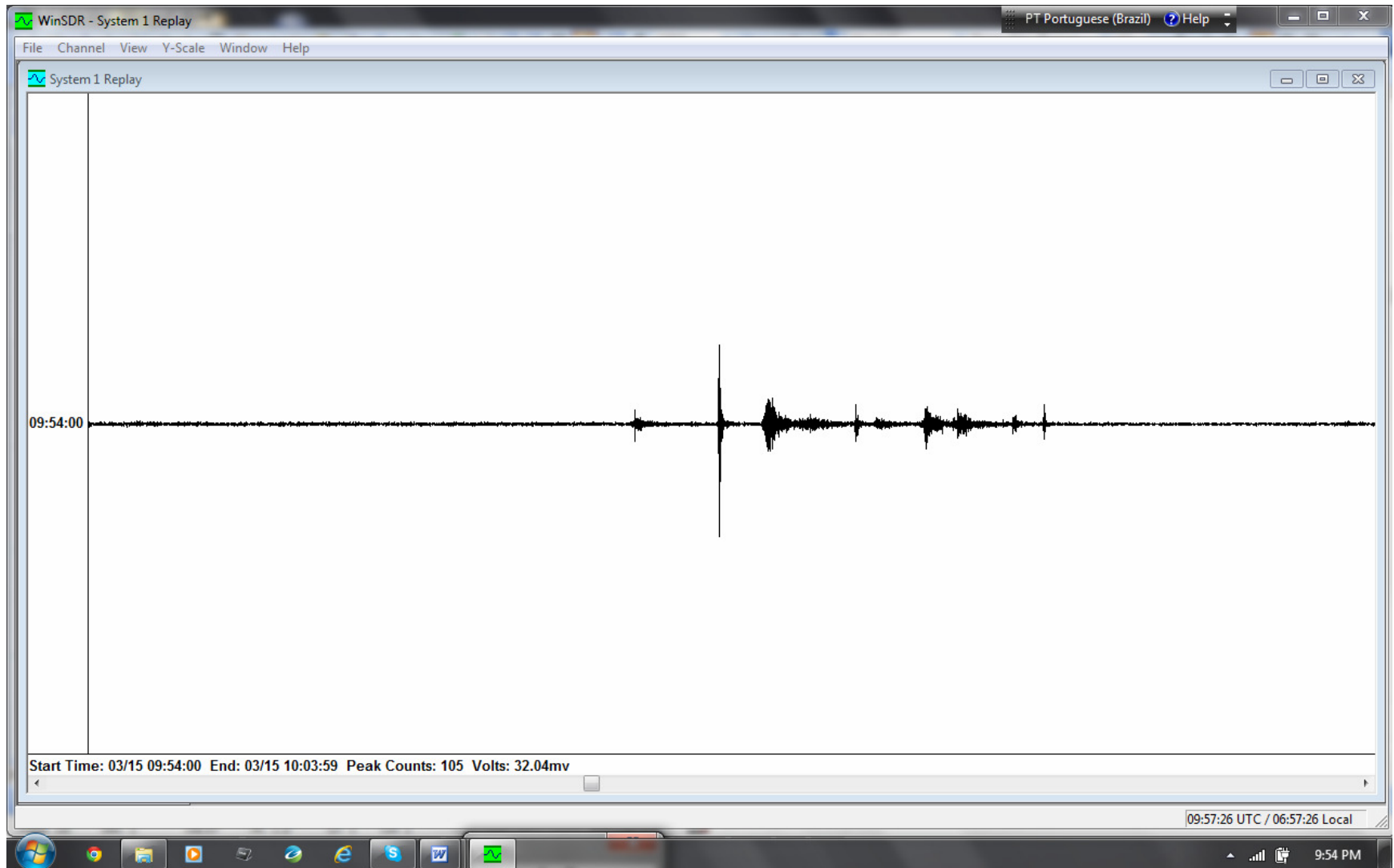
Sismograma de SAML filtrado usando-se o filtro high-pass (acima de 1.0 Hz):

Start: 3/14/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 5.1m Max/Min: 12440/-14701 Peak: 5.006 m/sec



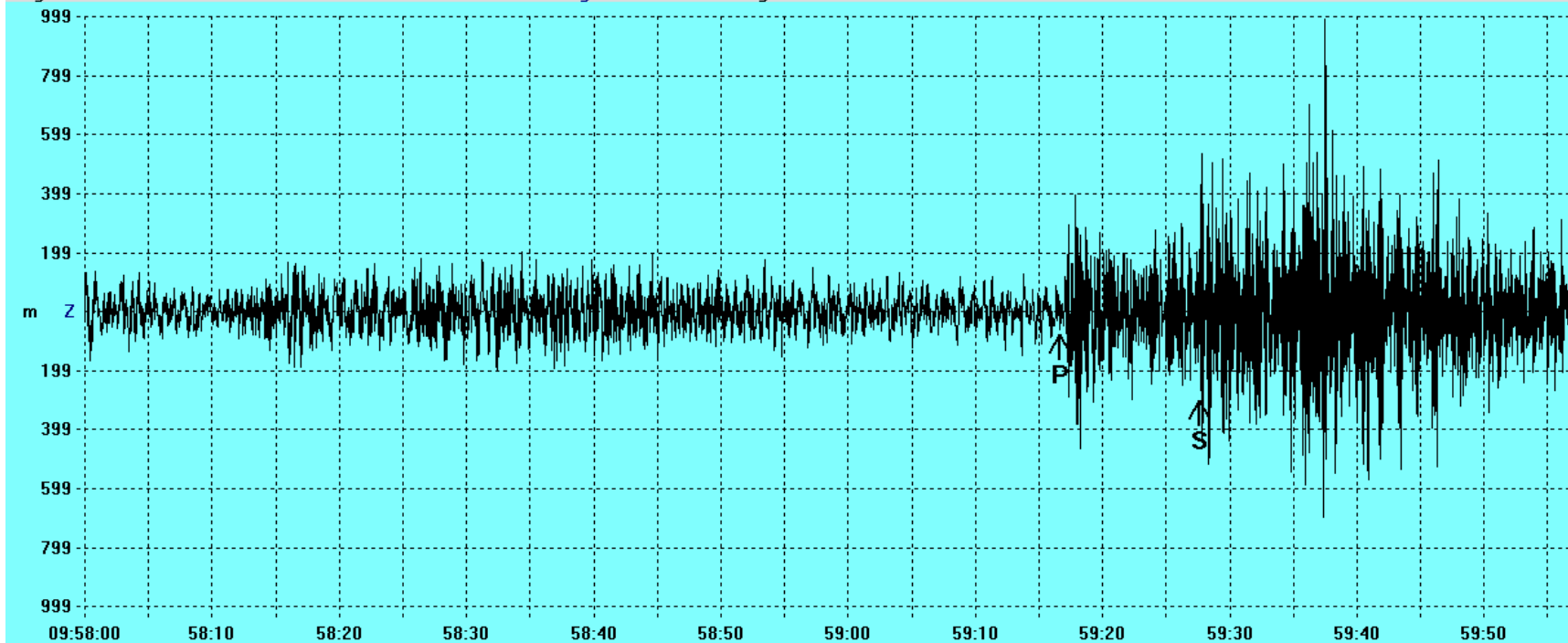
Telessismo – dados epicentrais: PDE-Q 2012 03 14 090835.14 40.89 144.94 12 6.9 MwWCMT 4FM .....



Evento 12

# Registro de SAML:

Start: 3/15/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:58.0 Y: 1000m Max/Min: 2901/-2041 Peak: 988.1 m/sec View Peak: 988.1 m/sec  
Org: 9:59:01.7 P: 9:59:16.6 S: 9:59:27.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



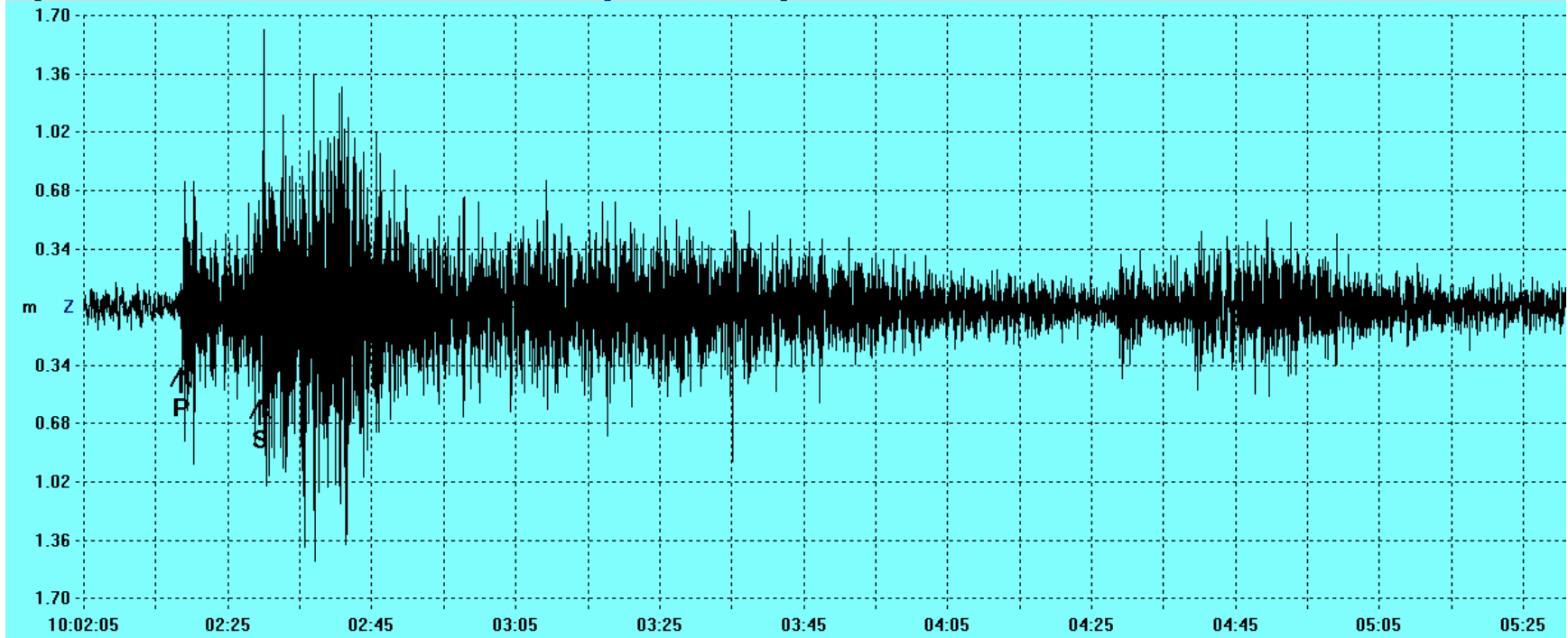
Evento 12



Evento 13

### Registro de SAML:

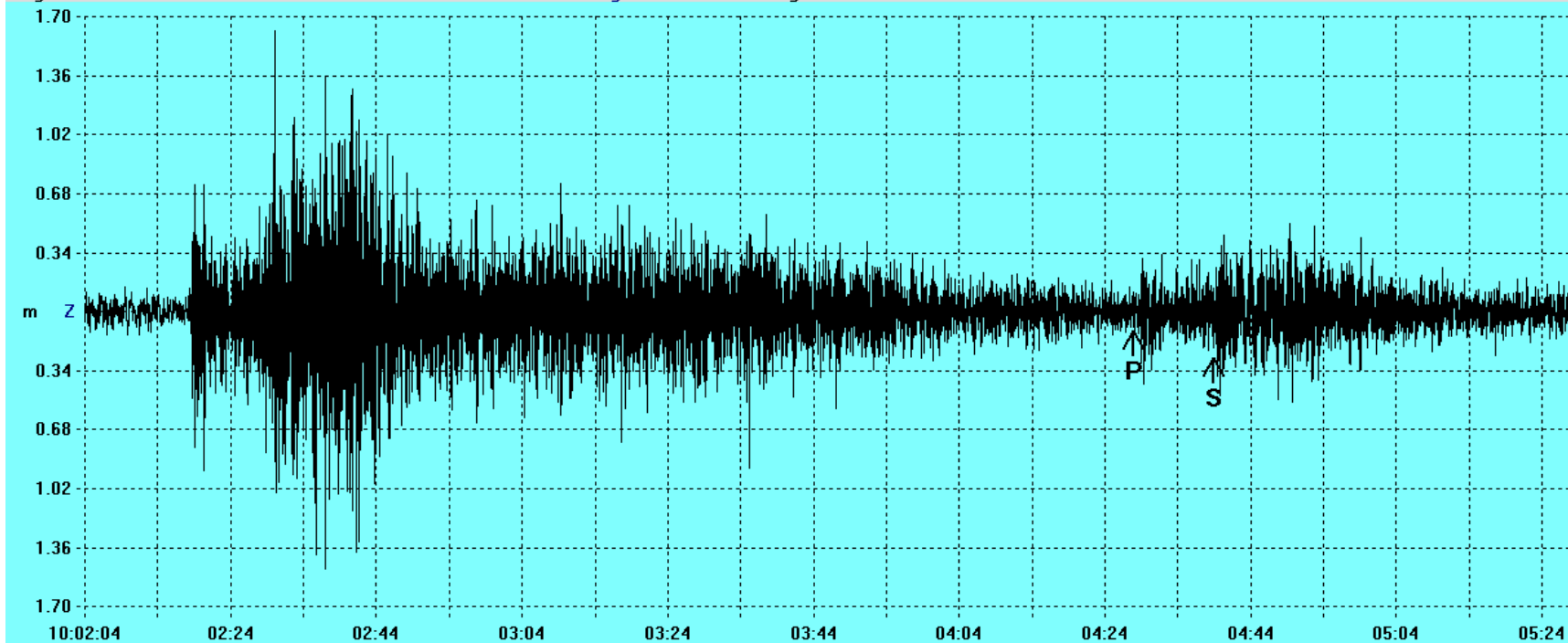
Start: 3/16/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:26.0 Y: 1.7m Max/Min: 4741/-4346 Peak: 1.614 m/sec View Peak: 1.614 m/sec  
Org: 10:02:03.6 P: 10:02:18.5 S: 10:02:29.5 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 13

Registro de SAML:

Start: 3/16/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 3:26.0 Y: 1.7m Max/Min: 4741/-4346 Peak: 1.614 m/sec View Peak: 1.614 m/sec  
Org: 10:04:13.0 P: 10:04:27.9 S: 10:04:38.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 13



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

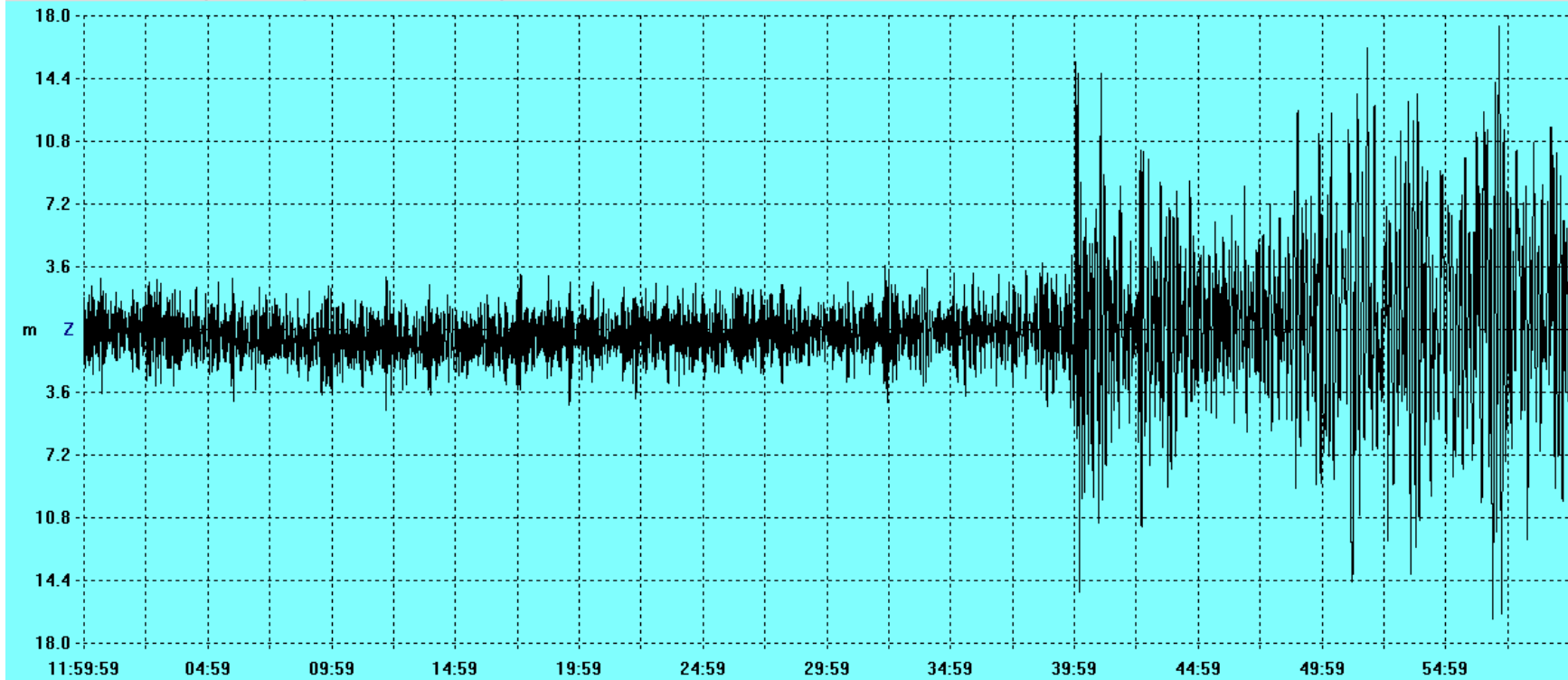
**Março  
2012**

**Registros da Estação SAML**

O sismograma a seguir não foi filtrado:

Start: 3/03/12 11:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 18m Max/Min: 51178/-48674 Peak: 17.43 m/sec

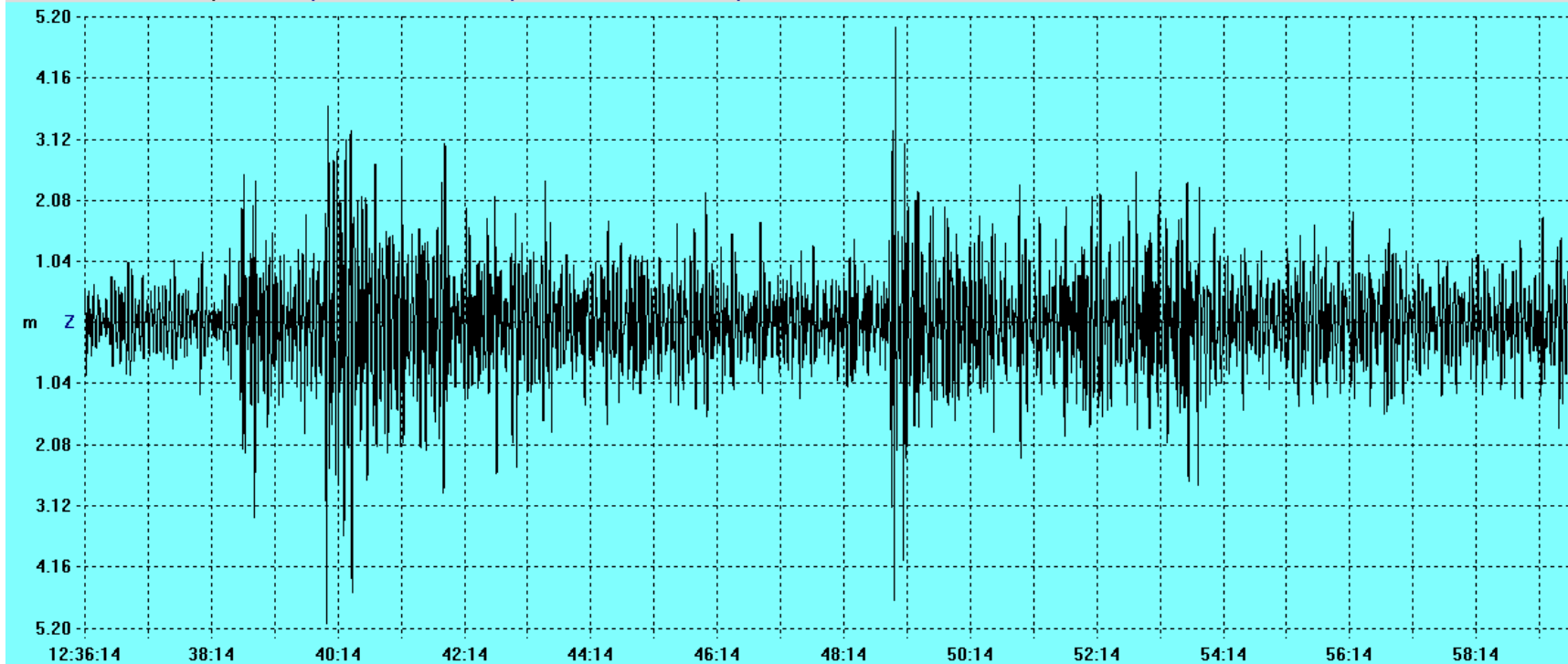


PDE-Q 2012 03 03 121955.09 -22.14 170.34 14 6.6 MwWCMT ..M .....

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 3/03/12 11:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

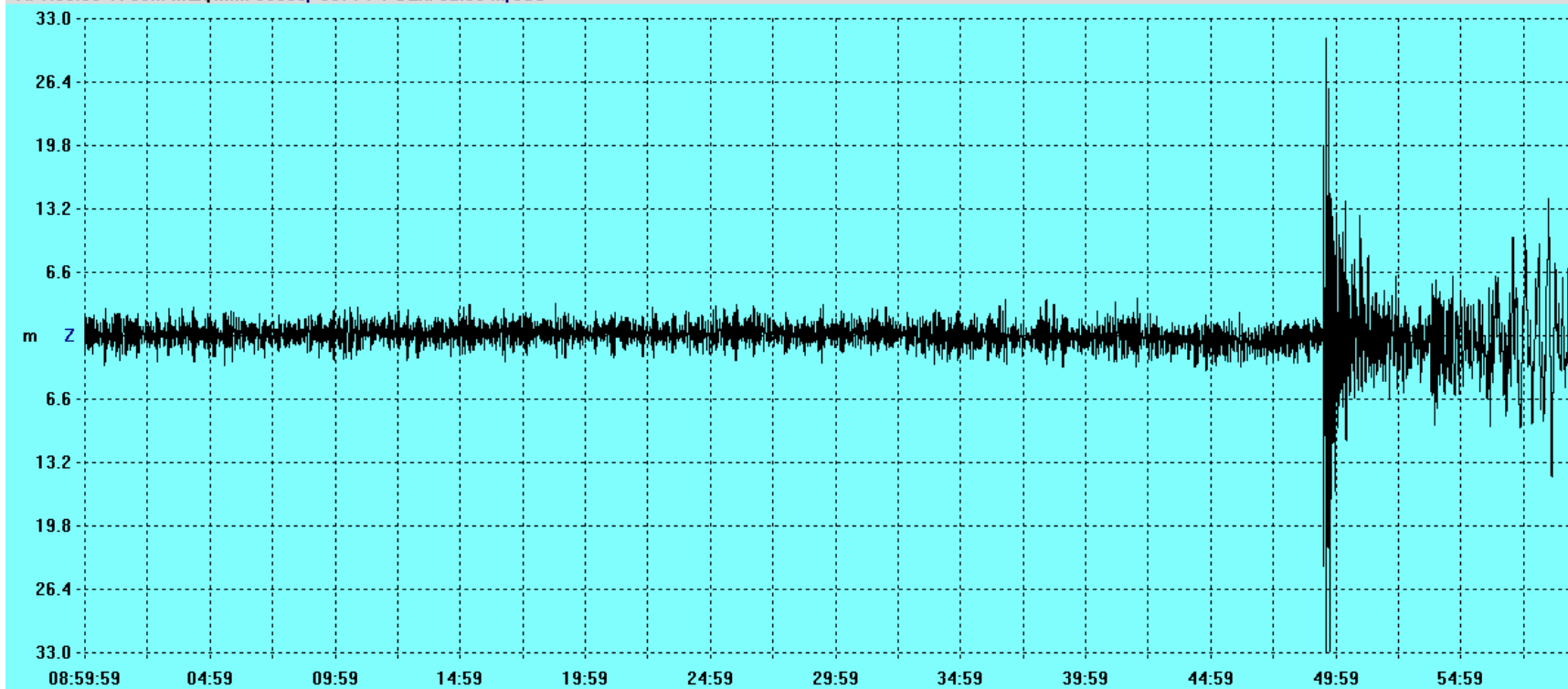
X: 23:44.0 Y: 5.2m Max/Min: 14739/-15026 Peak: 5.116 m/sec View Peak: 5.116 m/sec



PDE-Q 2012 03 03 121955.09 -22.14 170.34 14 6.6 MwWCMT ..M .....

O sismograma a seguir não foi filtrado:

Start: 3/04/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00:00 Y: 33m Max/Min: 90968/-96714 Peak: 32.93 m/sec

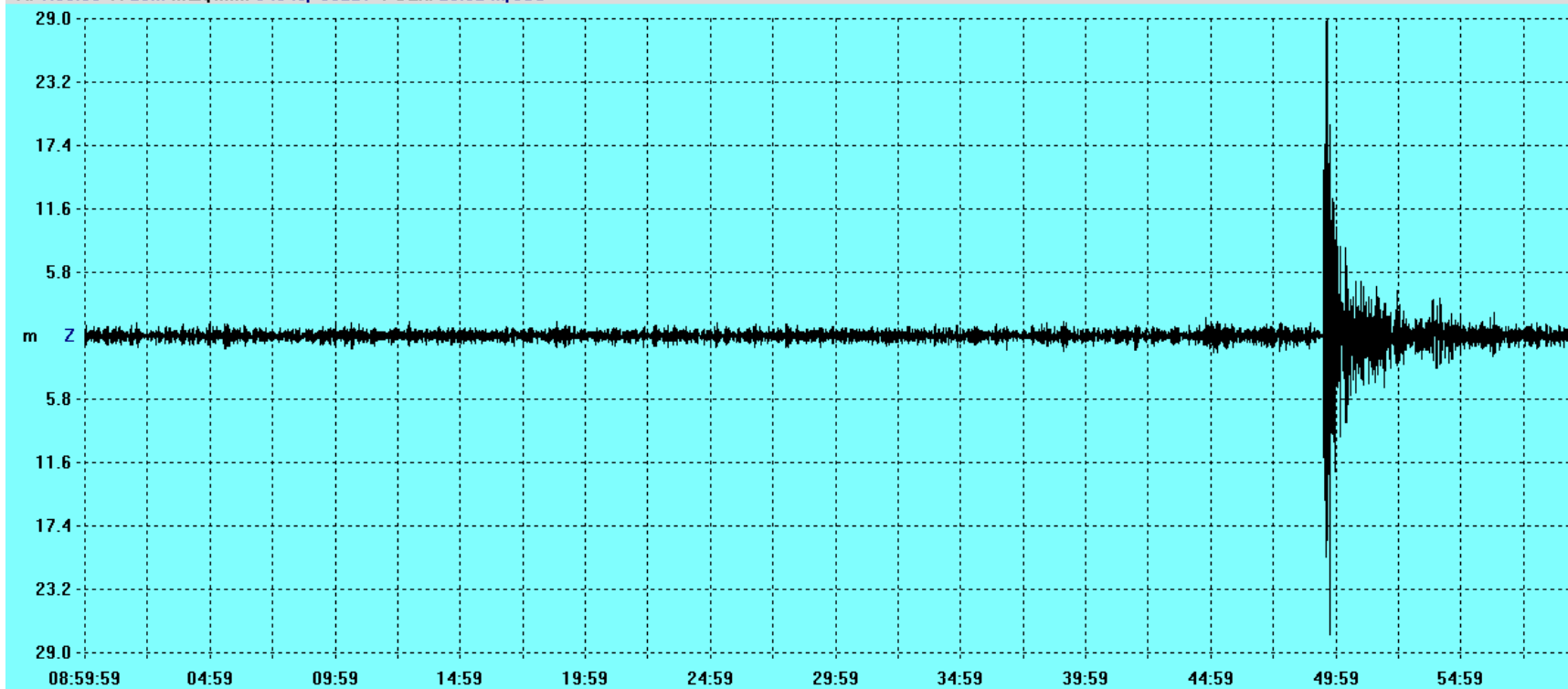


PDE-Q 2012 03 04 094414.60 2.69 -84.34 9 5.5 MwGS ..M .....

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 3/04/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

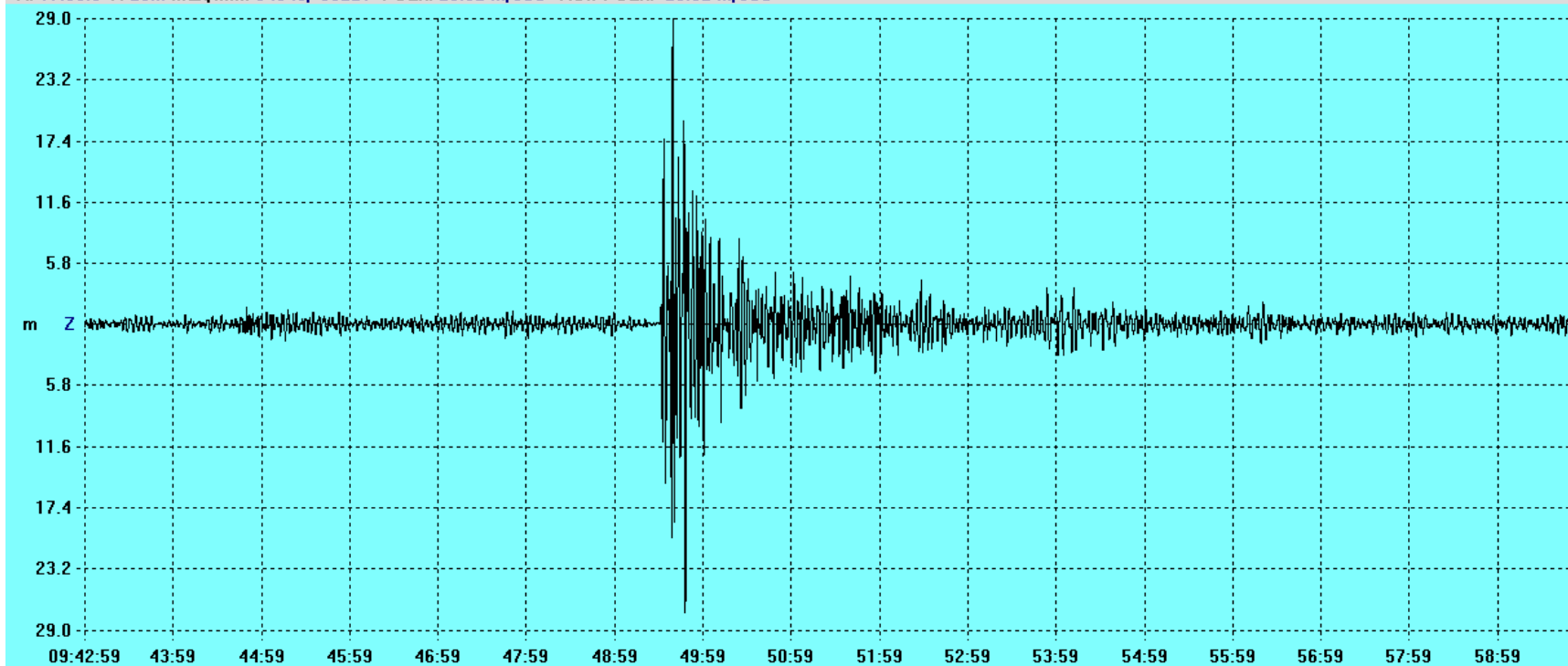
X: 1:00:00 Y: 29m Max/Min: 84945/-80221 Peak: 28.92 m/sec



PDE-Q 2012 03 04 094414.60 2.69 -84.34 9 5.5 MwGS ..M .....

Detalhe do sismograma acima:

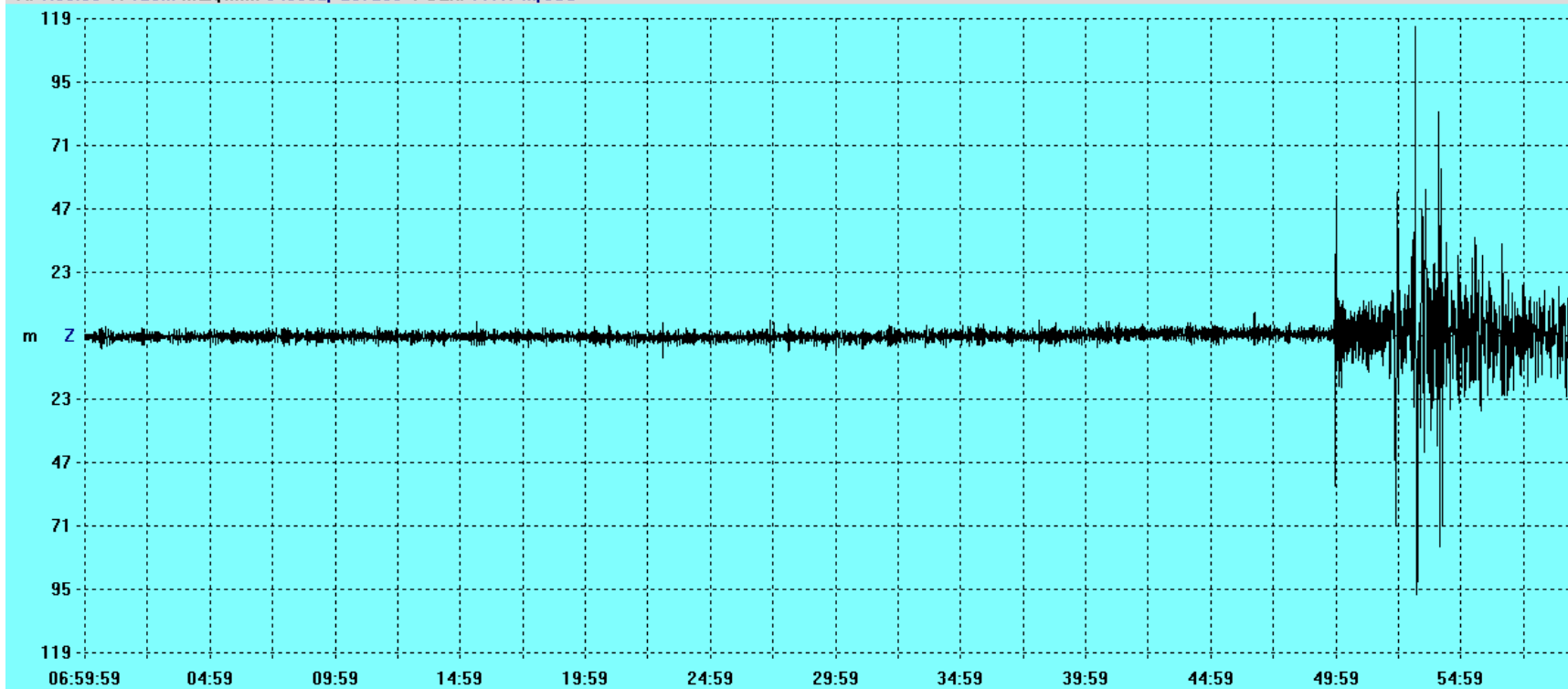
Start: 3/04/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 17:00.0 Y: 29m Max/Min: 84945/-80221 Peak: 28.92 m/sec View Peak: 28.92 m/sec



PDE-Q 2012 03 04 094414.60 2.69 -84.34 9 5.5 MwGS ..M .....

O sismograma a seguir não foi filtrado:

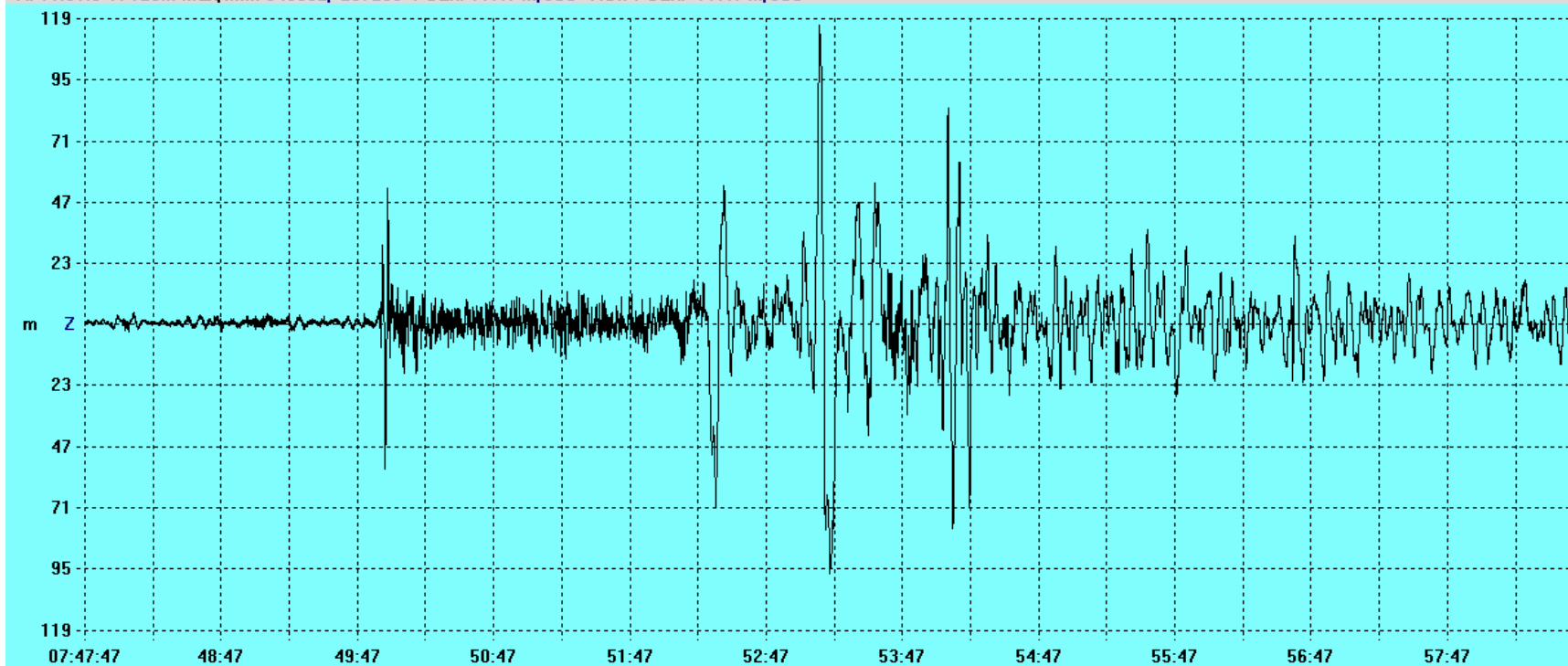
Start: 3/05/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00:00 Y: 120m Max/Min: 343952/-287265 Peak: 117.1 m/sec



PDE-Q 2012 03 05 074609.92 -28.25 -63.30 551 6.1 MwWCMT ..M .....

Detalhes do sismograma acima:

Start: 3/05/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 11:01.0 Y: 120m Max/Min: 343952/-287265 Peak: 117.1 m/sec View Peak: 117.1 m/sec



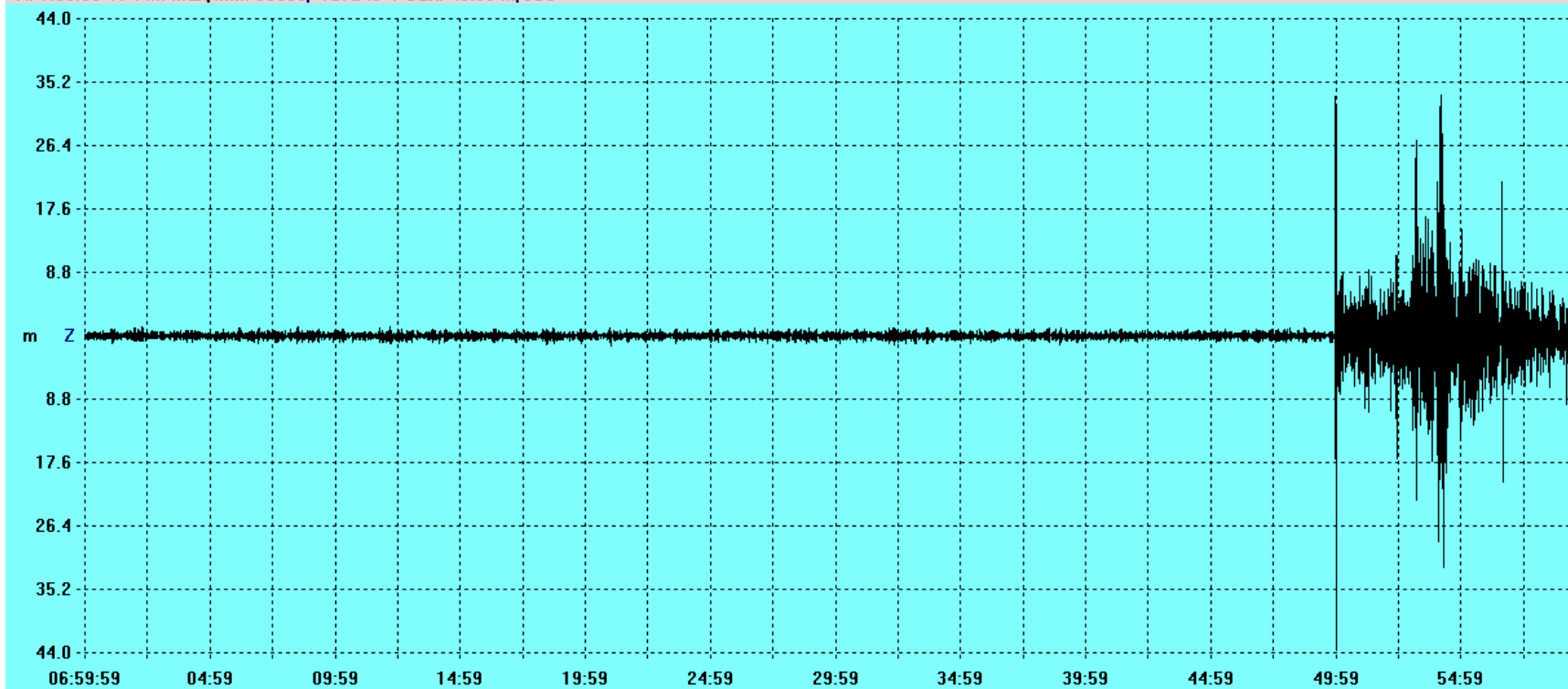
PDE-Q 2012 03 05 074609.92 -28.25 -63.30 551 6.1 MwWCMT ..M .....



Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 3/05/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

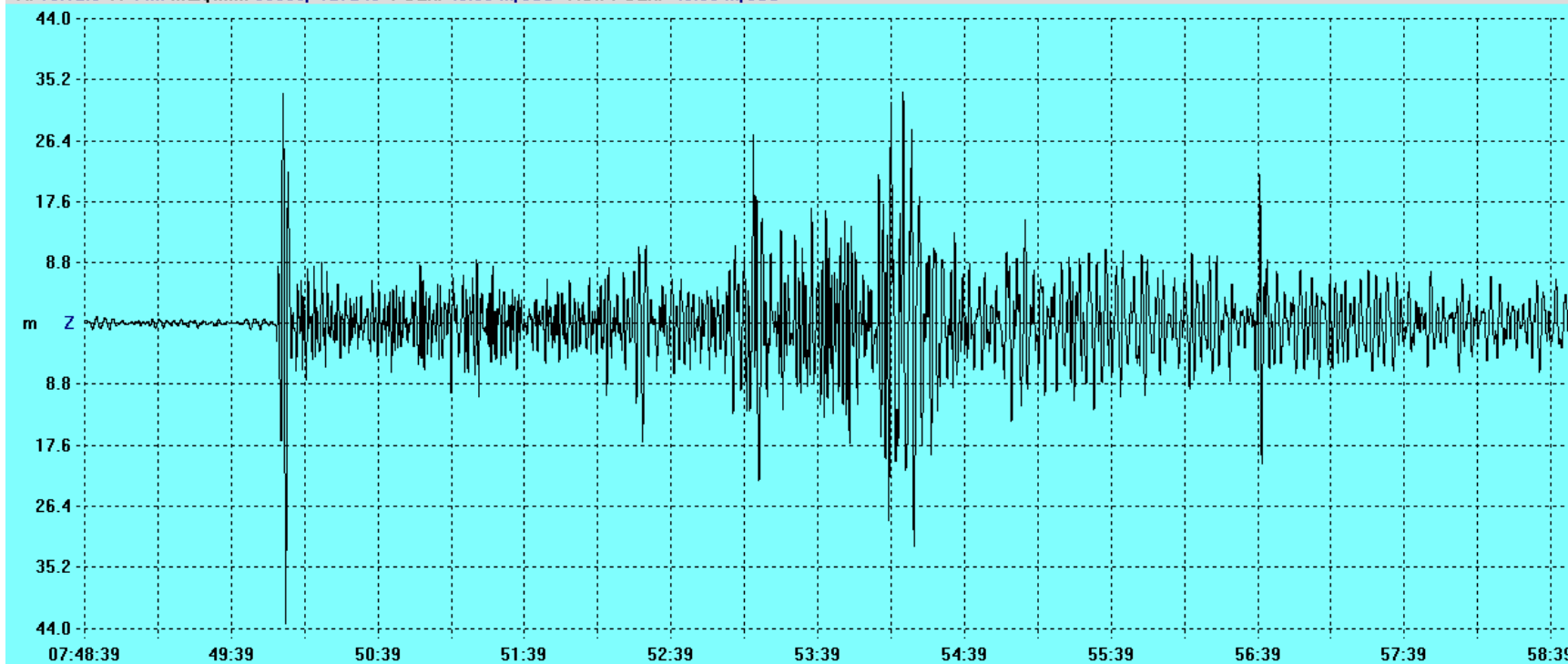
X: 1:00:00 Y: 44m Max/Min: 98066/-127246 Peak: 43.33 m/sec



PDE-Q 2012 03 05 074609.92 -28.25 -63.30 551 6.1 MwWCMT ..M .....

Detalhes do sismograma acima:

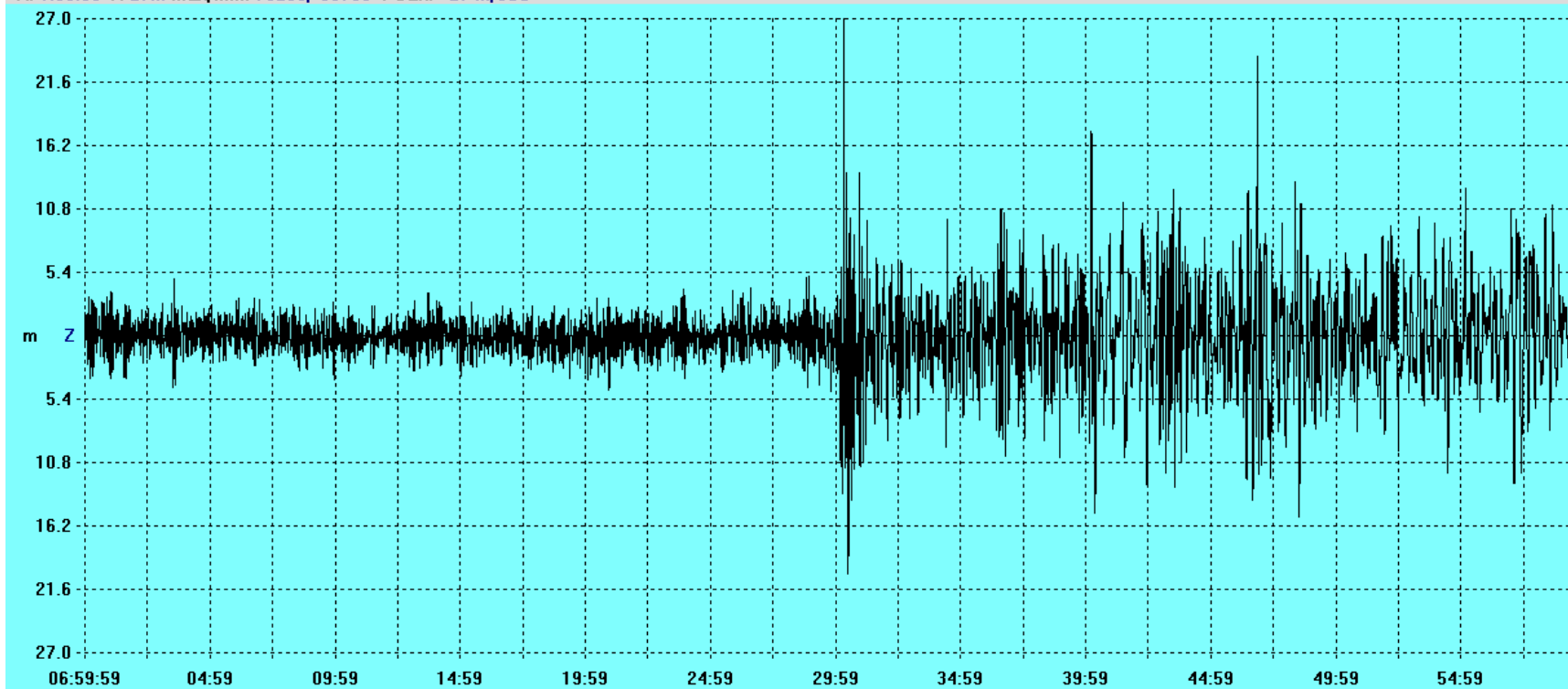
Start: 3/05/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 10:12.0 Y: 44m Max/Min: 98066/-127246 Peak: 43.33 m/sec View Peak: 43.33 m/sec



PDE-Q 2012 03 05 074609.92 -28.25 -63.30 551 6.1 MwWCMT ..M .....

O sismograma a seguir não foi filtrado:

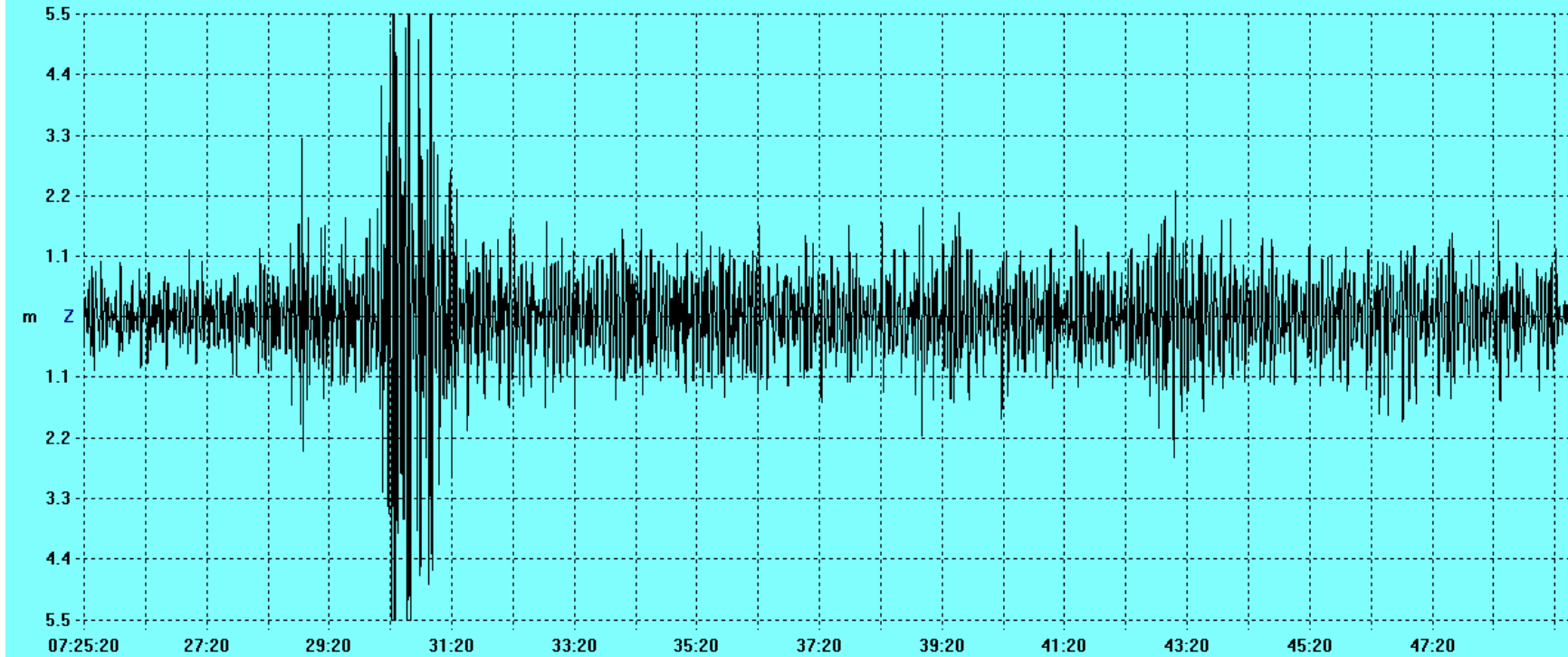
Start: 3/09/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00:00 Y: 27m Max/Min: 79283/-59708 Peak: 27 m/sec



PDE-Q 2012 03 09 070950.95 -19.12 169.61 16 6.7 MwWCMT .FM .....

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 3/09/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 24:16.0 Y: 5.5m Max/Min: 32134/-25186 Peak: 10.94 m/sec View Peak: 10.94 m/sec

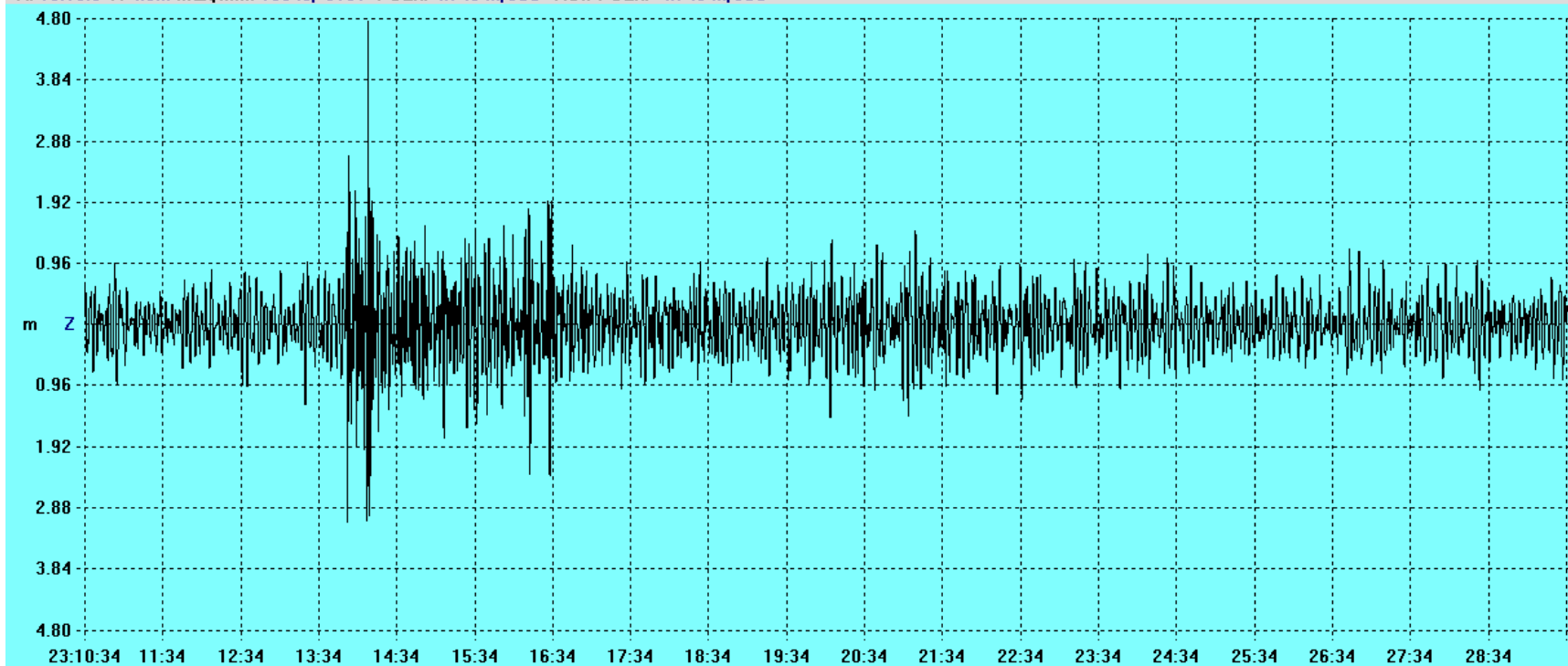


PDE-Q 2012 03 09 070950.95 -19.12 169.61 16 6.7 MwWCMT .FM .....

O sismograma a seguir foi filtrado usando-se um filtro band-pass (entre 0.3 e 1.0 Hz):

Start: 3/13/12 22:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

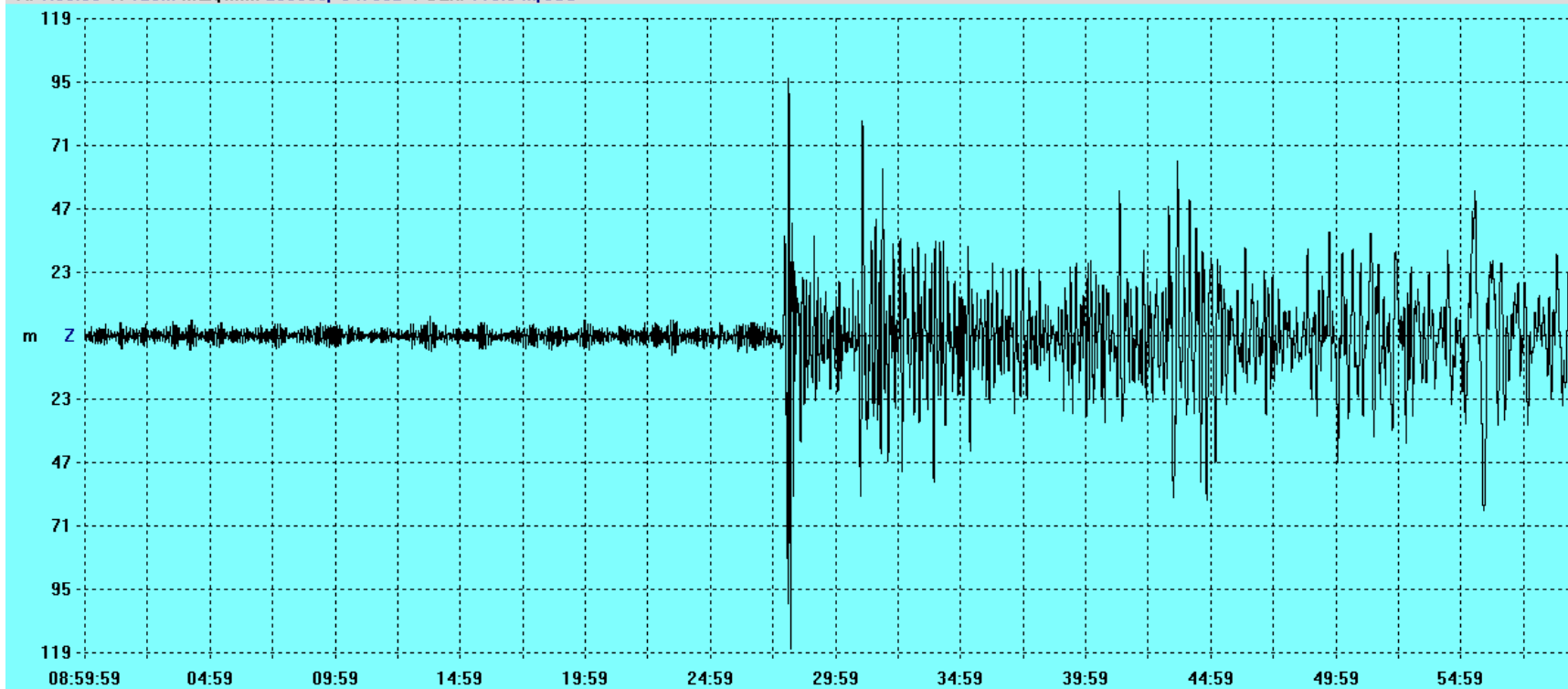
X: 19:15.0 Y: 4.8m Max/Min: 13946/-9101 Peak: 4.749 m/sec View Peak: 4.749 m/sec



PDE-Q 2012 03 13 230644.29 15.00 -92.89 56 5.5 MwGS 5FM .....

O sismograma a seguir não foi filtrado:

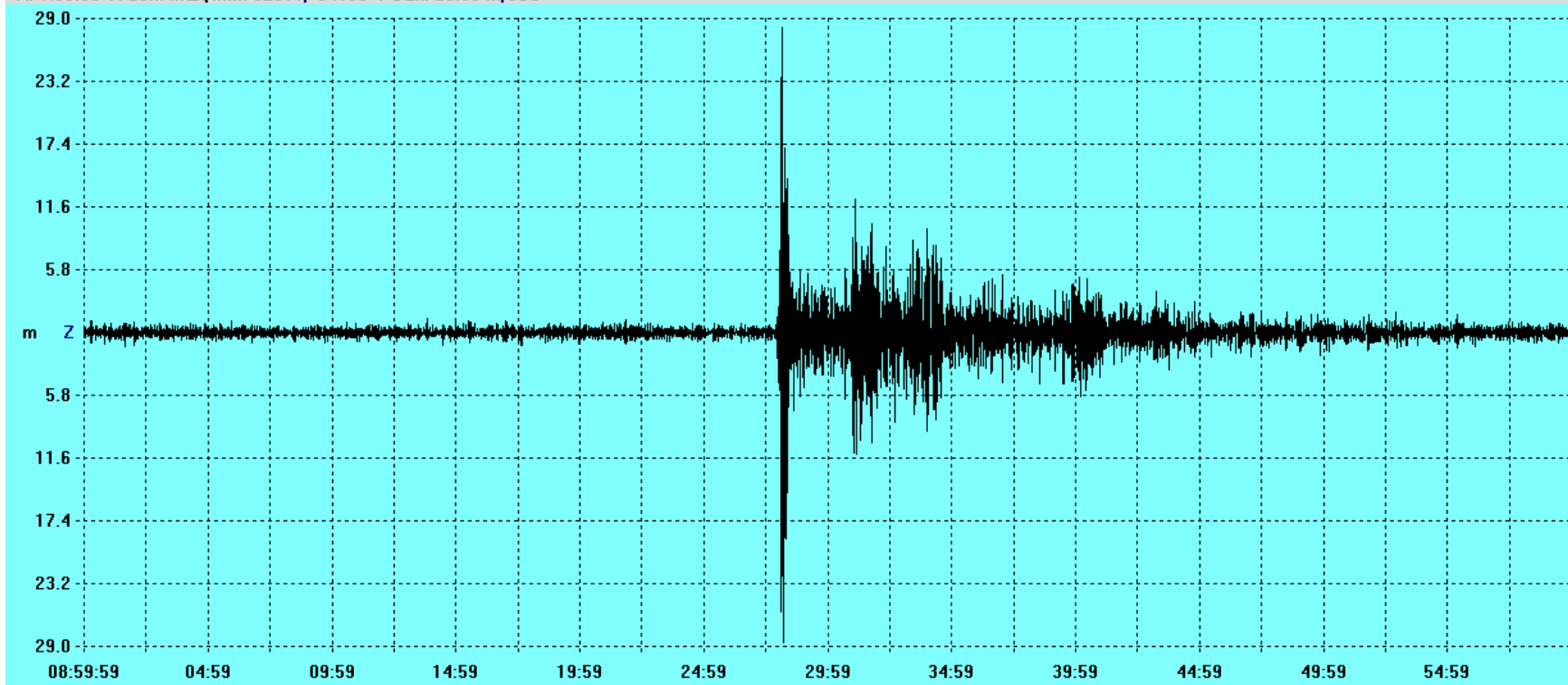
Start: 3/14/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00:00 Y: 120m Max/Min: 286059/-347502 Peak: 118.3 m/sec



PDE-Q 2012 03 14 090835.14 40.89 144.94 12 6.9 MwWCMT 4FM .....

Versão filtrada (filtro band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

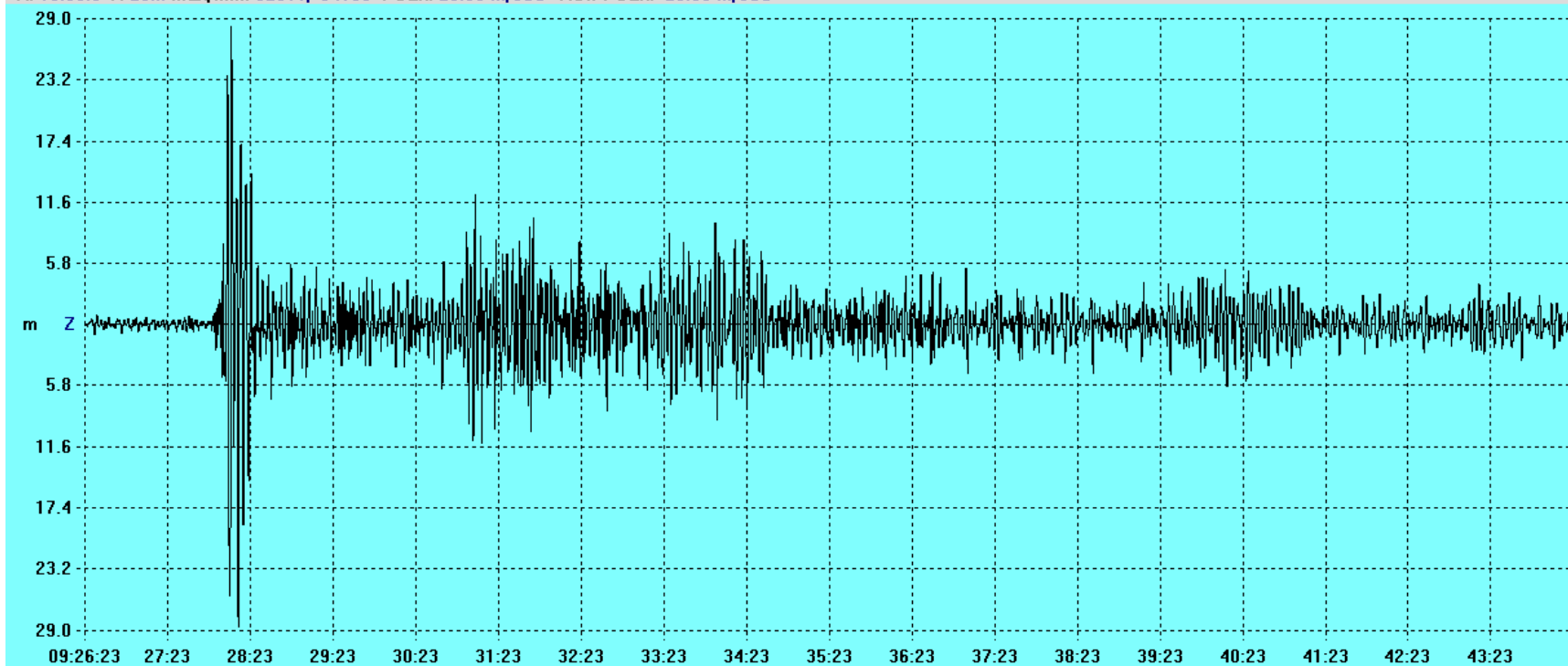
Start: 3/14/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00:00 Y: 29m Max/Min: 82811/-84139 Peak: 28.65 m/sec



PDE-Q 2012 03 14 090835.14 40.89 144.94 12 6.9 MwWCMT 4FM .....

Detalhes do sismograma acima:

Start: 3/14/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 18:09.0 Y: 29m Max/Min: 82811/-84139 Peak: 28.65 m/sec View Peak: 28.65 m/sec



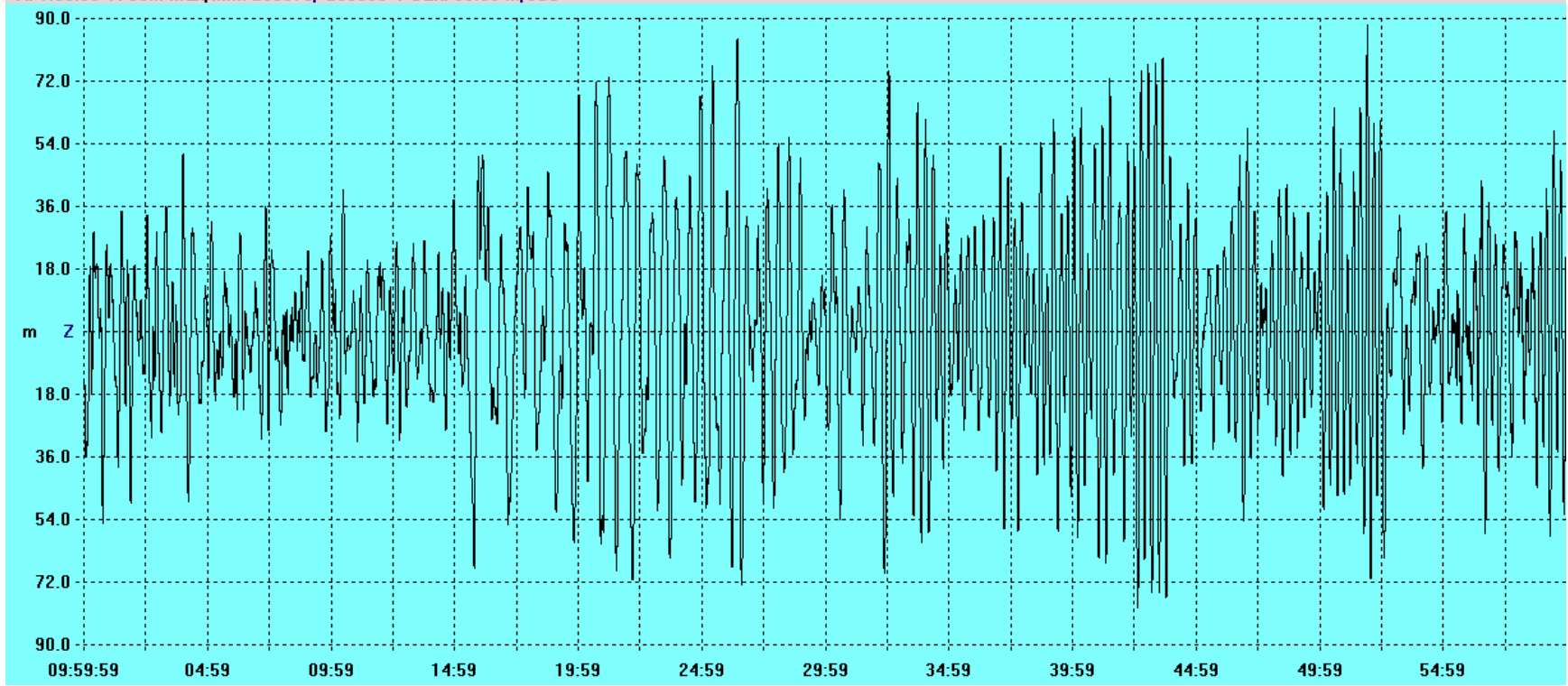
PDE-Q 2012 03 14 090835.14 40.89 144.94 12 6.9 MwWCMT 4FM .....



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

Start: 3/14/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 90m Max/Min: 258678/-233008 Peak: 88.08 m/sec

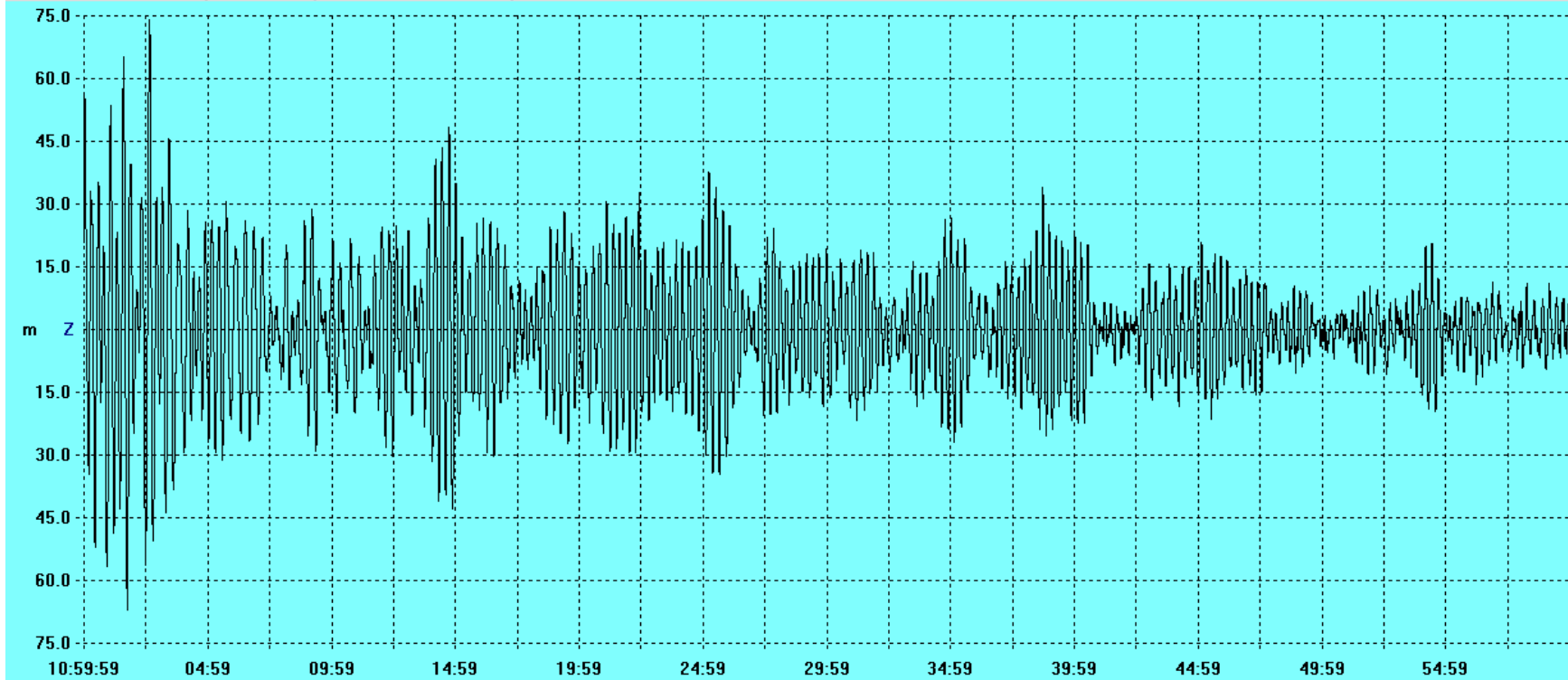


PDE-Q 2012 03 14 090835.14 40.89 144.94 12 6.9 MwWCMT 4FM .....

Registro da hora consecutiva à do sismograma acima (sismograma não filtrado):

Start: 3/14/12 10:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 75m Max/Min: 217926/-196956 Peak: 74.2 m/sec



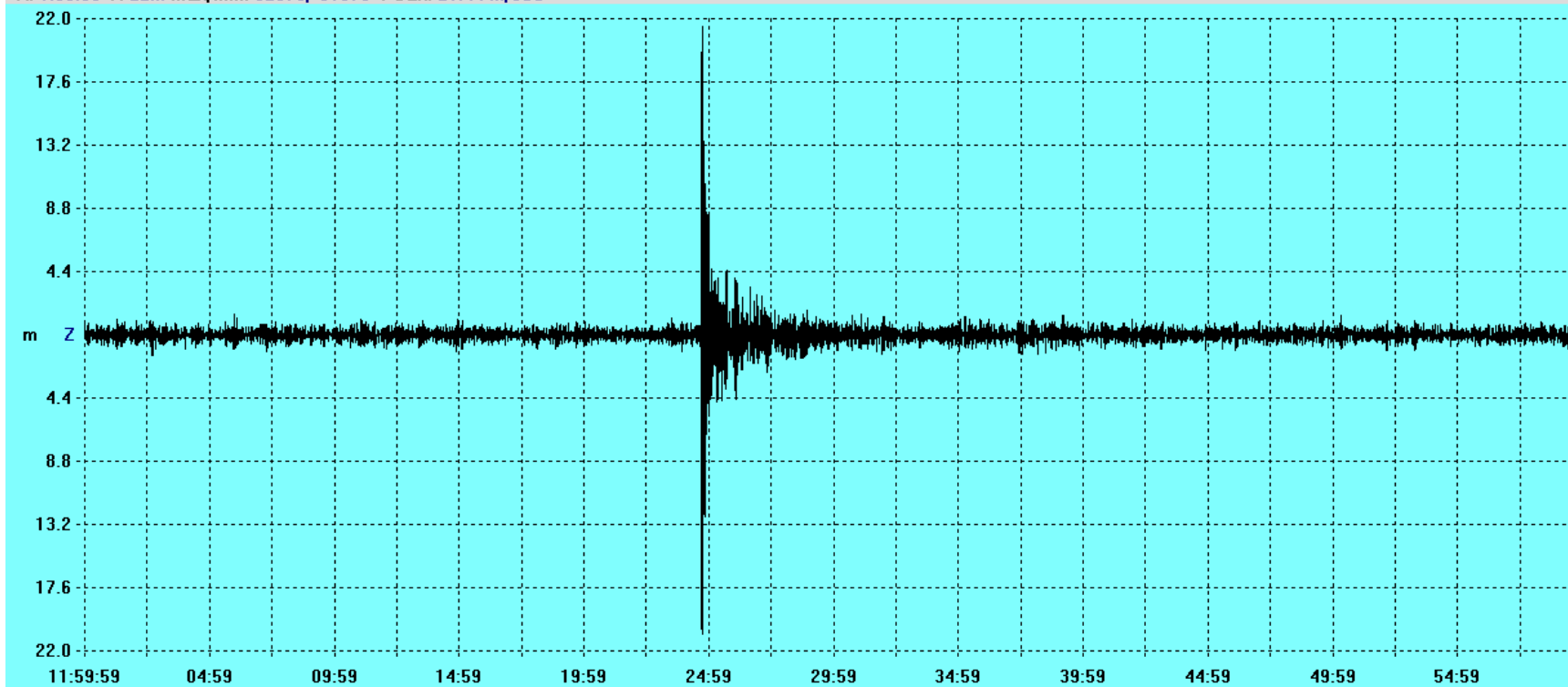
PDE-Q 2012 03 14 090835.14 40.89 144.94 12 6.9 MwWCMT 4FM .....

PDE-Q 2012 03 14 104924.58 40.78 144.76 10 6.1 MwGCMT 3FM .....

O sismograma a seguir foi filtrado usando-se um filtro band-pass (entre 0.3 e 1.0 Hz):

Start: 3/14/12 11:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 22m Max/Min: 62976/-61070 Peak: 21.44 m/sec

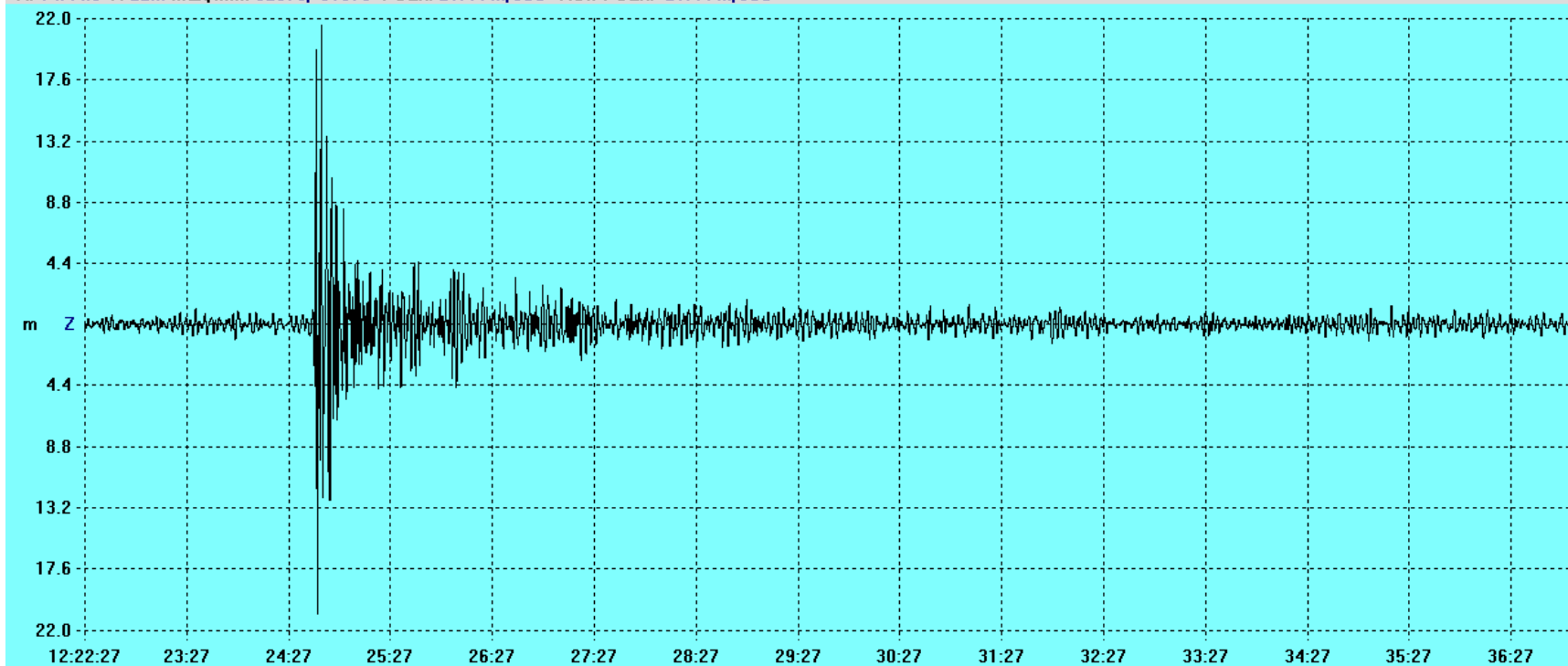


PDE-Q 2012 03 14 120504.52 35.69 140.70 10 6.0 MwGCMT 4FM .....

Detalhes do sismograma acima:

Start: 3/14/12 11:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

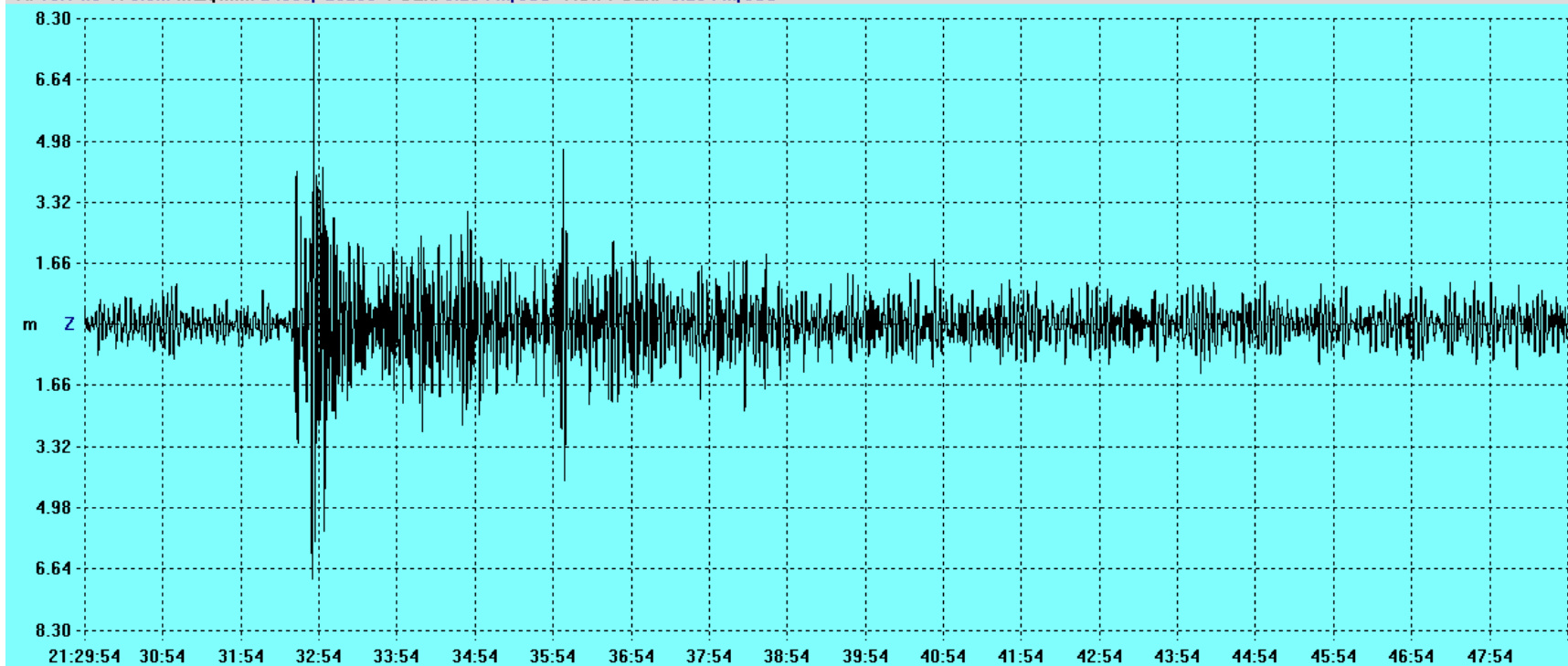
X: 14:44.0 Y: 22m Max/Min: 62976/-61070 Peak: 21.44 m/sec View Peak: 21.44 m/sec



PDE-Q 2012 03 14 120504.52 35.69 140.70 10 6.0 MwGCMT 4FM .....

O sismograma a seguir foi filtrado usando-se um filtro band-pass (entre 0.3 e 1.0 Hz):

Start: 3/14/12 20:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 19:14.0 Y: 8.3m Max/Min: 24330/-20293 Peak: 8.284 m/sec View Peak: 8.284 m/sec

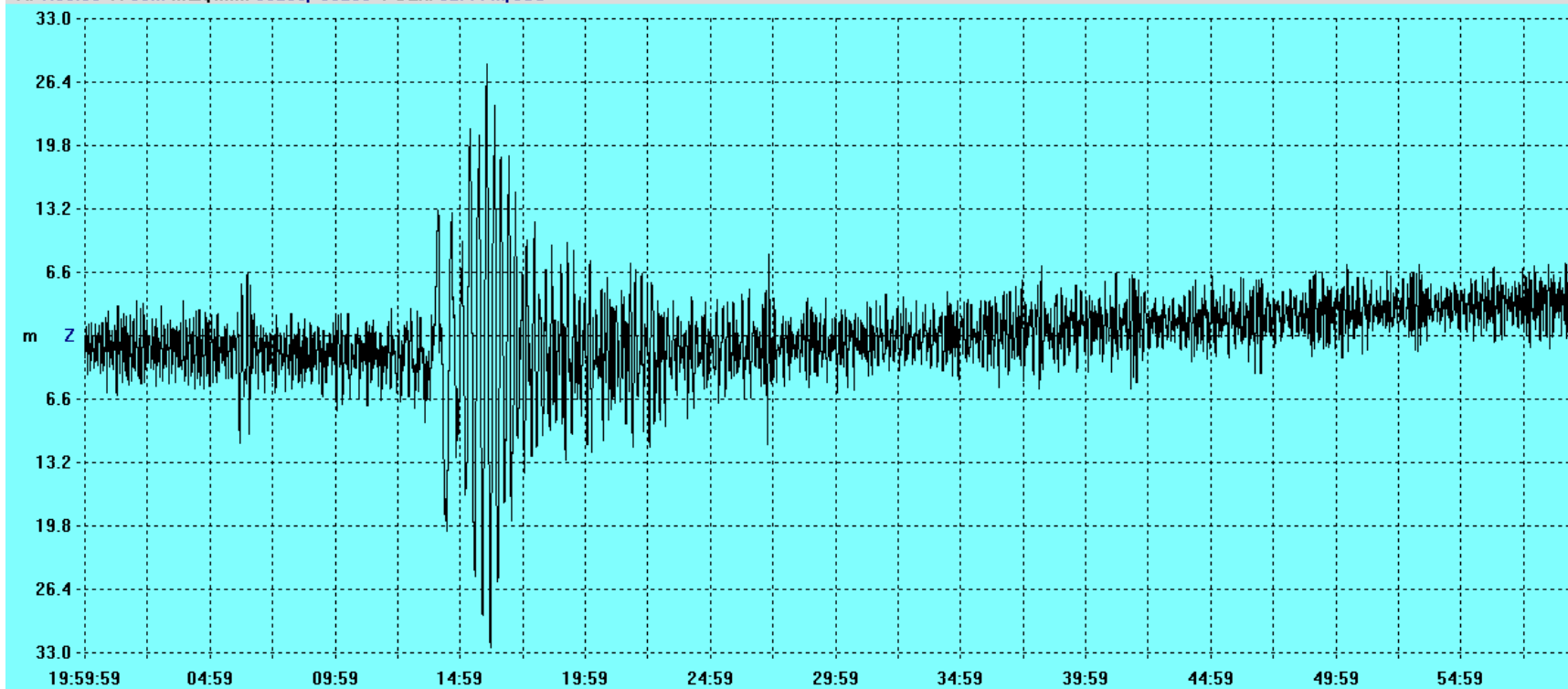


PDE-Q 2012 03 14 211308.04 -5.59 151.04 28 6.2 MwWCMT .FM .....

O sismograma a seguir não foi filtrado:

Start: 3/17/12 19:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

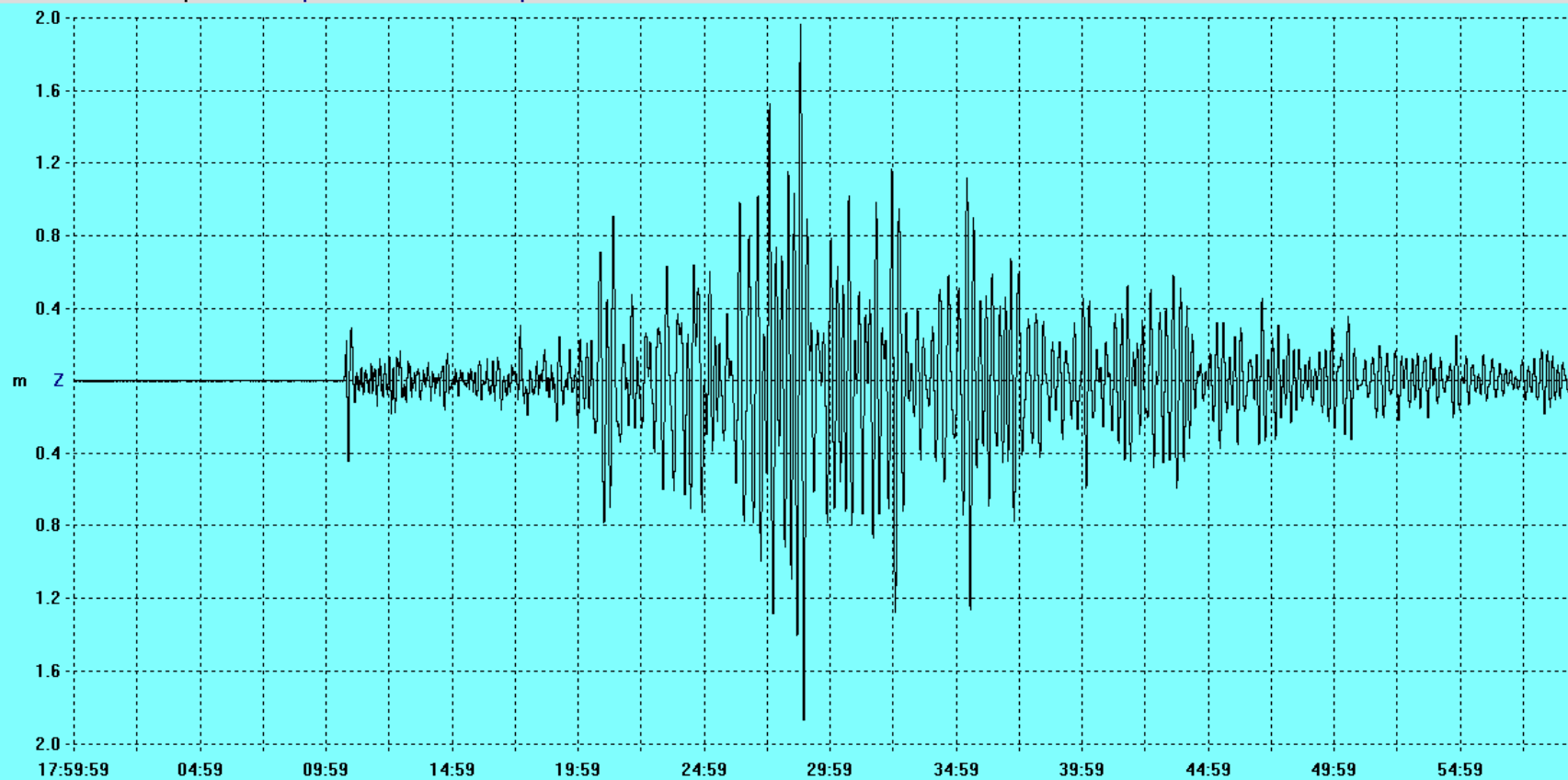
X: 1:00:00 Y: 33m Max/Min: 83235/-95286 Peak: 32.44 m/sec



PDE-Q 2012 03 17 195024.39 -34.79 -107.56 31 5.8 MwWCMT ..M .....

O sismograma a seguir não foi filtrado:

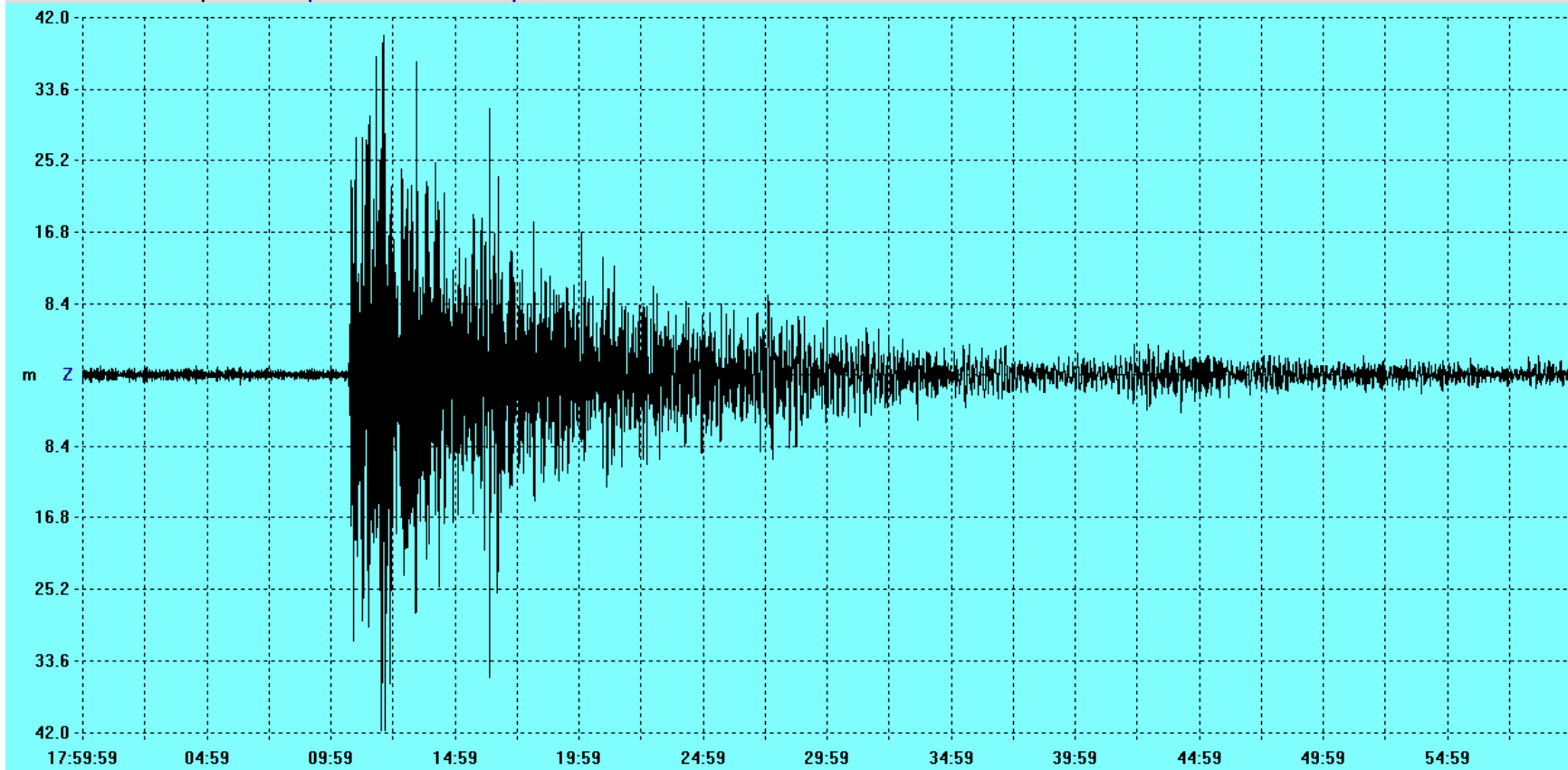
Start: 3/20/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00:00 Y: 2m Max/Min: 5753153/-5495907 Peak: 1.959 m/sec



Sismo ocurrido no México: PDE-Q 2012 03 20 180247.74 16.52 -98.24 20 7.4 MwWCMT 8FM ..S....

Versão filtrada do sismograma acima (filtro band-pass entre 0.3 e 1.0 Hz):

Start: 3/20/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 1:00-00 Y: 42m Max/Min: 117022/-122623 Peak: 41.75 m/sec

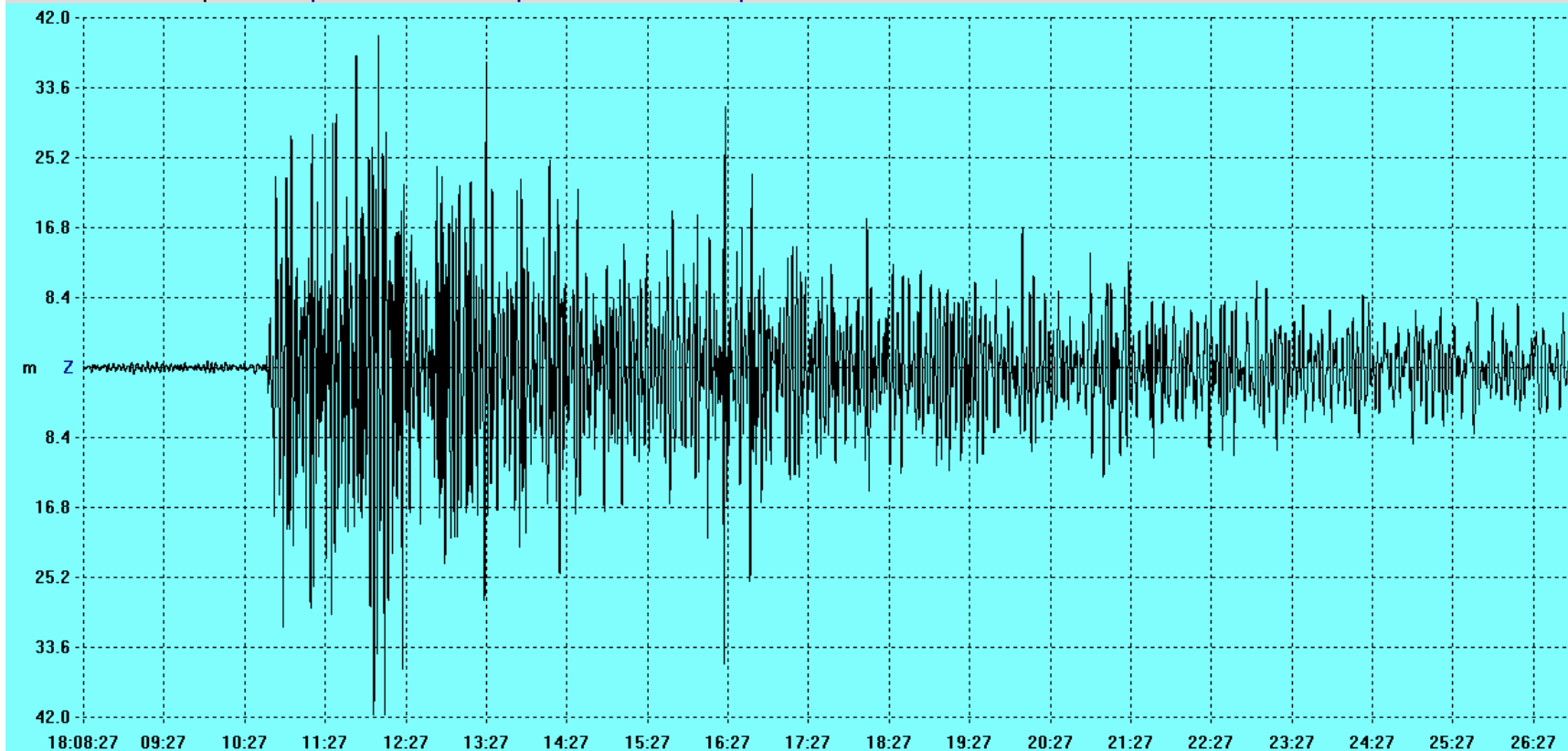


Sismo ocorrido no México: PDE-Q 2012 03 20 180247.74 16.52 -98.24 20 7.4 MwWCMT 8FM ..S....



Detalhes do sismograma acima:

Start: 3/20/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 18:39.0 Y: 42m Max/Min: 117022/-122623 Peak: 41.75 m/sec View Peak: 41.75 m/sec

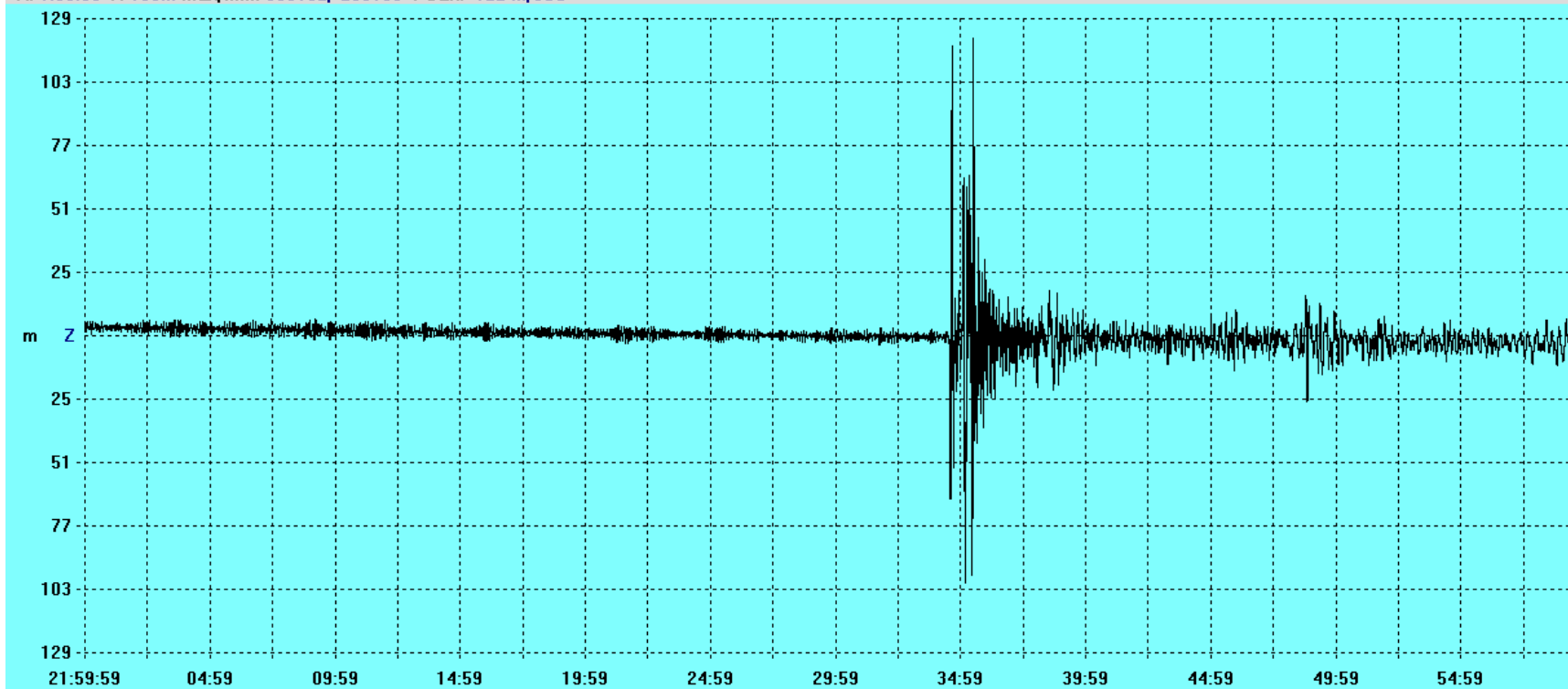


Sismo ocorrido no México: PDE-Q 2012 03 20 180247.74 16.52 -98.24 20 7.4 MwWCMT 8FM ..S....

O sismograma a seguir não foi filtrado:

Start: 3/21/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

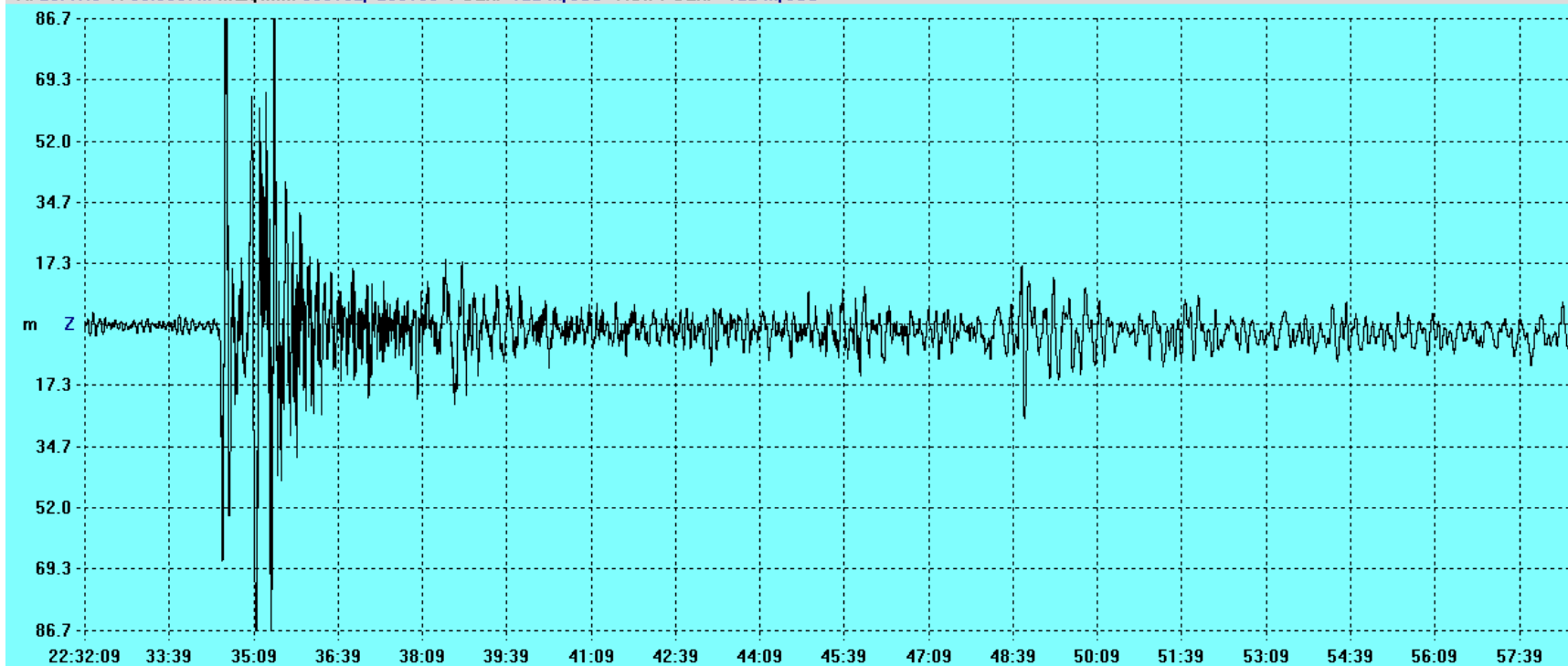
X: 1:00:00 Y: 130m Max/Min: 358192/-298106 Peak: 122 m/sec



PDE-Q 2012 03 21 221506.13 -6.24 145.96 118 6.6 MwWCMT 5FM .....

Detalhes do sismograma acima:

Start: 3/21/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 26:41.0 Y: 86.6667m Max/Min: 358192/-298106 Peak: 122 m/sec View Peak: 122 m/sec

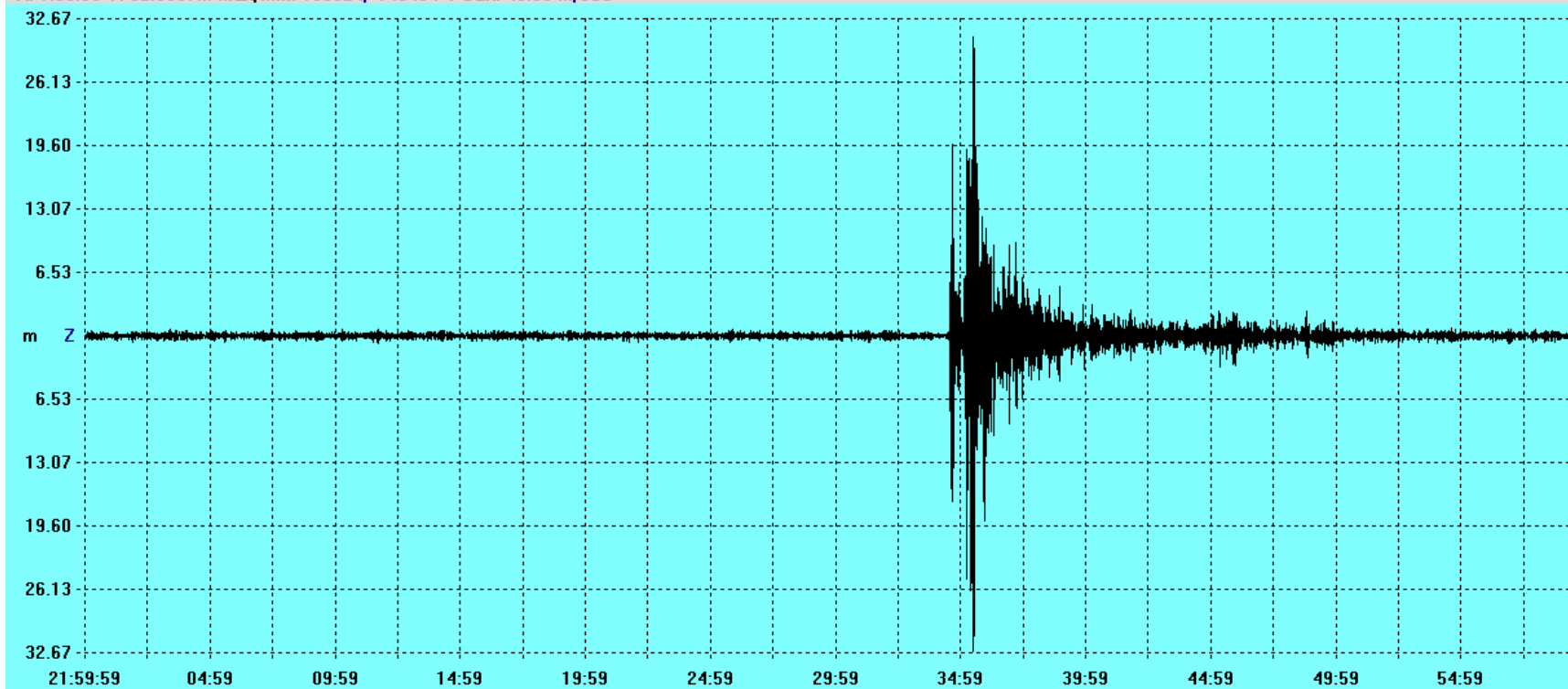


PDE-Q 2012 03 21 221506.13 -6.24 145.96 118 6.6 MwWCMT 5FM .....

Versão filtrada (filtro band-pass, entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 3/21/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

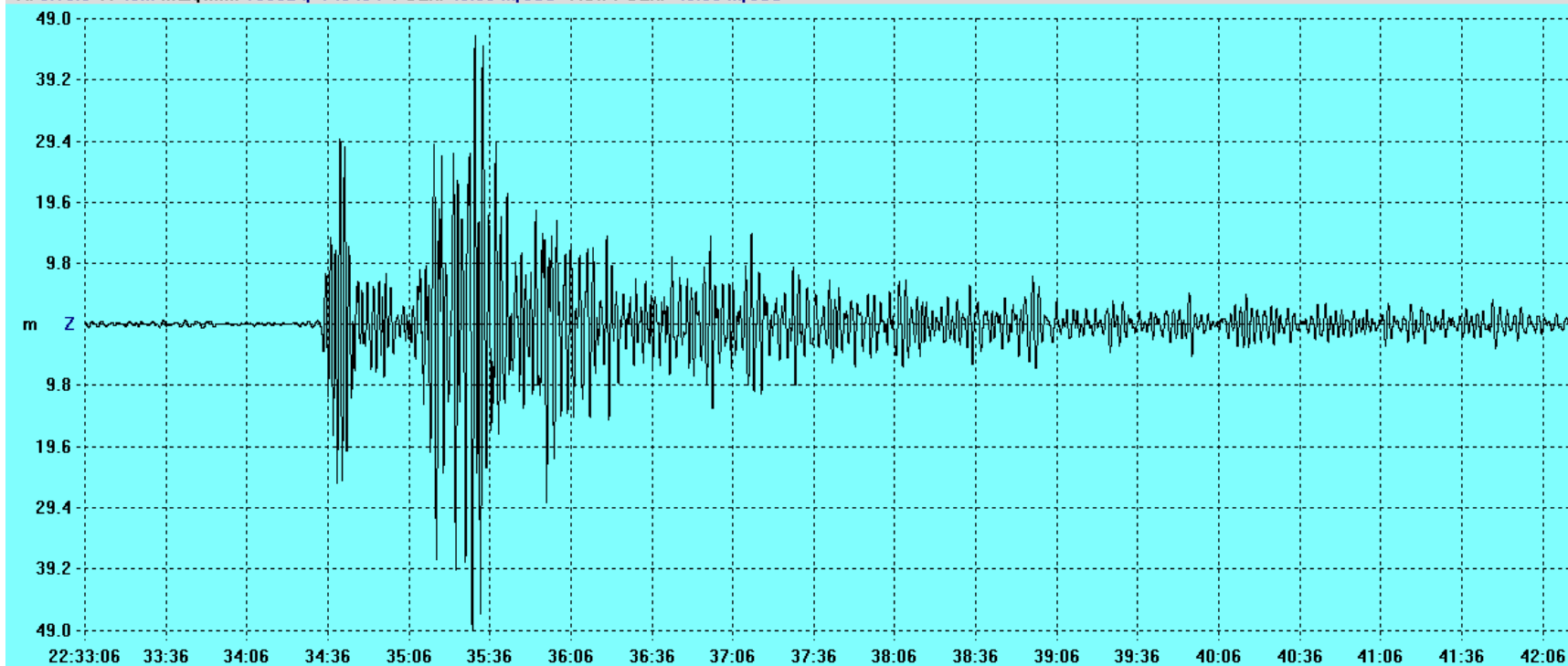
X: 1:00:00 Y: 32.6667m Max/Min: 135524/-143404 Peak: 48.83 m/sec



PDE-Q 2012 03 21 221506.13 -6.24 145.96 118 6.6 MwWCMT 5FM .....

Detalhes do sismograma acima:

Start: 3/21/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 9:16.0 Y: 49m Max/Min: 135524/-143404 Peak: 48.83 m/sec View Peak: 48.83 m/sec

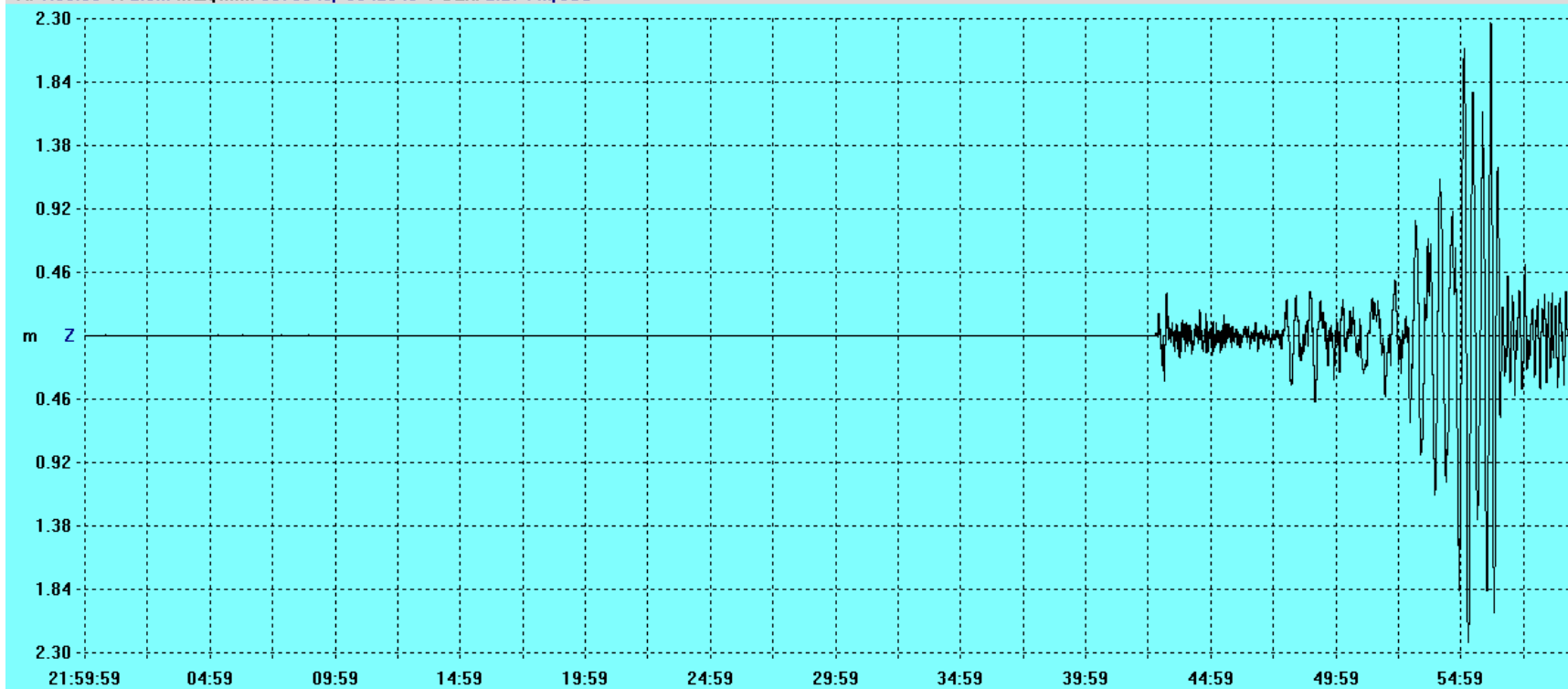


PDE-Q 2012 03 21 221506.13 -6.24 145.96 118 6.6 MwWCMT 5FM .....

O sismograma a seguir não foi filtrado:

Start: 3/25/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 2.3m Max/Min: 6678649/-6542346 Peak: 2.274 m/sec

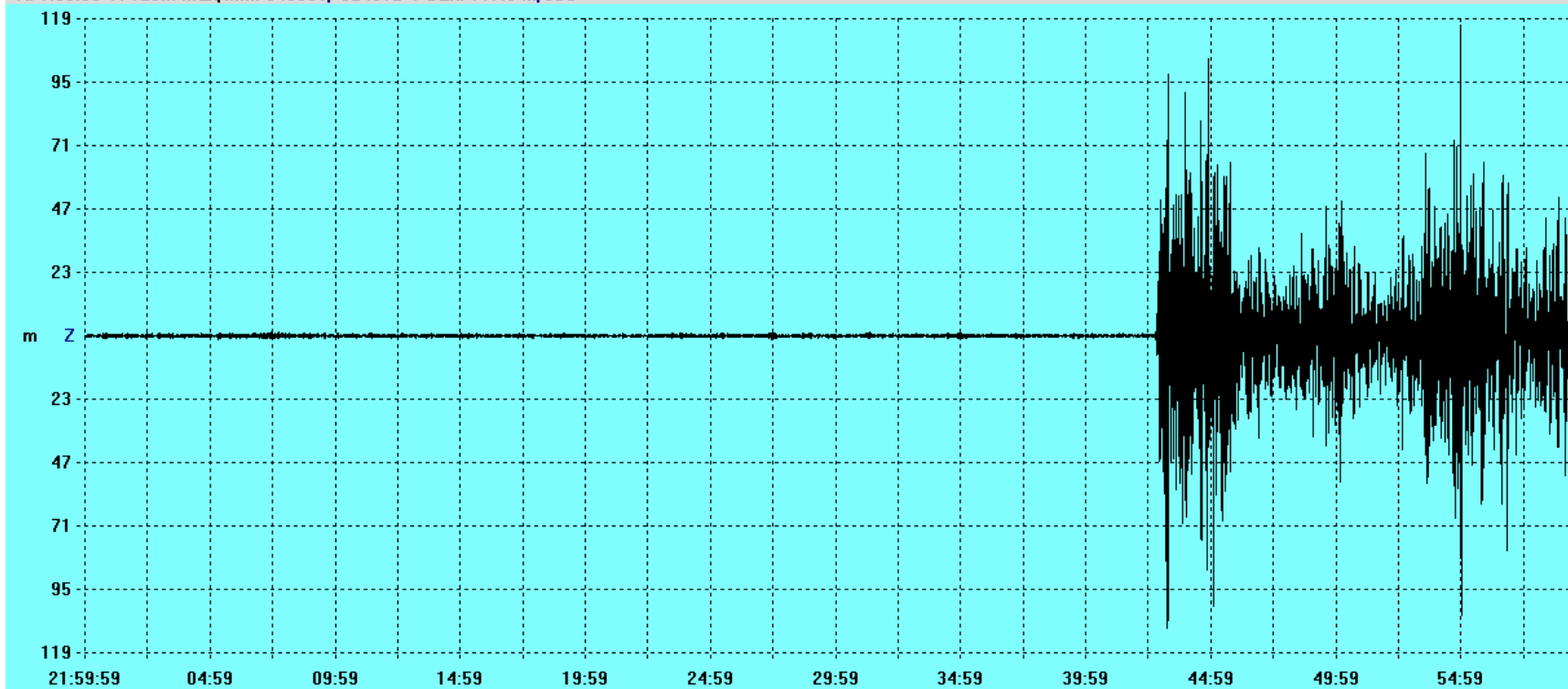


Sismo ocorrido no Chile: PDE-Q 2012 03 25 223706.75 -35.18 -71.79 34 7.1 MwWCMT ..M .....

Versão filtrada (filtro band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 3/25/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

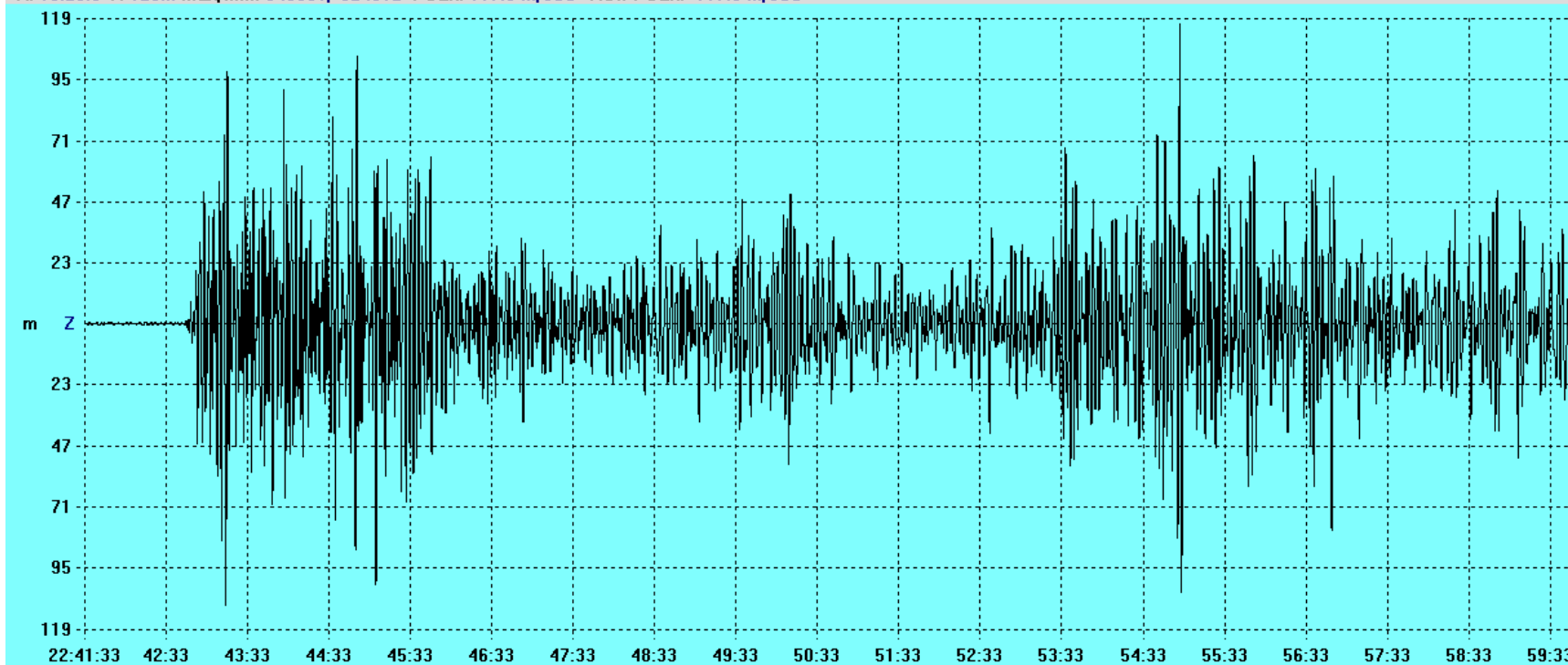
X: 1:00:00 Y: 120m Max/Min: 345031/-324612 Peak: 117.5 m/sec



Sismo ocorrido no Chile: PDE-Q 2012 03 25 223706.75 -35.18 -71.79 34 7.1 MwWCMT ..M .....

Detalhes do sismograma acima:

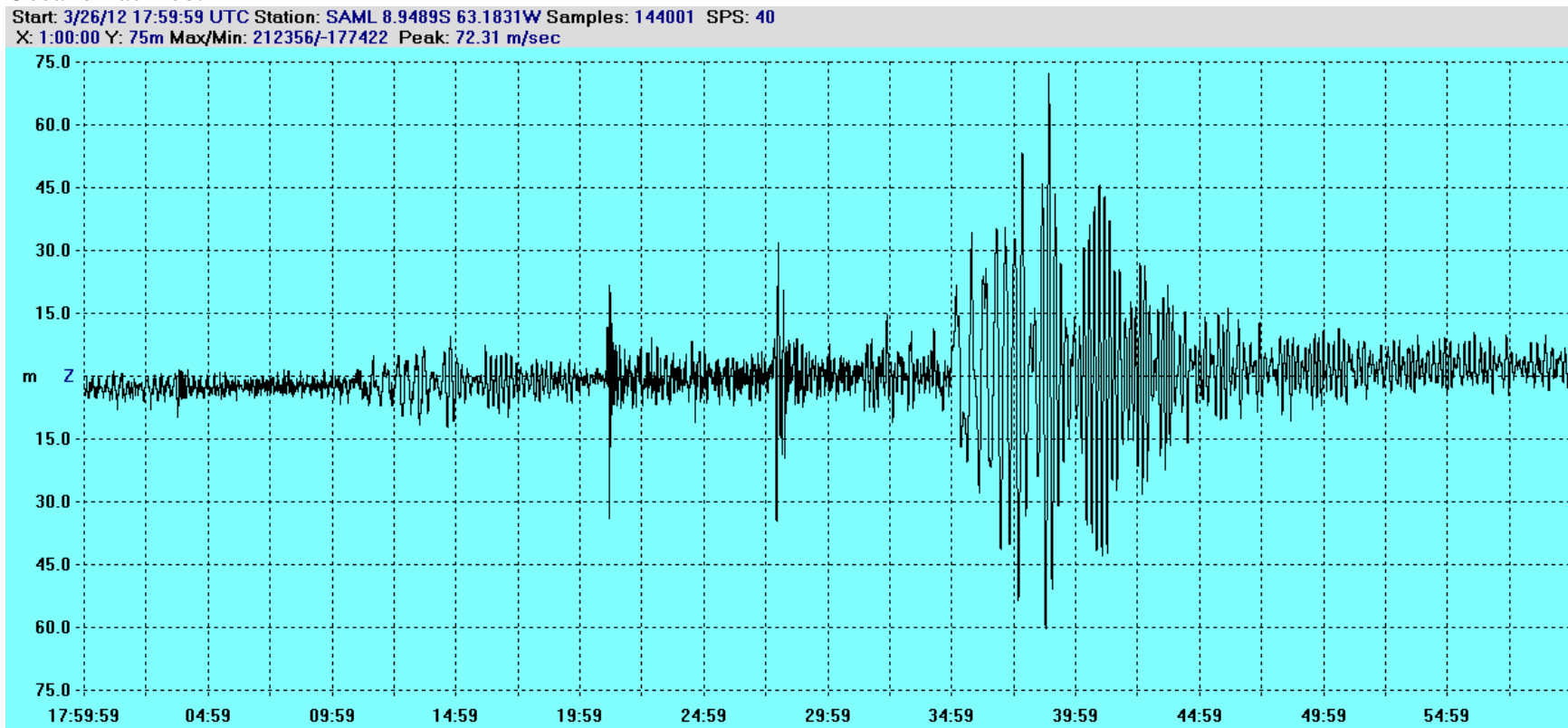
Start: 3/25/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 18:25.0 Y: 120m Max/Min: 345031/-324612 Peak: 117.5 m/sec View Peak: 117.5 m/sec



Sismo ocorrido no Chile: PDE-Q 2012 03 25 223706.75 -35.18 -71.79 34 7.1 MwWCMT ..M .....



O sismograma a seguir não foi filtrado – registro de dois sismos consecutivos, com epicentro aproximadamente na mesma região, no Oceano Pacífico:

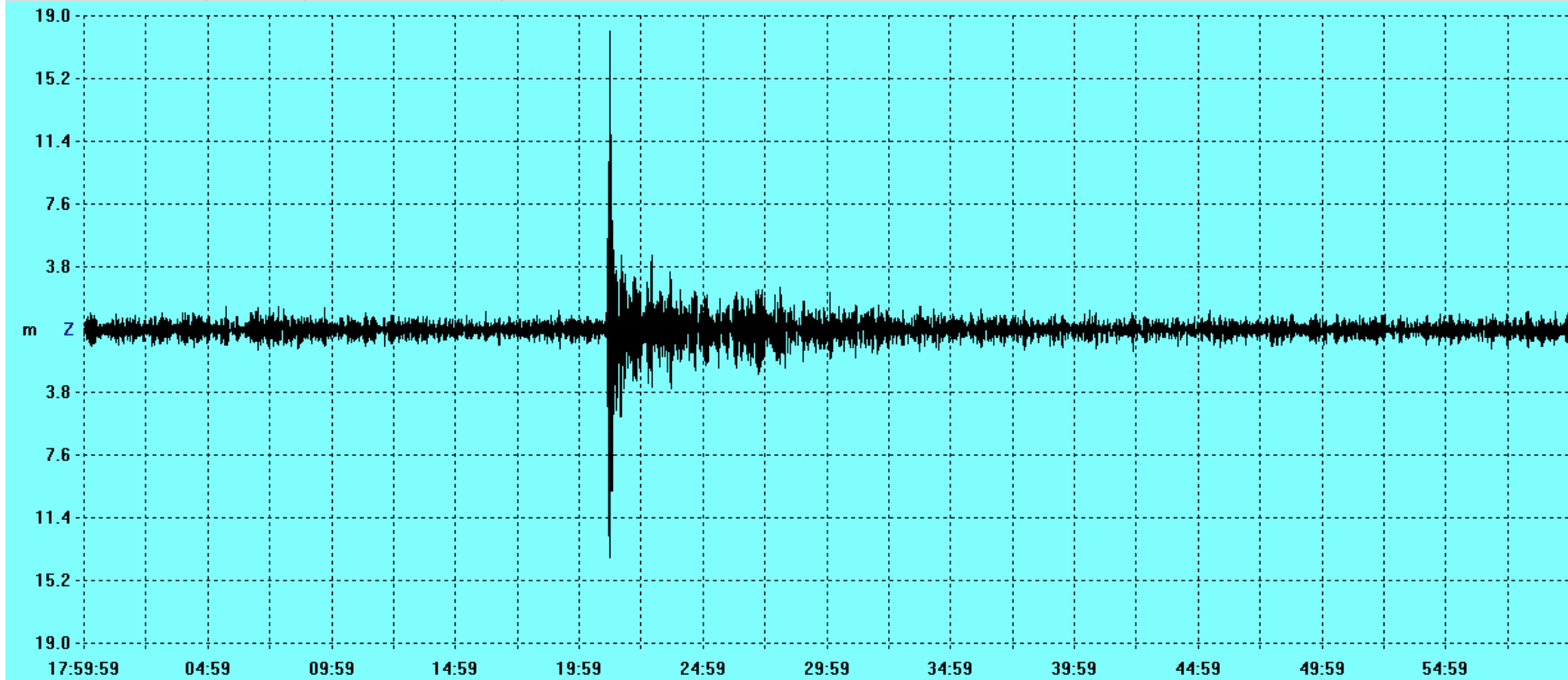


PDE-Q	2012	03	26	174844.72	10.15	-104.01	10	5.5	MwGCMT	..M	.....
PDE-Q	2012	03	26	181254.38	10.20	-104.03	9	6.0	MwGS	..M	.....

Versão filtrada do sismograma acima (filtro band-pass entre 0.3 e 1.0 Hz):

Start: 3/26/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

X: 1:00:00 Y: 19m Max/Min: 53088/-40562 Peak: 18.08 m/sec

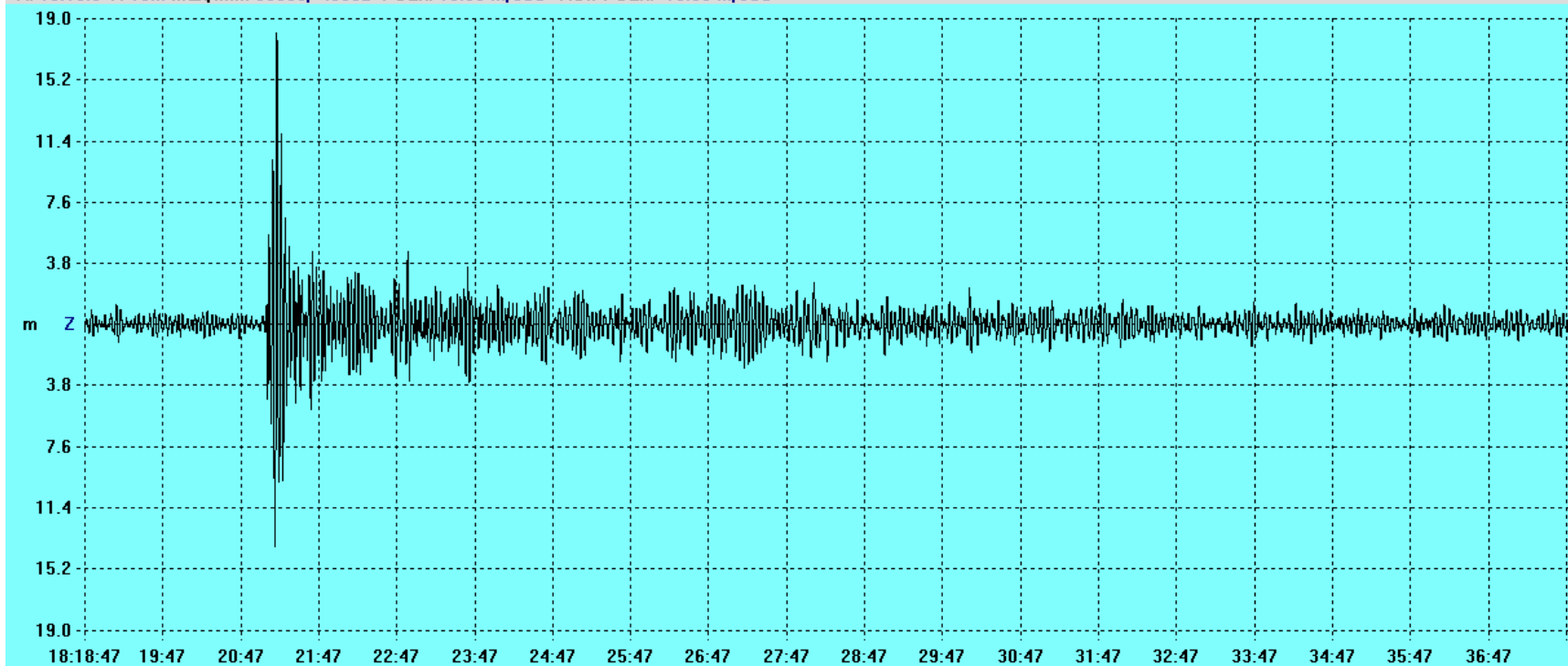


PDE-Q	2012	03	26	174844.72	10.15	-104.01	10	5.5	MwGCMT	..M	.....
PDE-Q	2012	03	26	181254.38	10.20	-104.03	9	6.0	MwGS	..M	.....

Detalhes do sismograma acima (apenas do segundo sismo, o principal):

Start: 3/26/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40

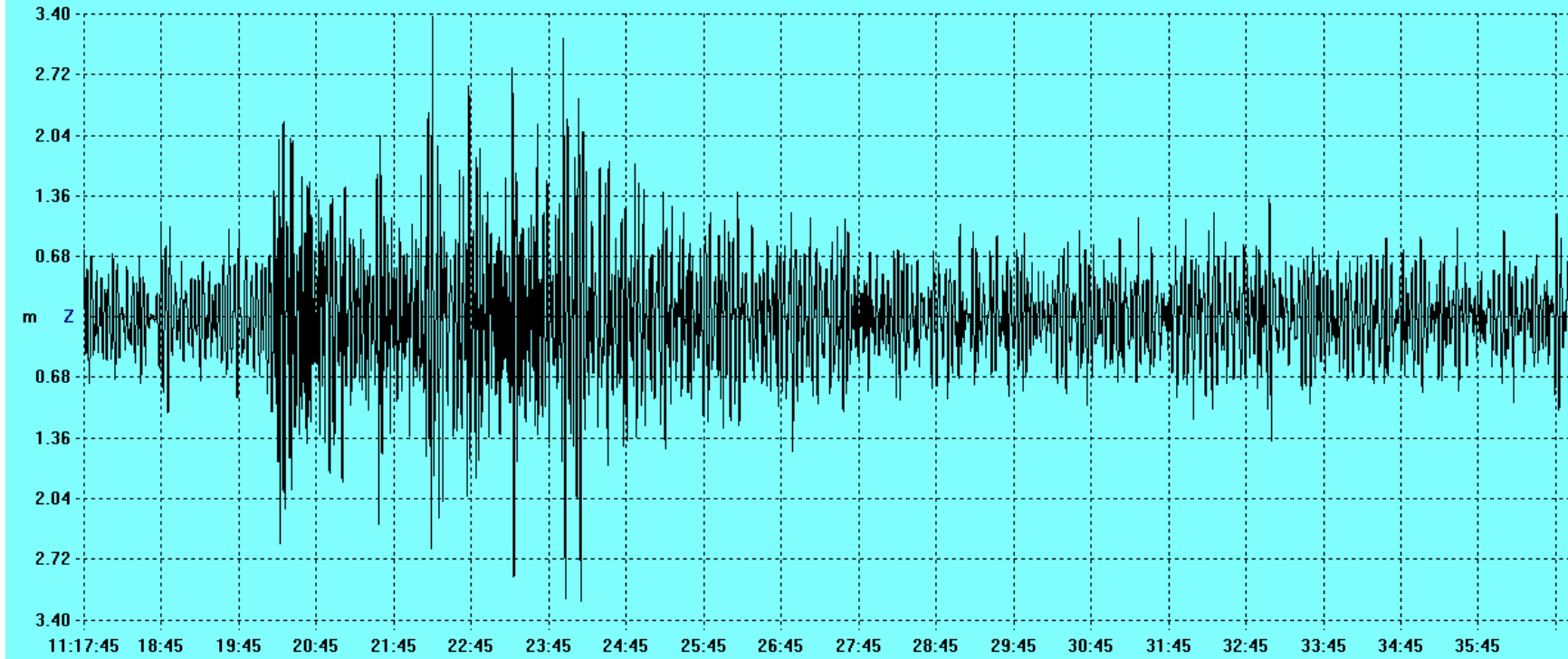
X: 19:15.0 Y: 19m Max/Min: 53088/-40562 Peak: 18.08 m/sec View Peak: 18.08 m/sec



PDE-Q 2012 03 26 181254.38 10.20 -104.03 9 6.0 MwGS ..M .....

O sismograma a seguir foi filtrado usando-se um filtro band-pass (entre 0.3 e 1.0 Hz):

Start: 3/27/12 10:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 40  
X: 19:12.0 Y: 3.4m Max/Min: 9865/-9366 Peak: 3.359 m/sec View Peak: 3.359 m/sec



PDE-Q 2012 03 27 110043.84 39.87 142.12 10 6.1 MwUCMT ..M .....