

Apêndice

Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio

Junho 2012

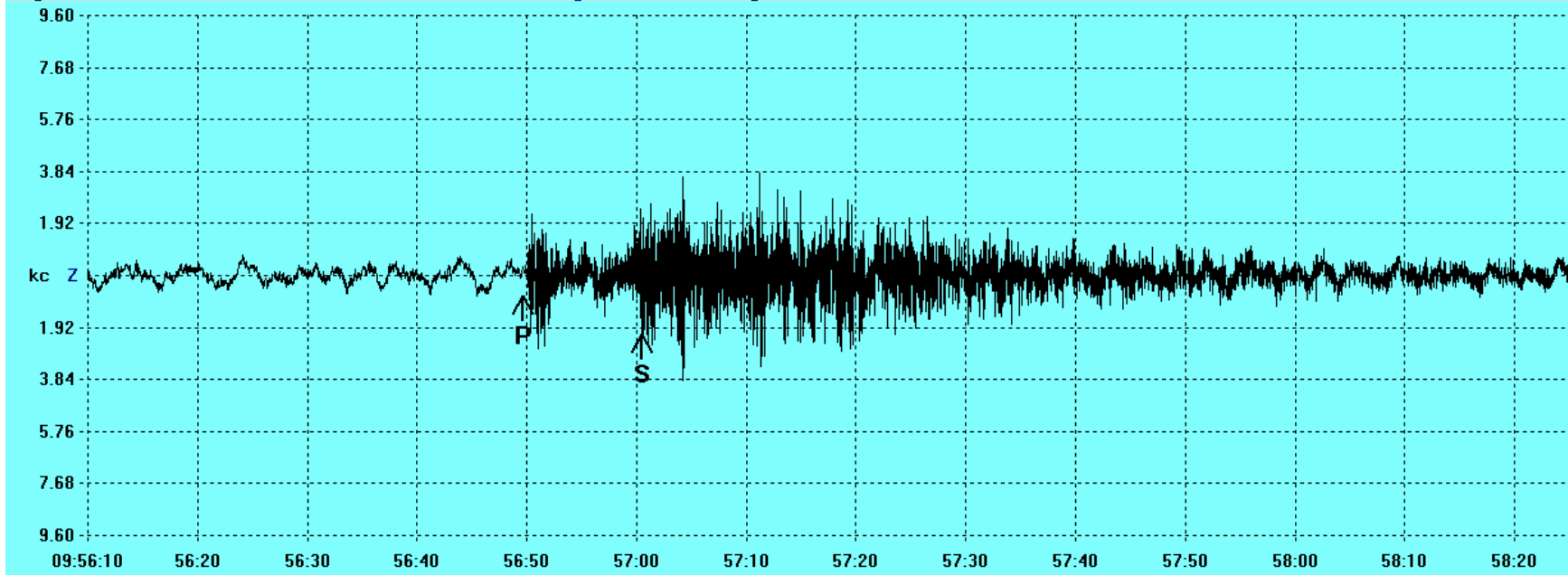
Registros das Estações SAML, SANT1 e SANT2

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.

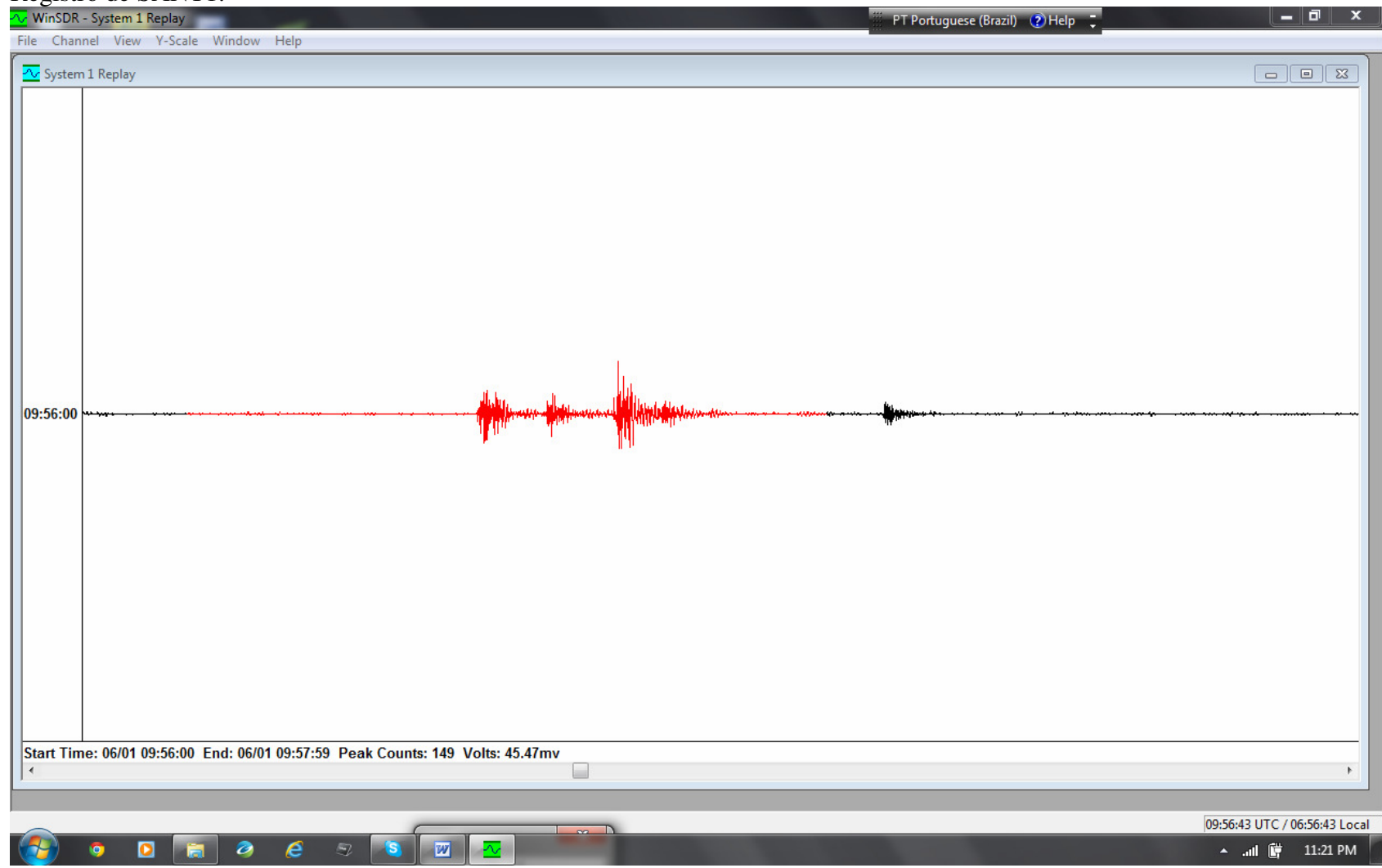
Registro de SAML:

Start: 6/01/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 9572/-6534 X: 2:15.0 Y: 9.6kc
Org: 9:56:34.9 P: 9:56:49.6 S: 9:57:00.5 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



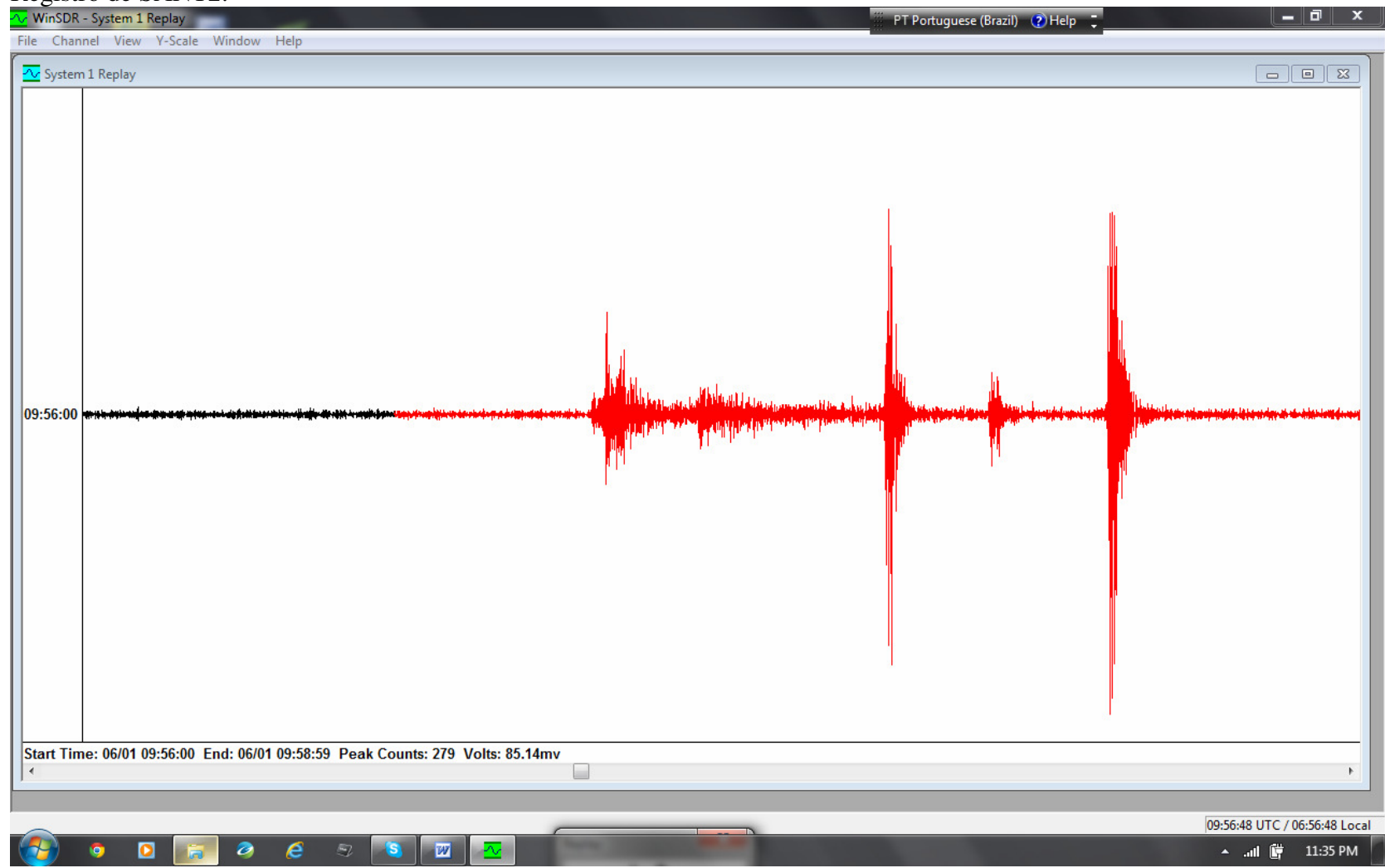
Evento 1

Registro de SANT1:



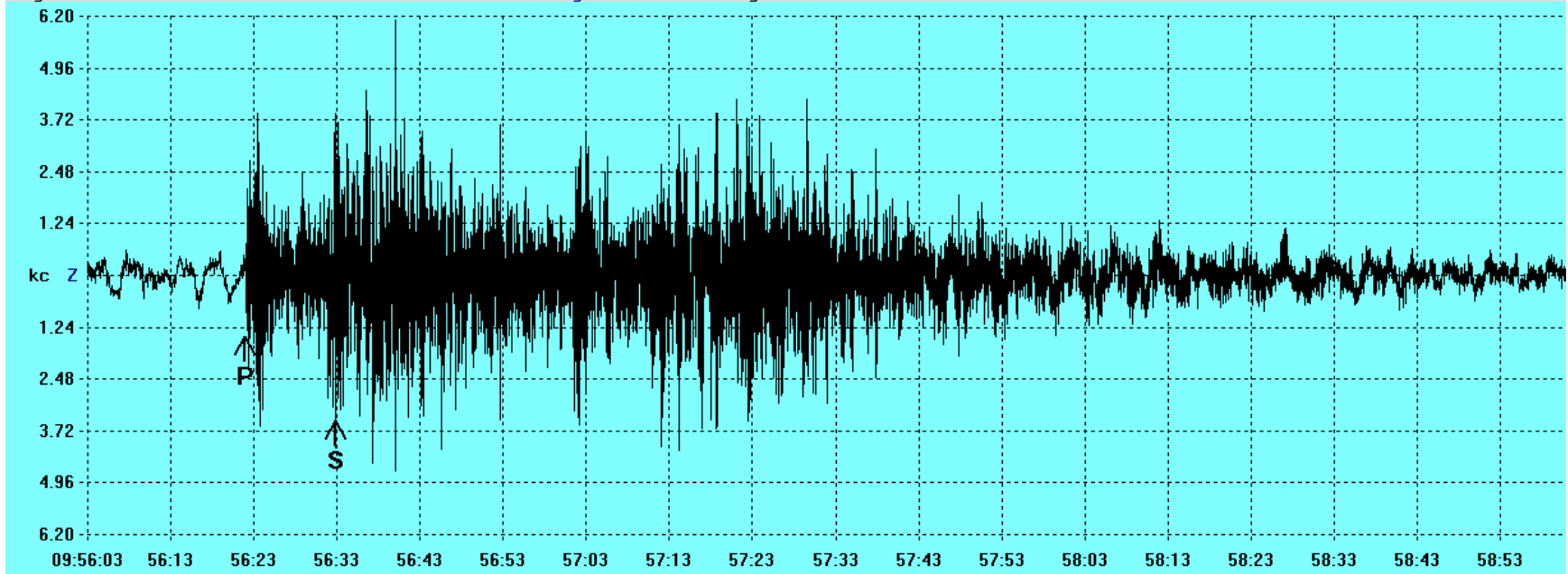
Evento 1

Registro de SANT2:



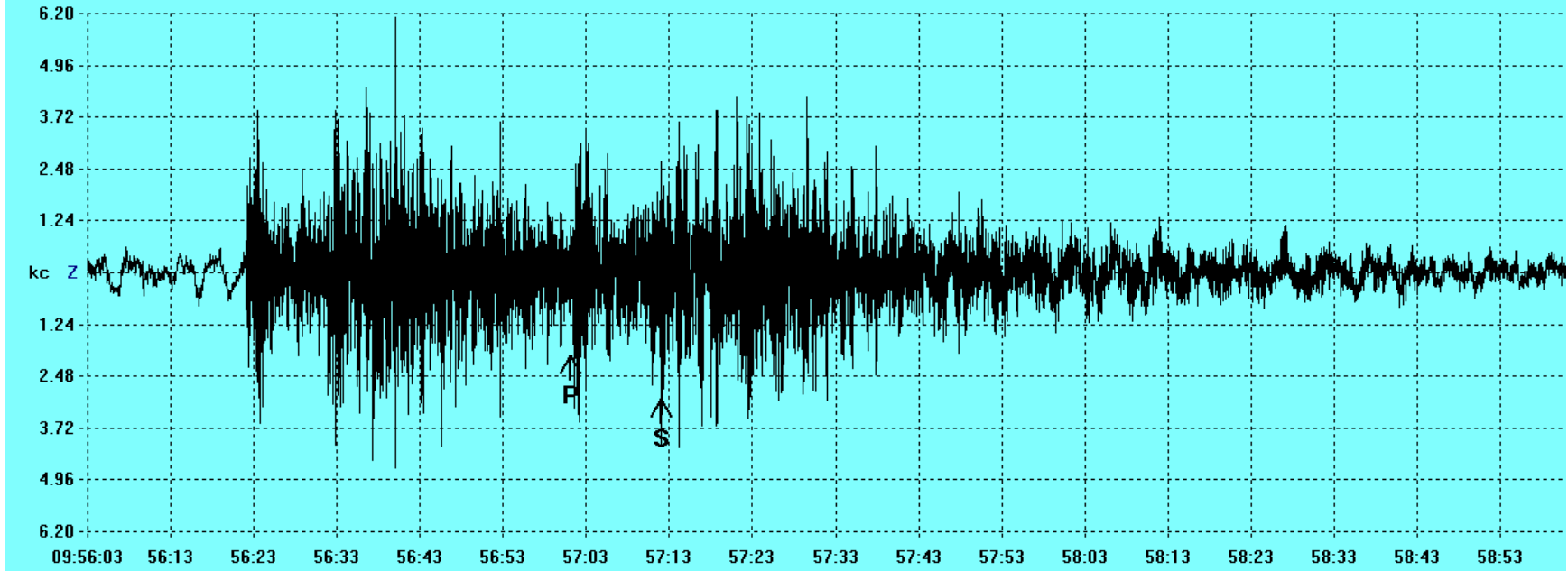
Evento 1

Start: 6/02/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6118/-4686 X: 2:58.0 Y: 6.2kc
Org: 9:56:07.2 P: 9:56:21.9 S: 9:56:32.8 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



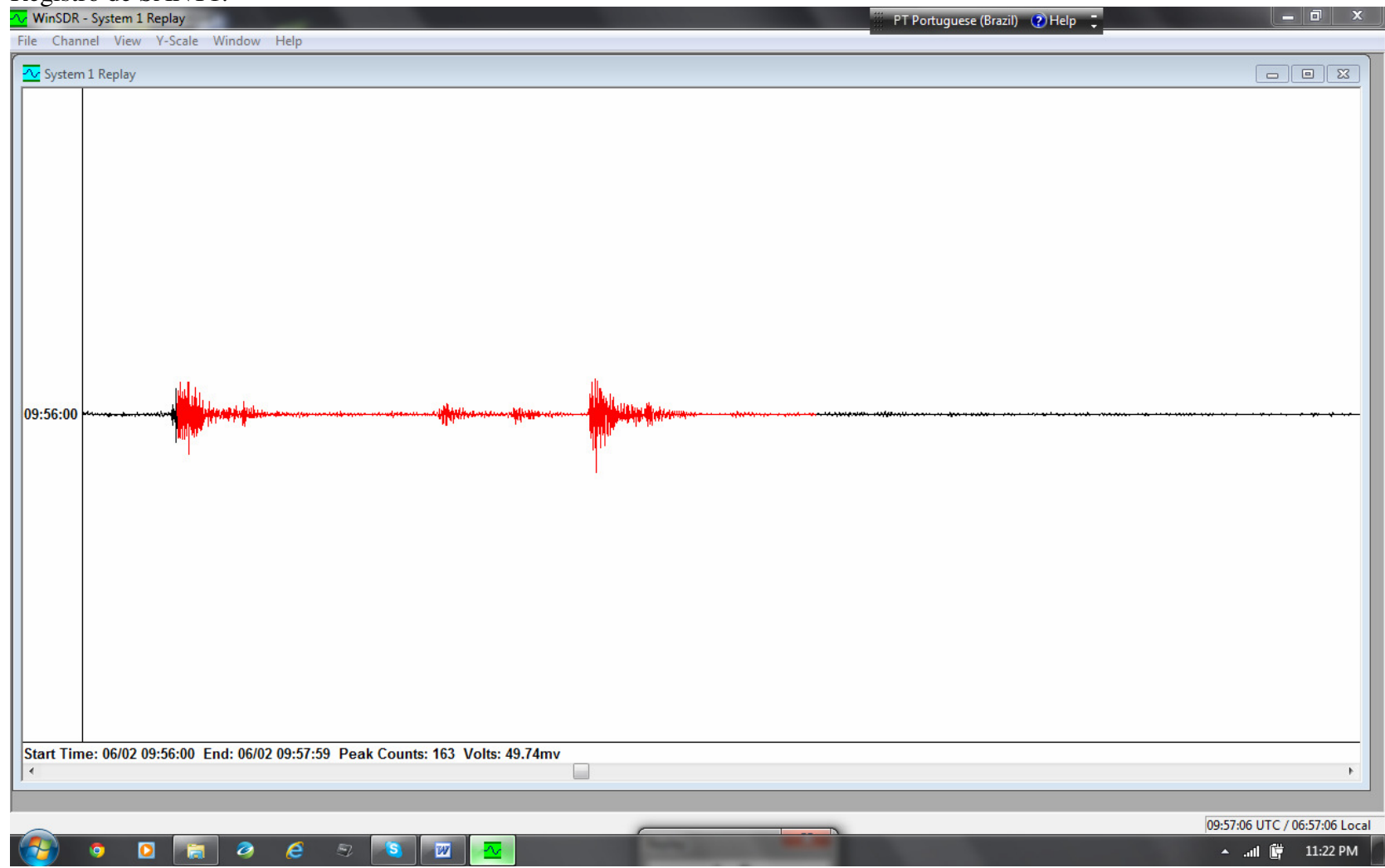
Evento 2

Start: 6/02/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6118/-4686 X: 2:58.0 Y: 6.2kc
Org: 9:56:46.4 P: 9:57:01.1 S: 9:57:12.0 Diff: 10.9sec Dist: 0.761 deg 84.6km 52.6mi Mag: MI?? JB: 33



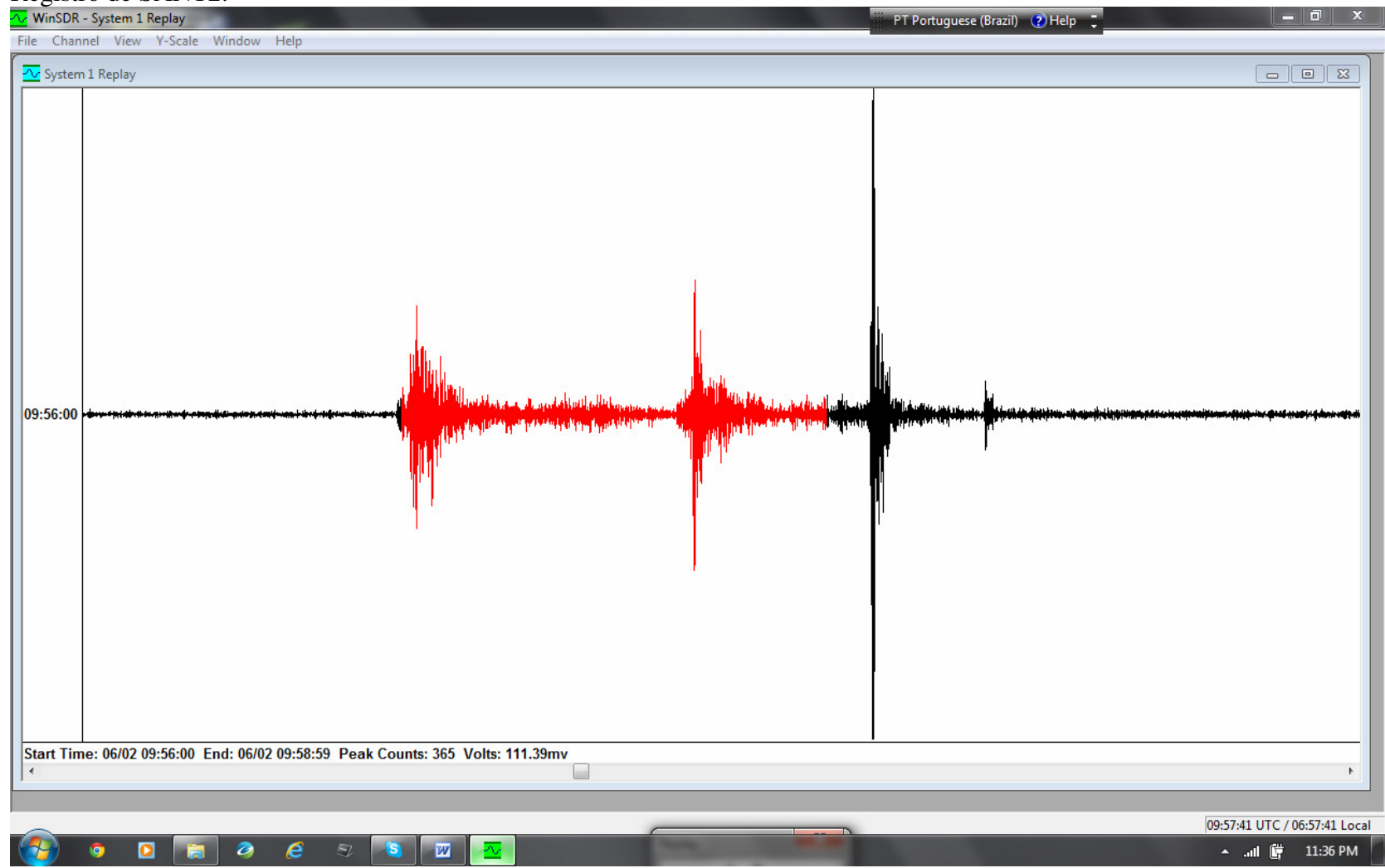
Evento 2 (eventos superpuestos)

Registro de SANT1:



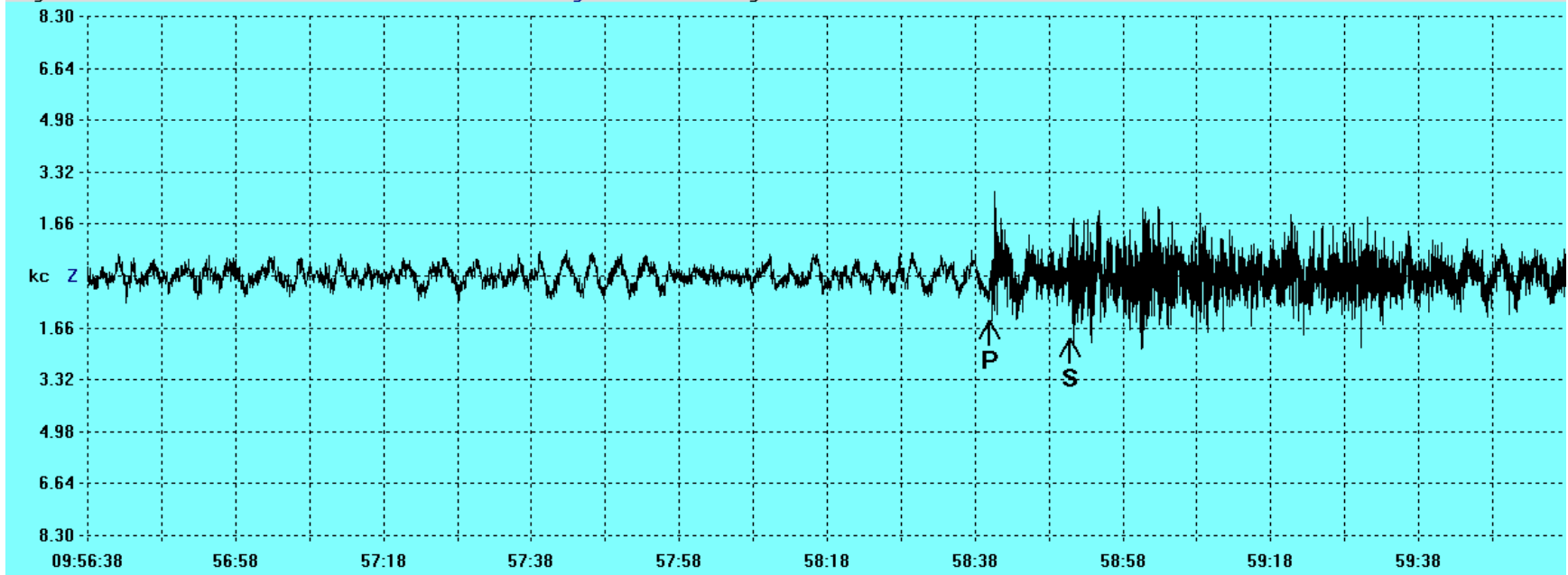
Evento 2

Registro de SANT2:



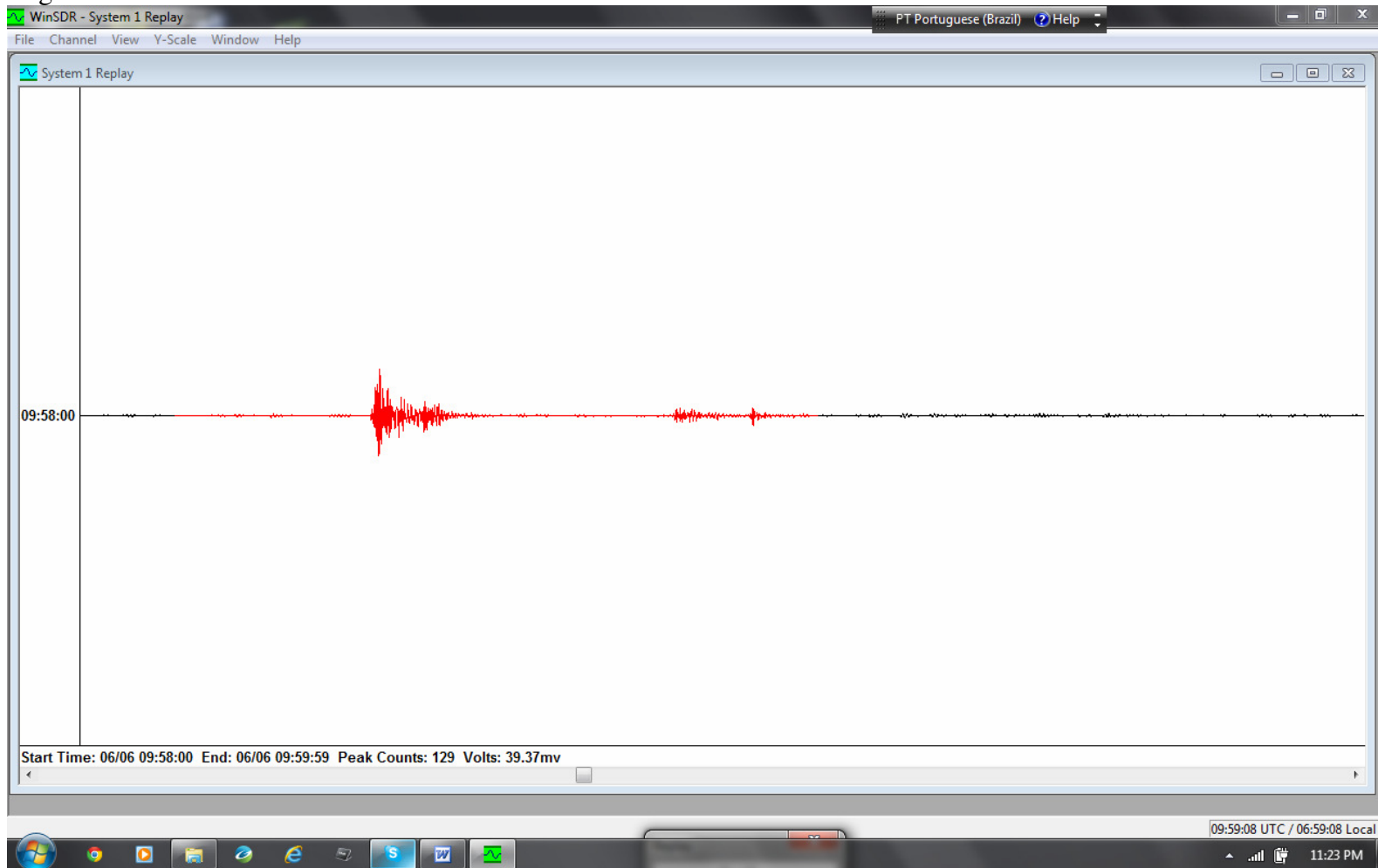
Evento 2

Start: 6/06/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 8007/-8214 X: 3.20.0 Y: 8.3kc
Org: 9:58:25.2 P: 9:58:39.9 S: 9:58:50.8 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



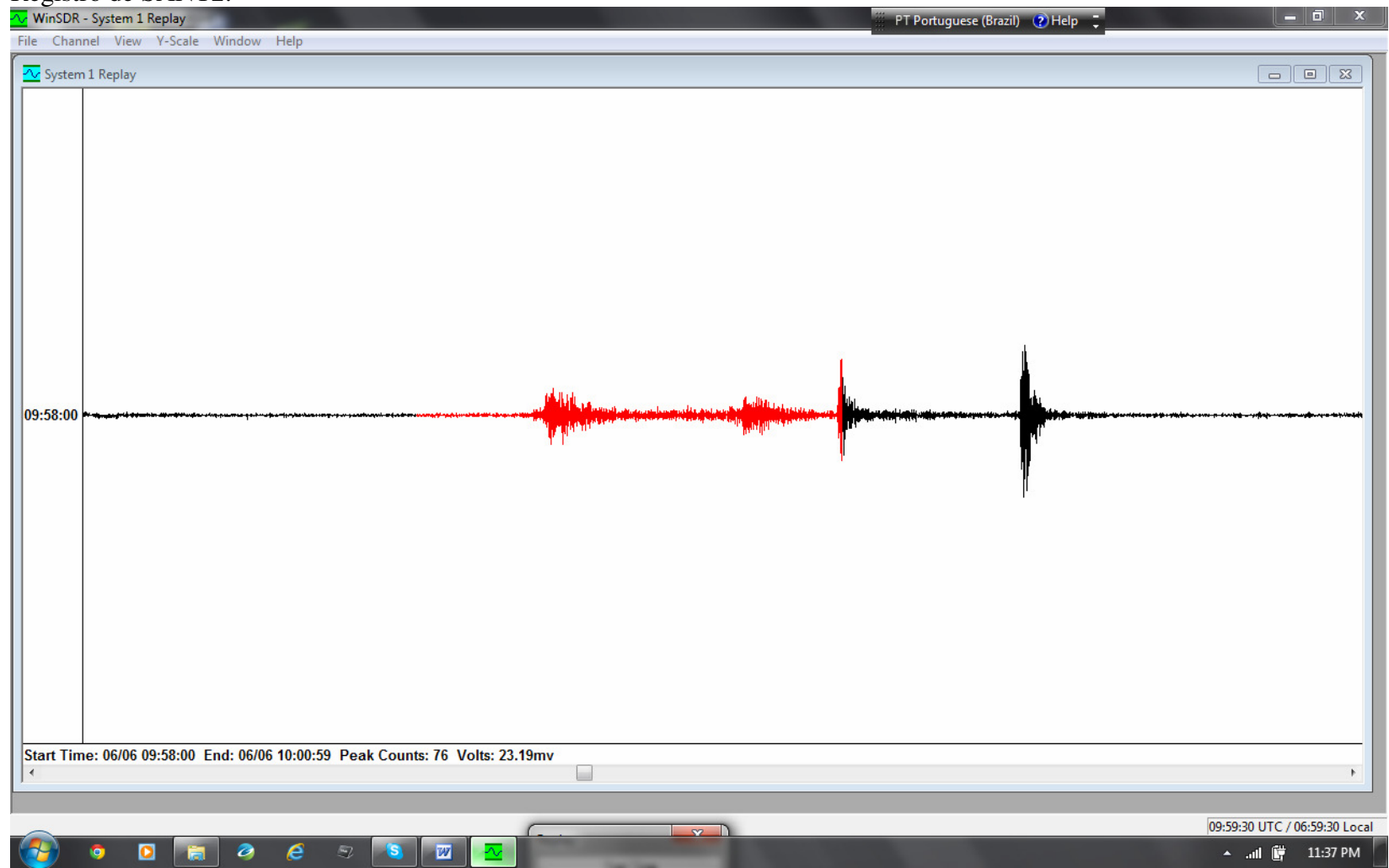
Evento 3

Registro de SANT1:



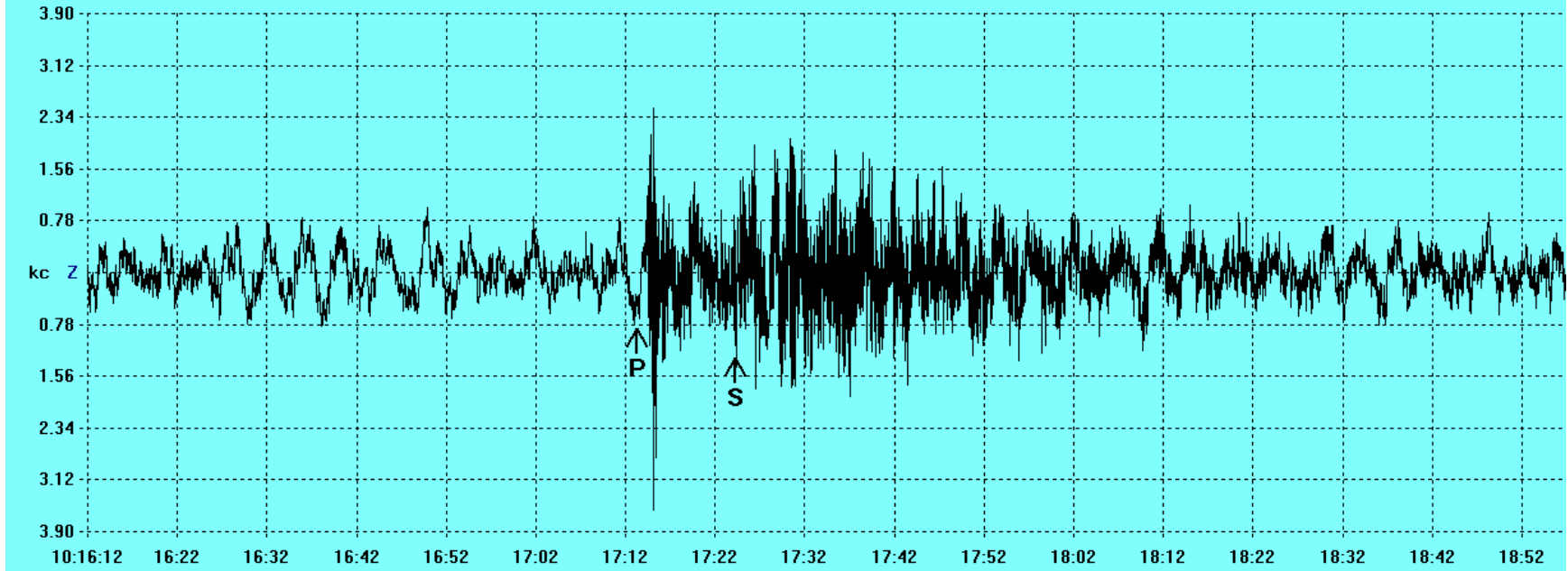
Evento 3

Registro de SANT2:



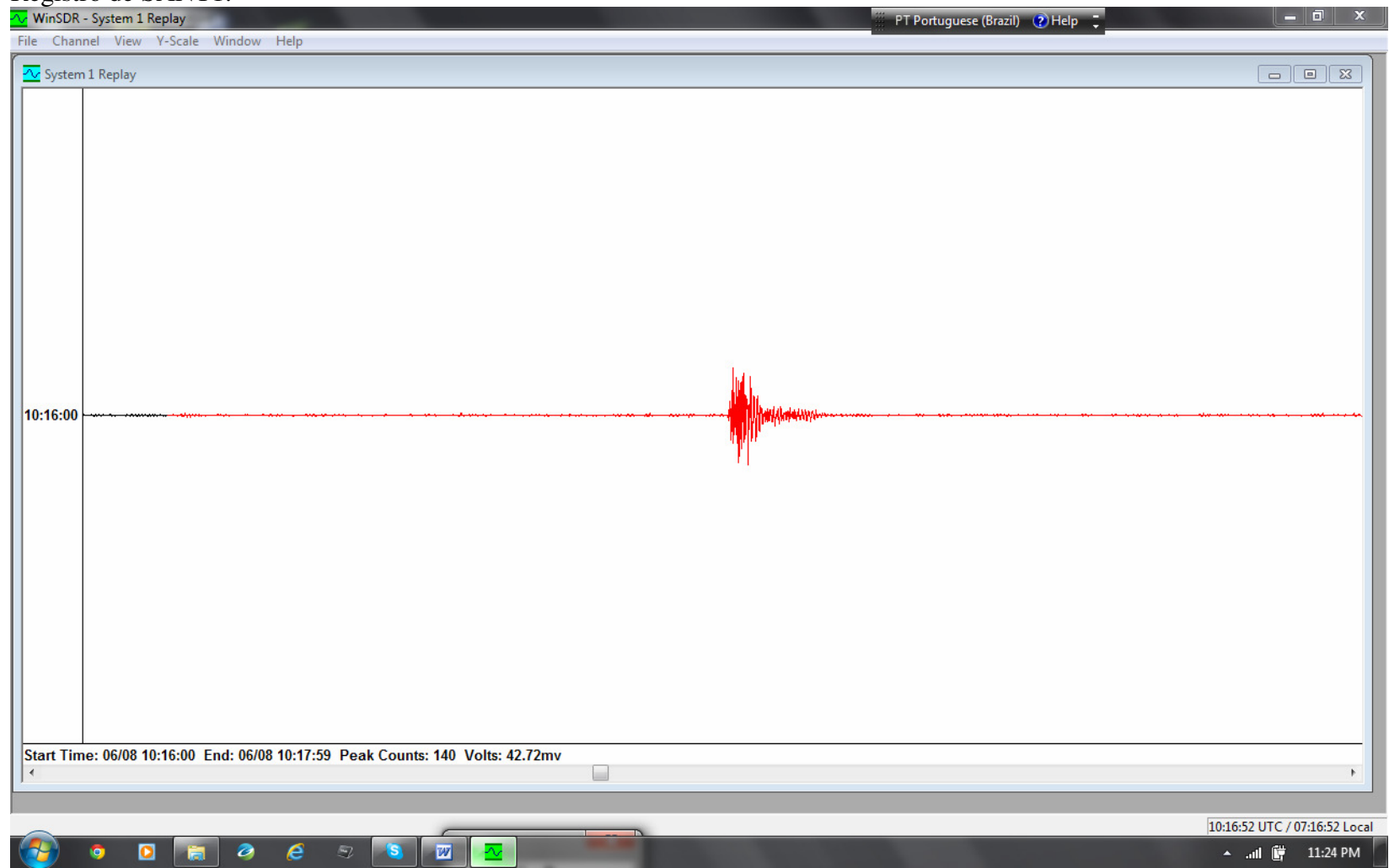
Evento 3

Start: 6/08/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3895/-3574 X: 2.45.0 Y: 3.9kc
Org: 10:16:58.6 P: 10:17:13.3 S: 10:17:24.2 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



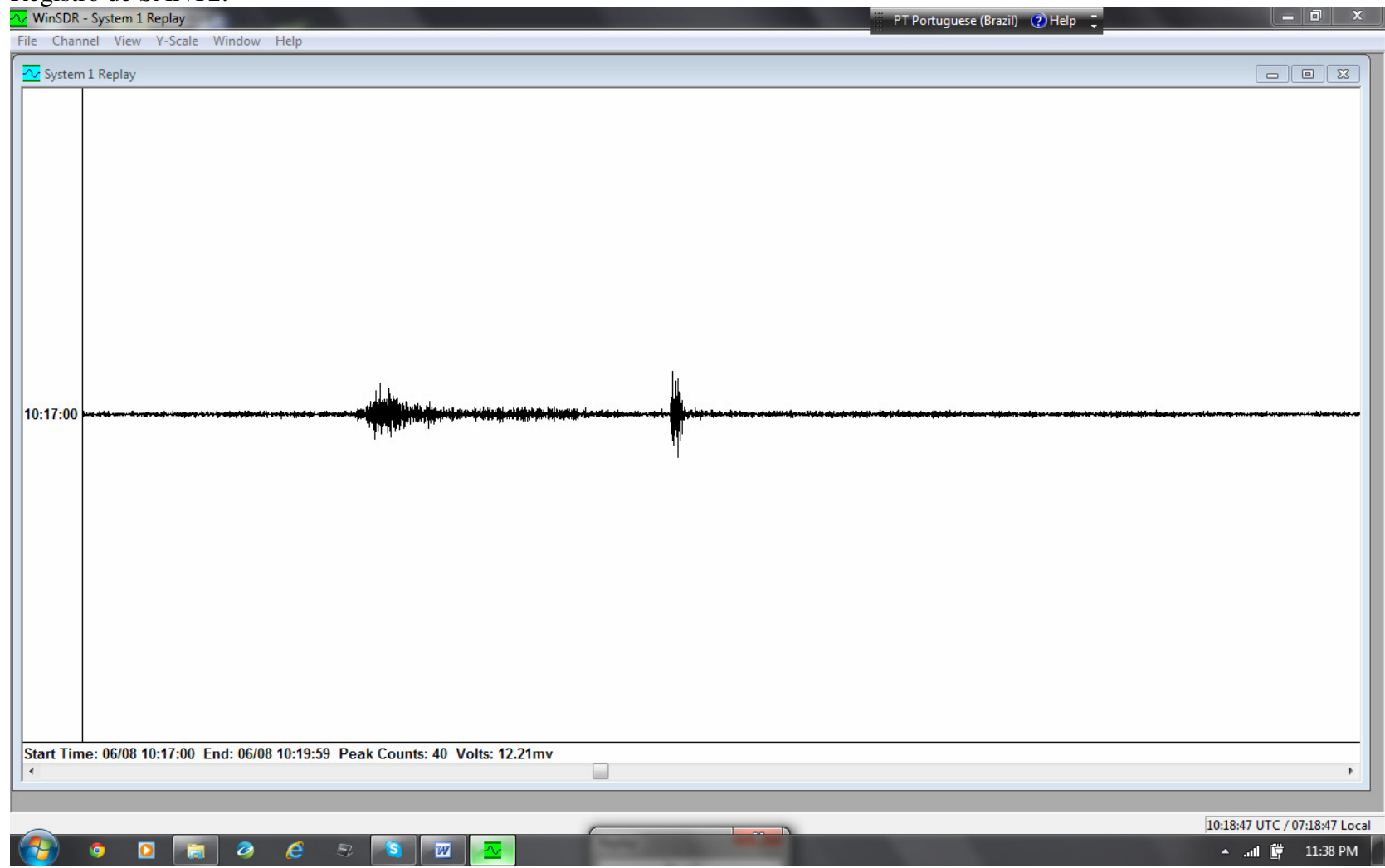
Evento 4

Registro de SANT1:



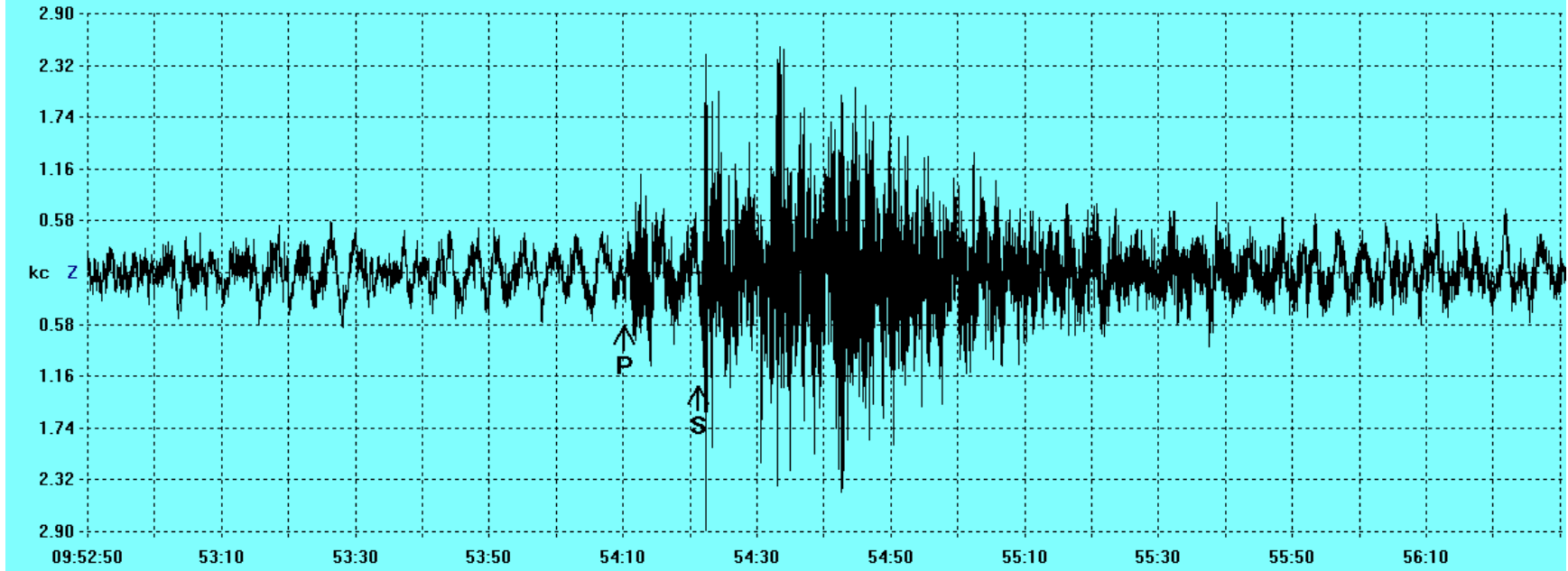
Evento 4

Registro de SANT2:



Evento 4

Start: 6/20/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2524/-2890 X: 3:41.0 Y: 2.9kc
Org: 9:53:55.3 P: 9:54:10.2 S: 9:54:21.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



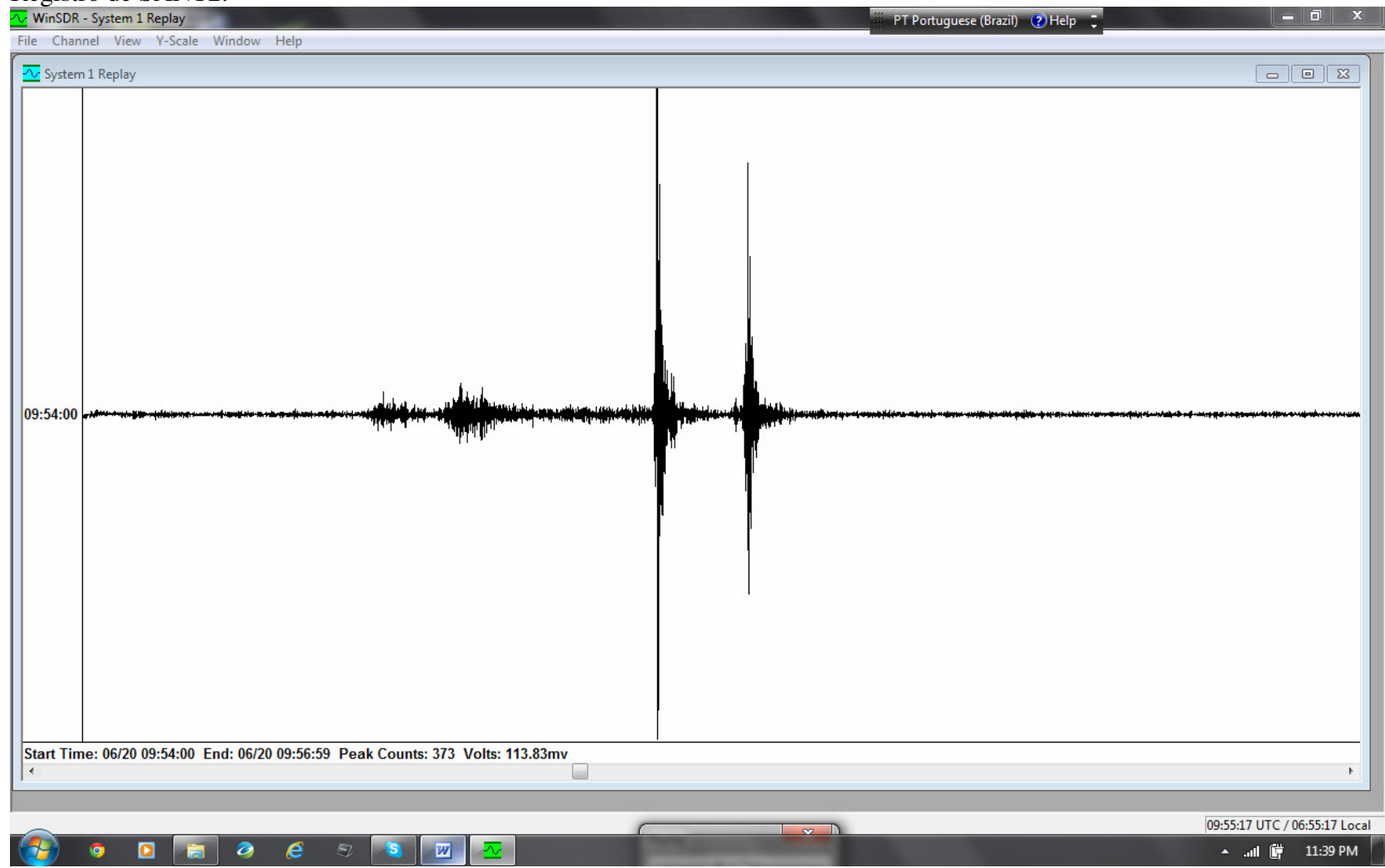
Evento 5

Registro de SANT1:



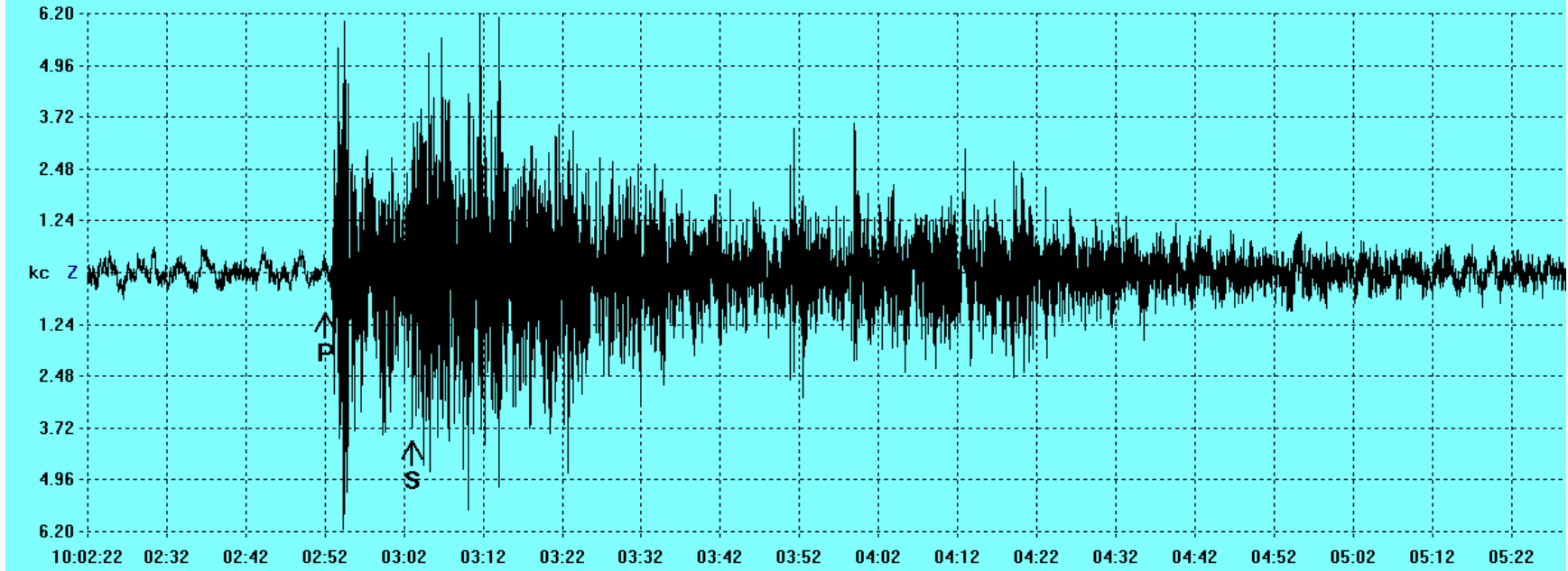
Evento 5

Registro de SANT2:



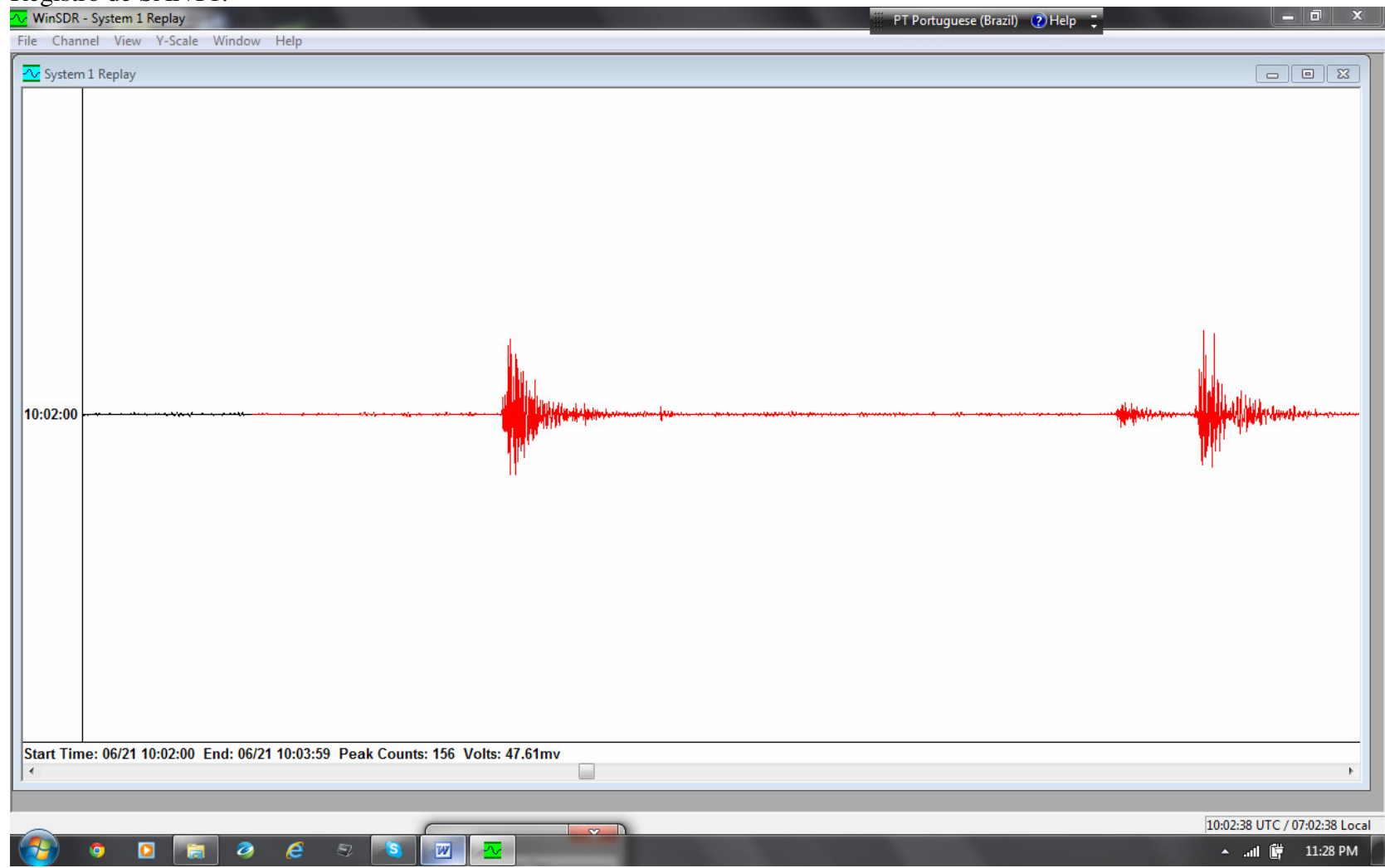
Evento 5

Start: 6/21/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6177/-6153 X: 3:07.0 Y: 6.2kc
Org: 10:02:37.1 P: 10:02:52.0 S: 10:03:03.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



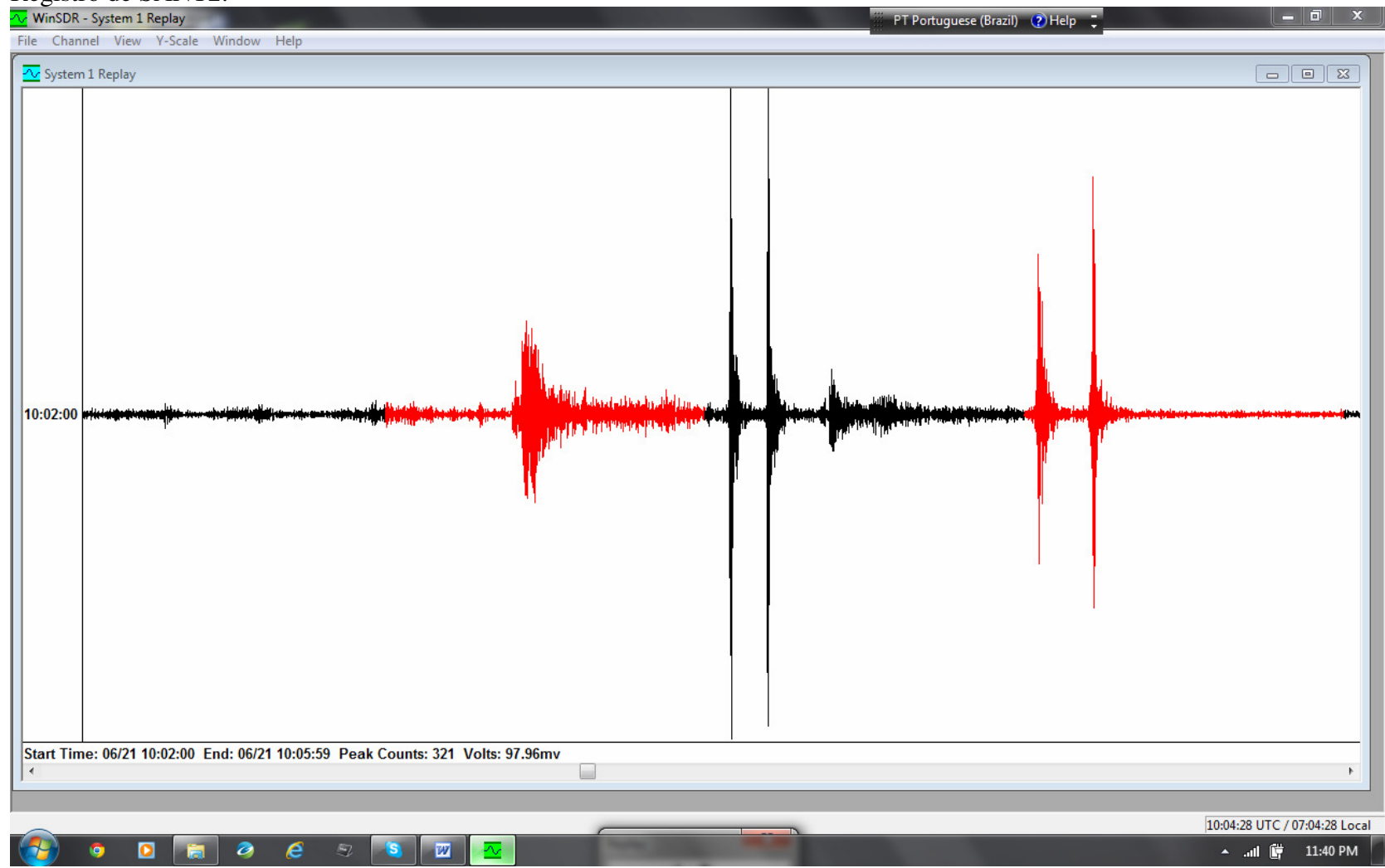
Evento 6

Registro de SANT1:



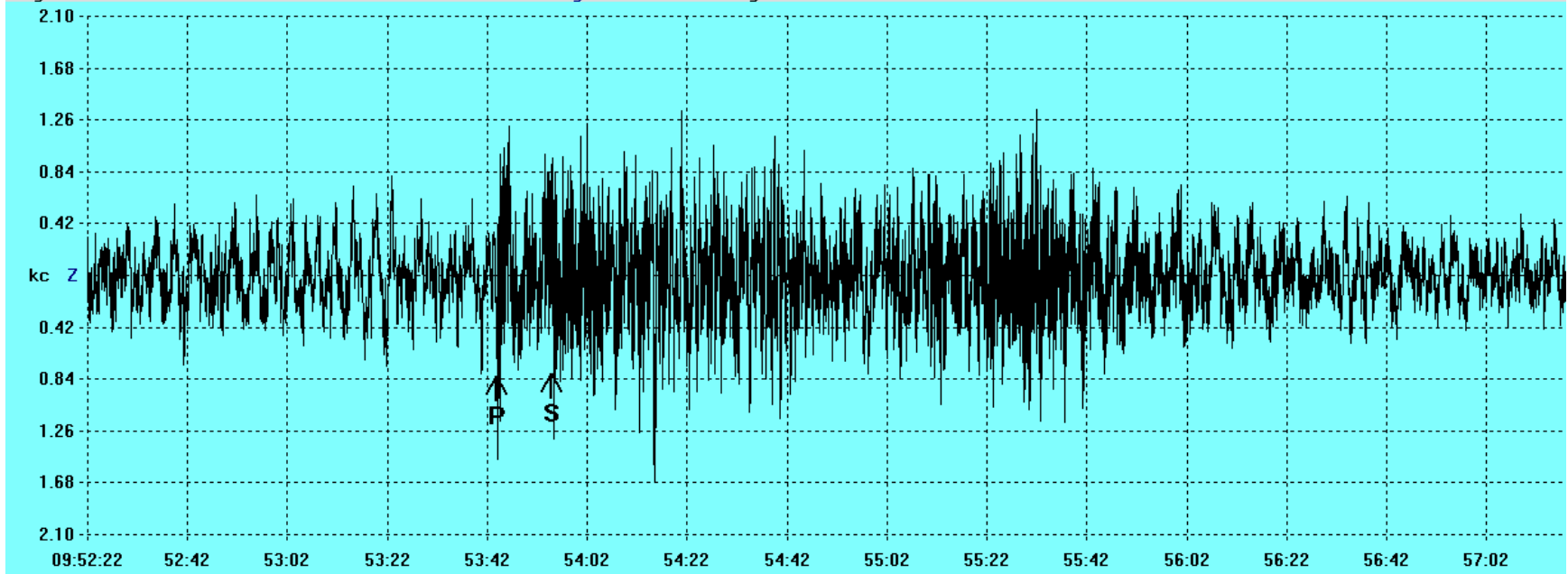
Evento 6

Registro de SANT2:



Evento 6

Start: 6/22/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2078/-1697 X: 4:56.0 Y: 2.1kc
Org: 9:53:28.9 P: 9:53:43.8 S: 9:53:54.8 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



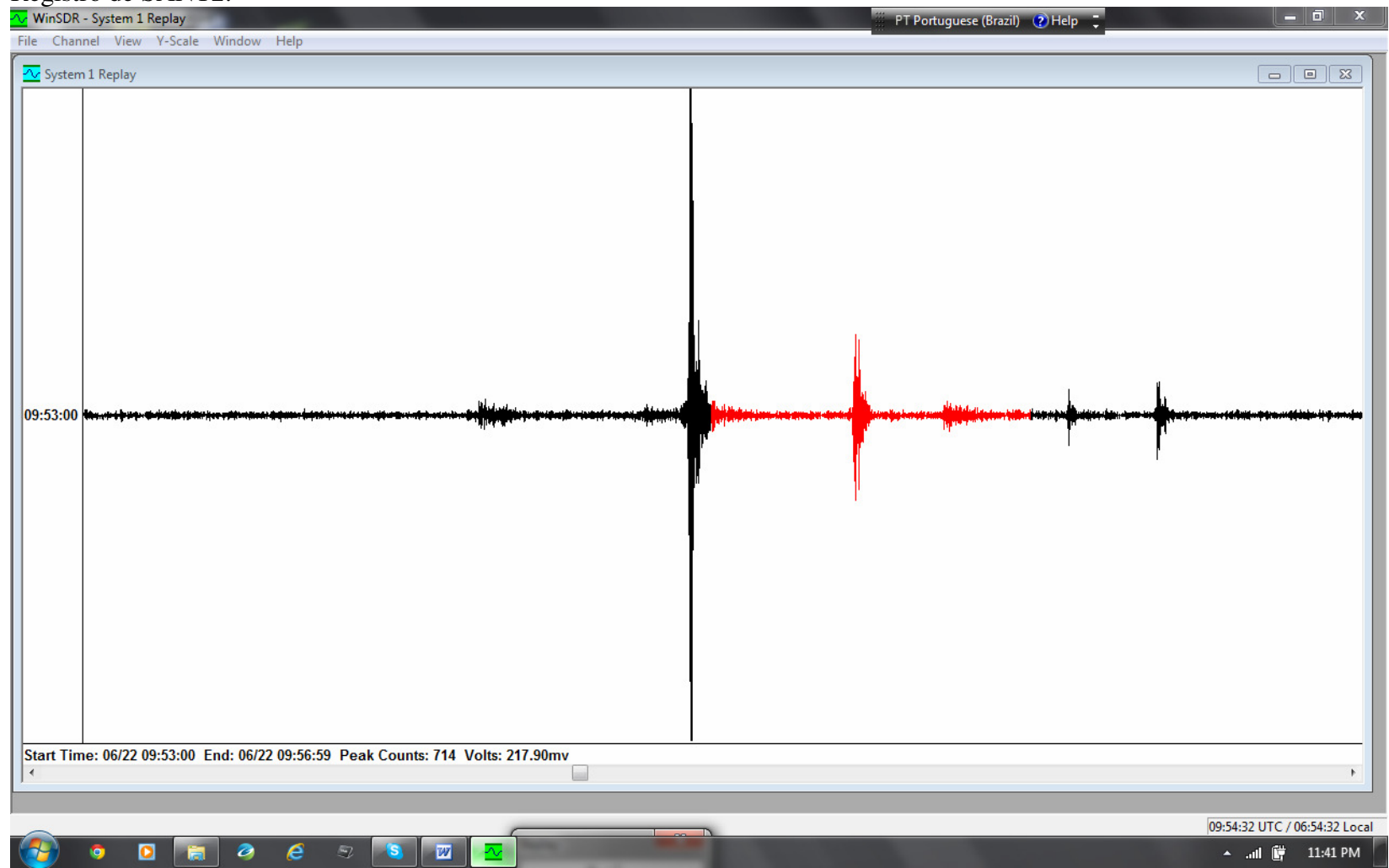
Evento 7

Registro de SANT1:



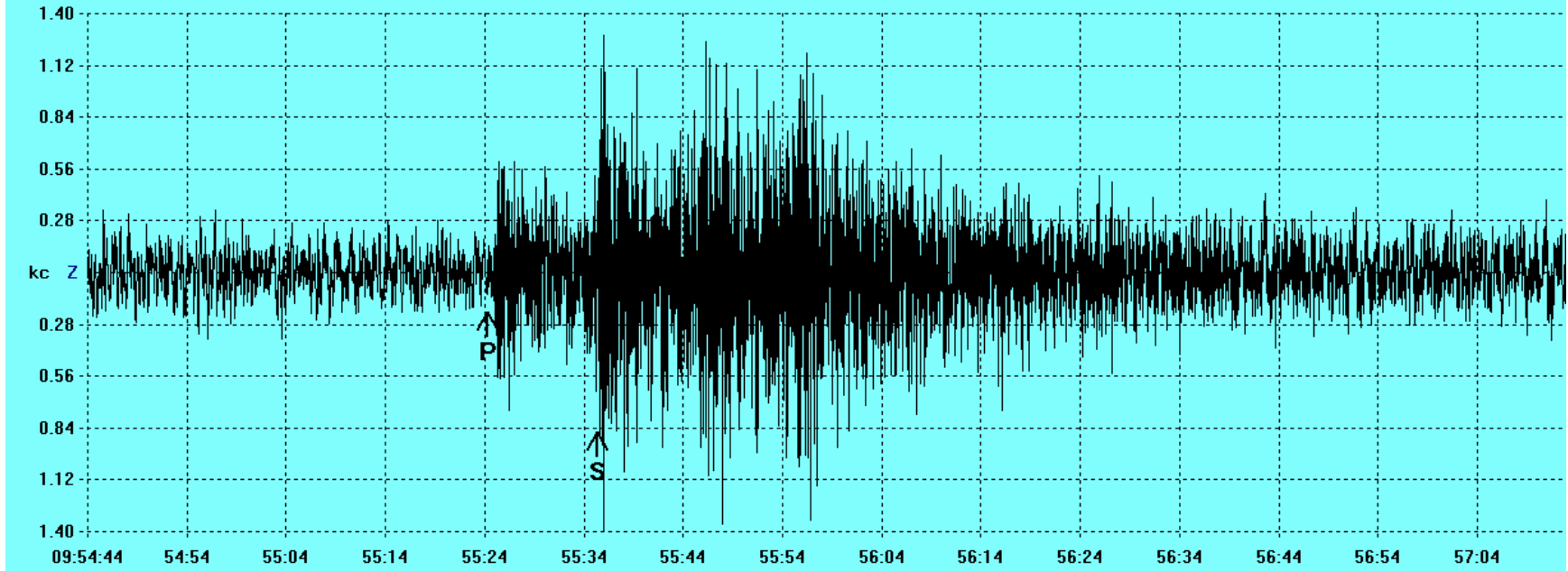
Evento 7

Registro de SANT2:



Evento 7

Start: 6/23/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 1279/-1392 X: 2.29.0 Y: 1.4kc
Org: 9:55:09.4 P: 9:55:24.3 S: 9:55:35.3 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



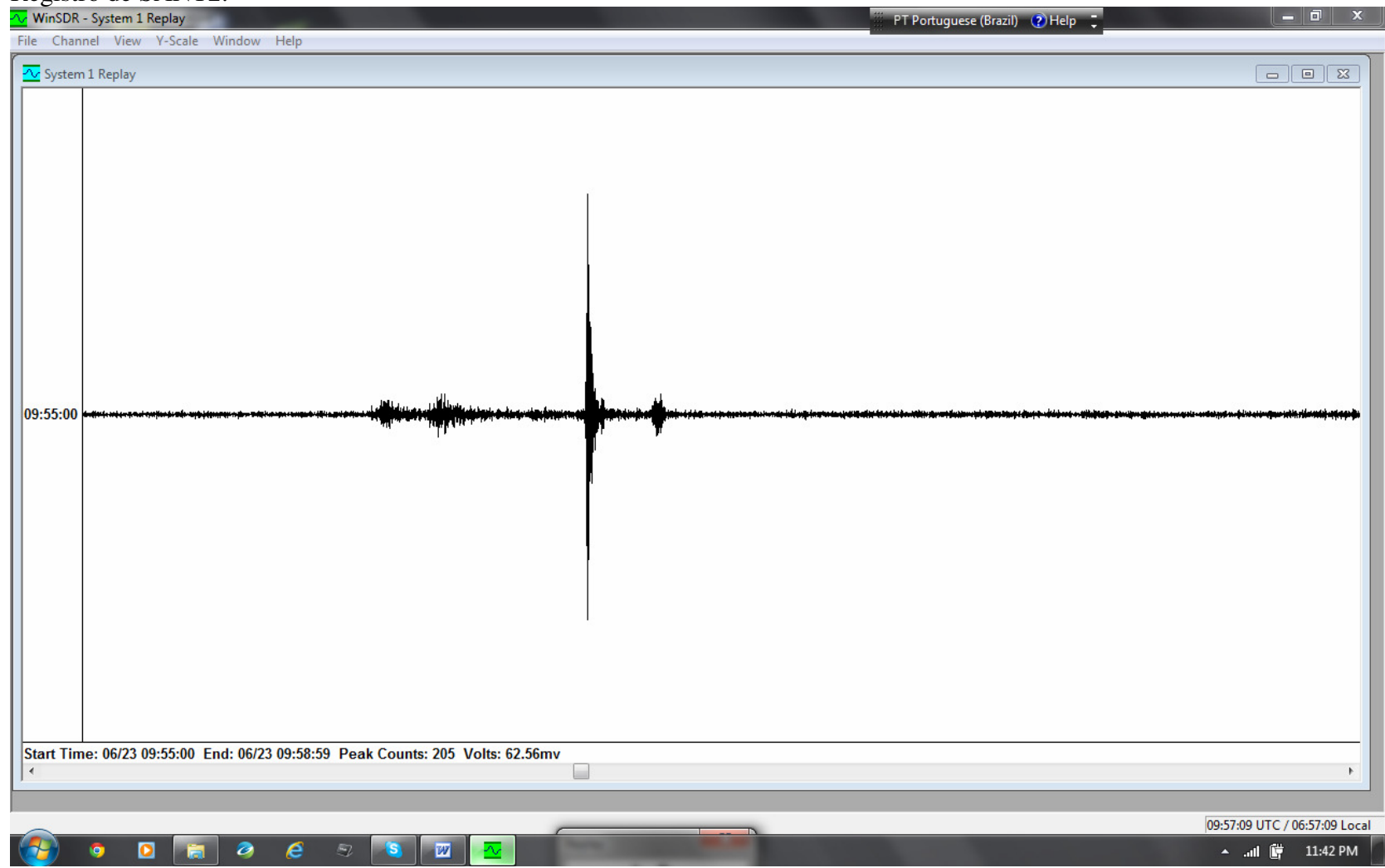
Evento 8

Registro de SANT1:



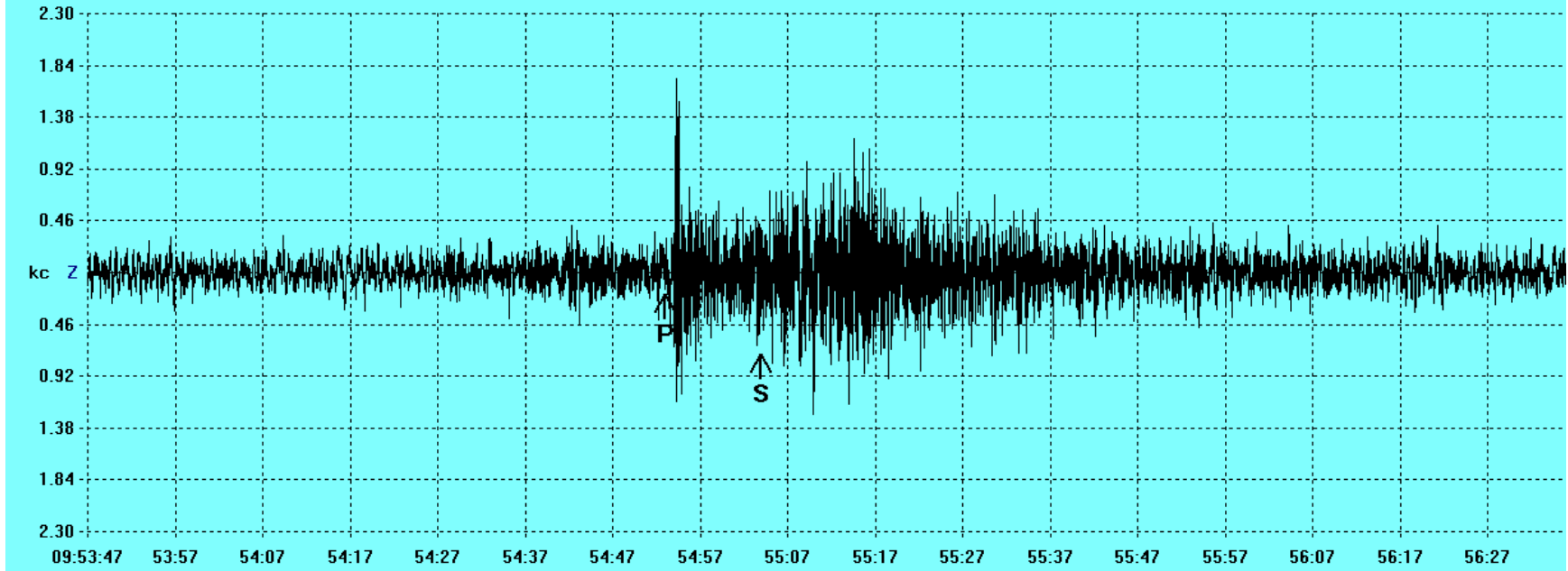
Evento 8

Registro de SANT2:



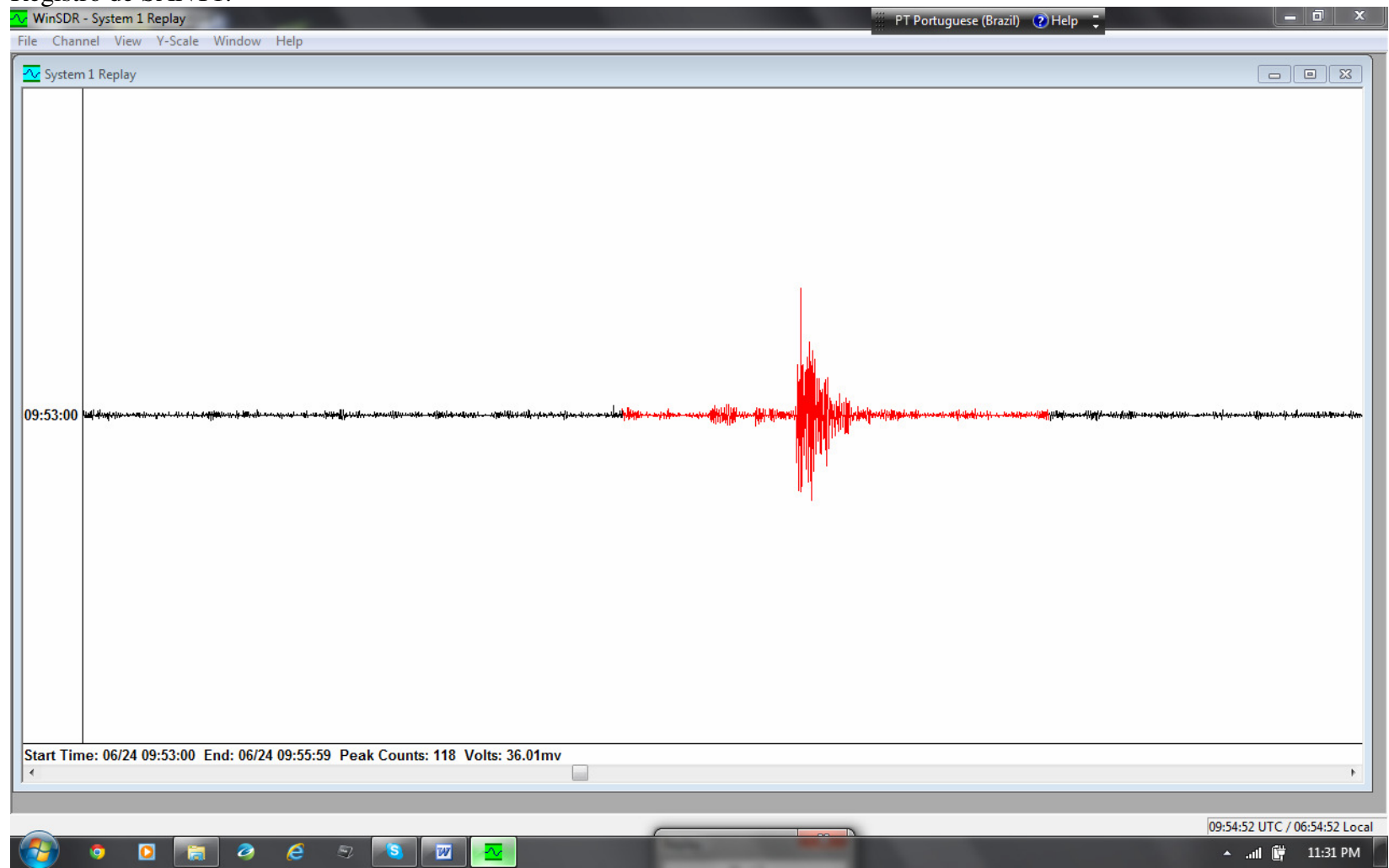
Evento 8

Start: 6/24/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 1725/-2220 X: 2.49.0 Y: 2.3kc
Org: 9:54:38.3 P: 9:54:53.0 S: 9:55:03.9 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



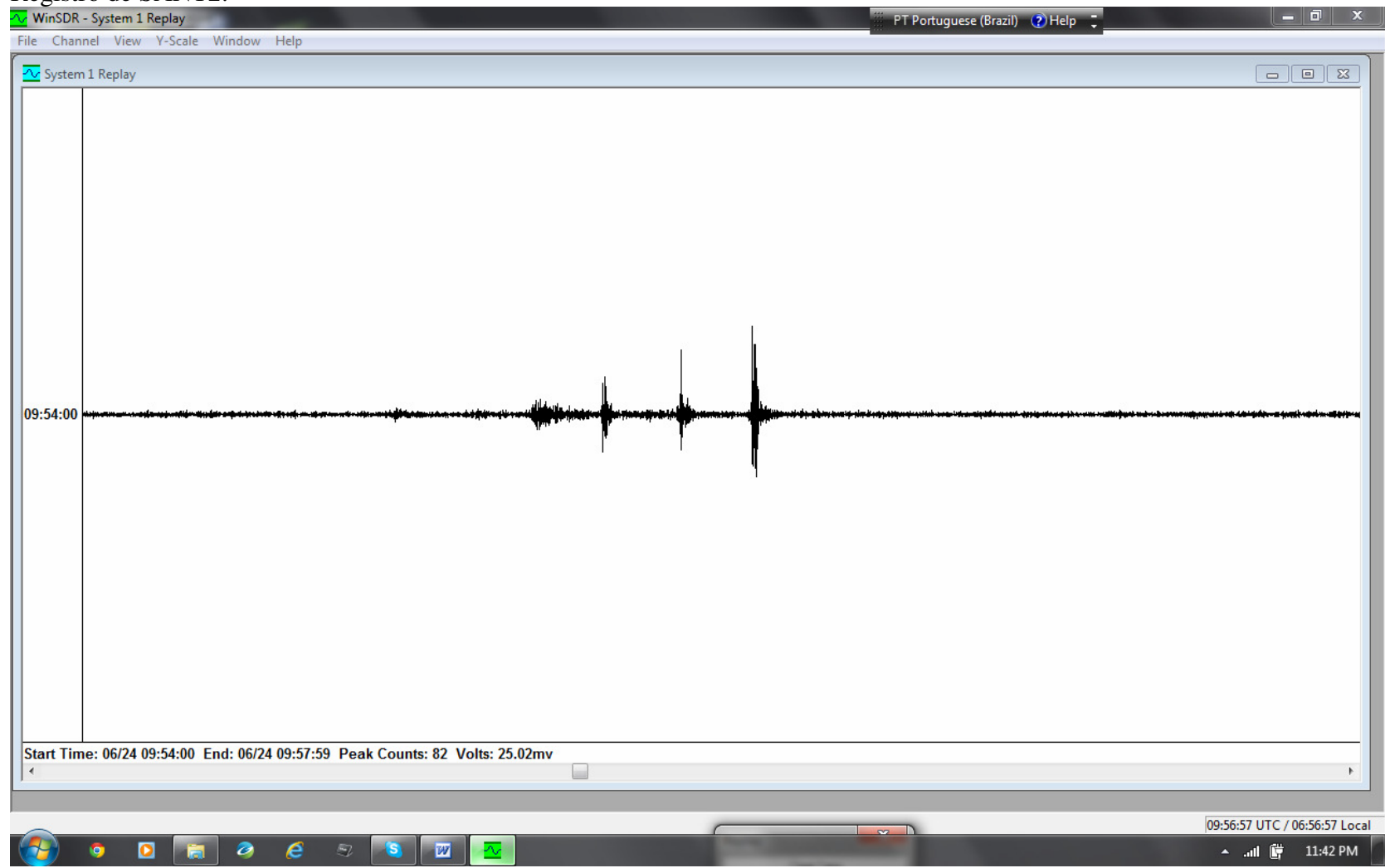
Evento 9

Registro de SANT1:



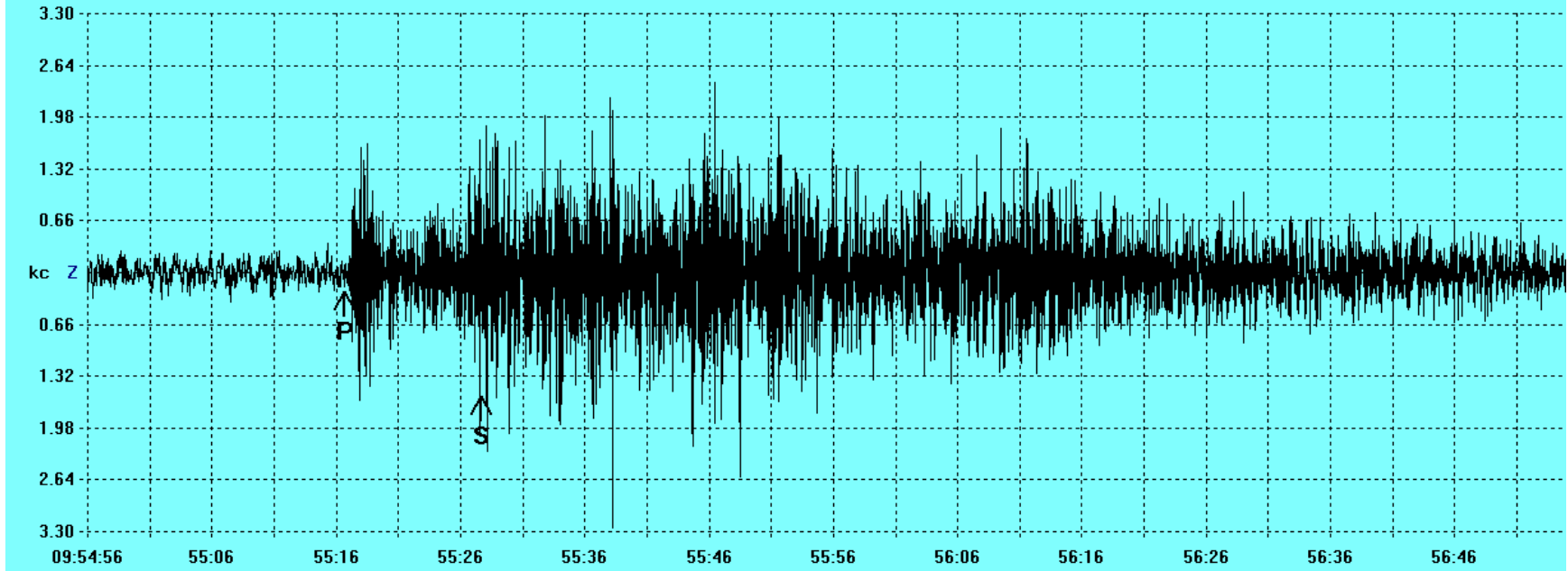
Evento 9

Registro de SANT2:



Evento 9

Start: 6/27/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2421/-3257 X: 1:59.0 Y: 3.3kc
Org: 9:55:01.8 P: 9:55:16.7 S: 9:55:27.7 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



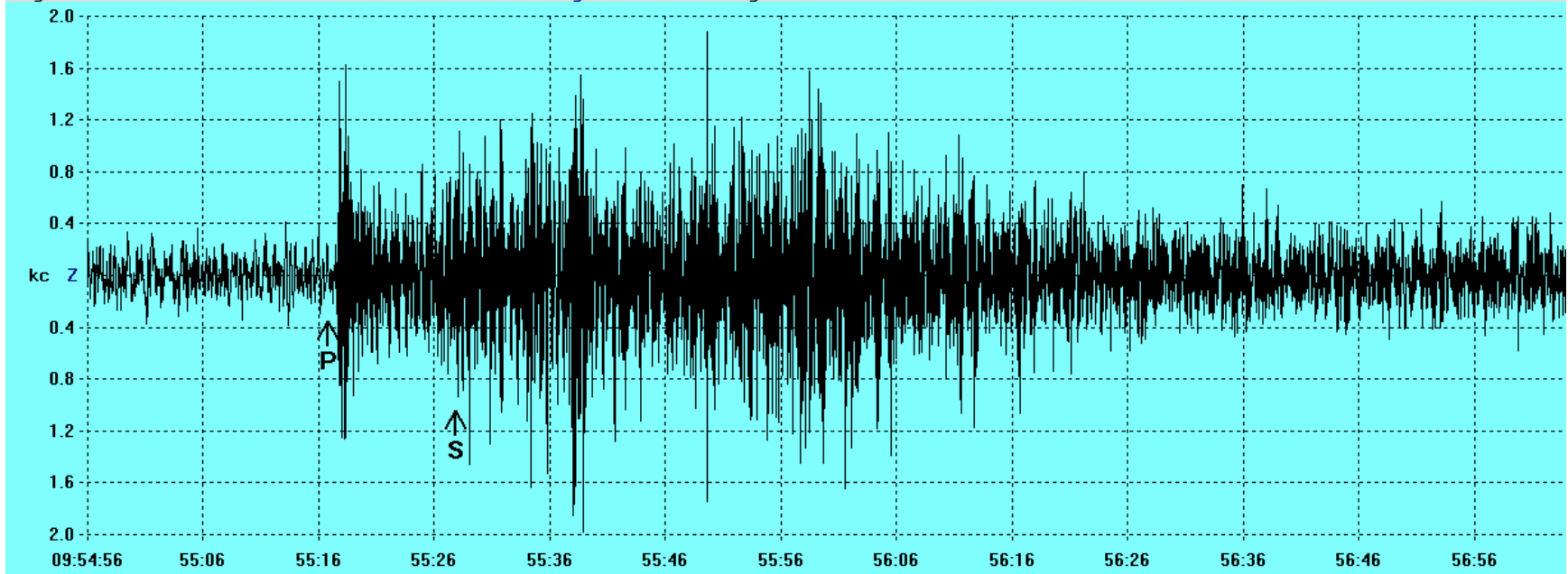
Evento 10 (eventos superpuestos)

Registro de SANT2:



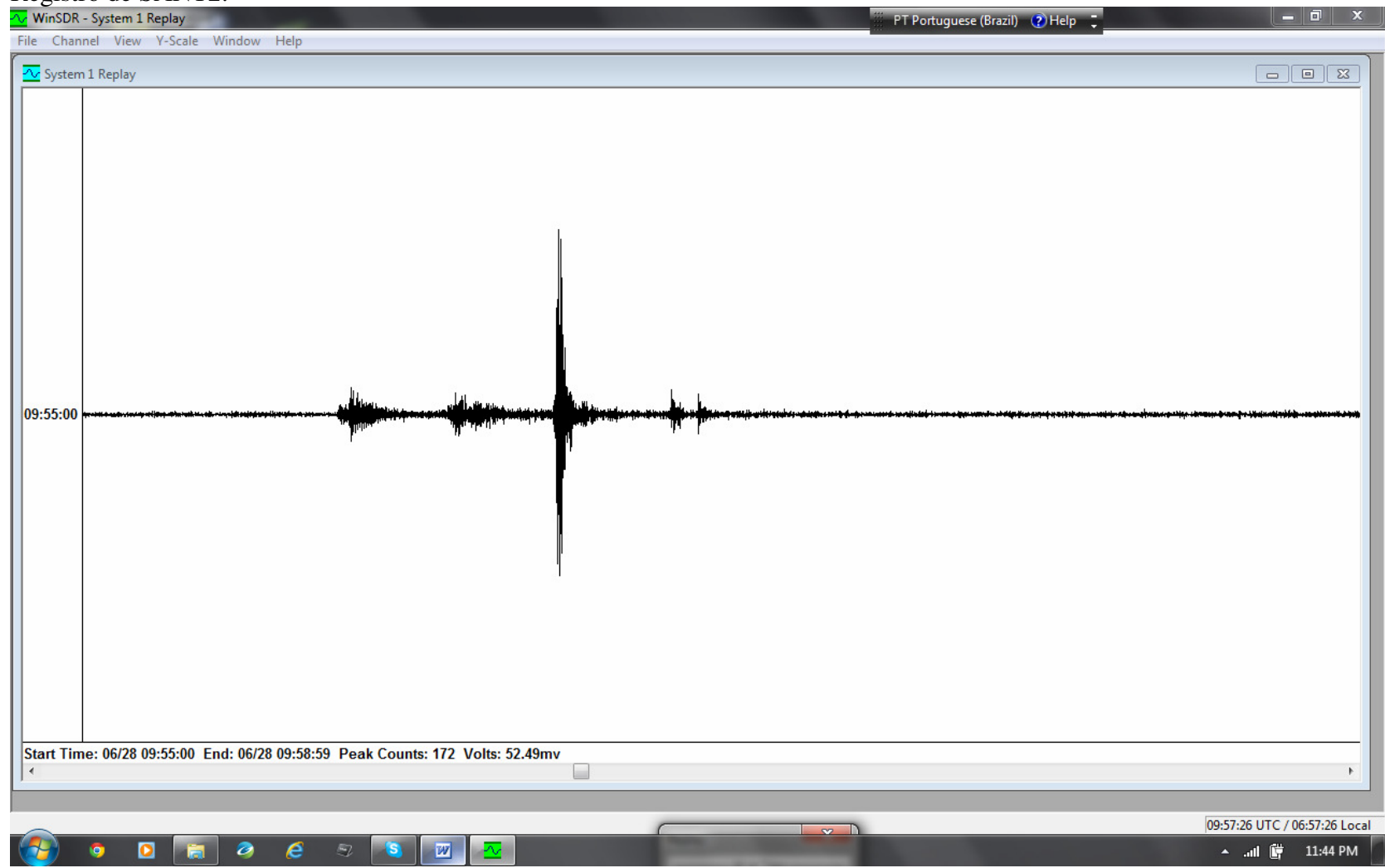
Evento 10

Start: 6/28/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 1881/-1976 X: 2.08.0 Y: 2kc
Org: 9:55:01.9 P: 9:55:16.8 S: 9:55:27.8 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



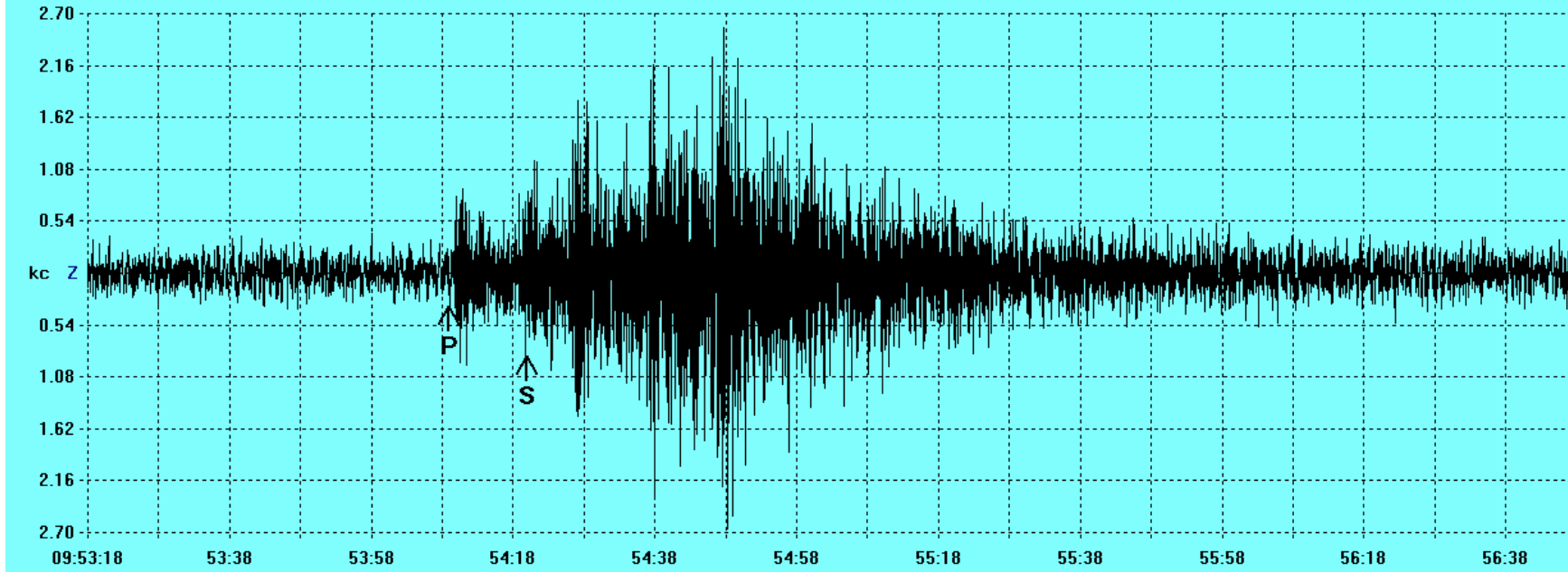
Evento 11 (eventos superpuestos)

Registro de SANT2:



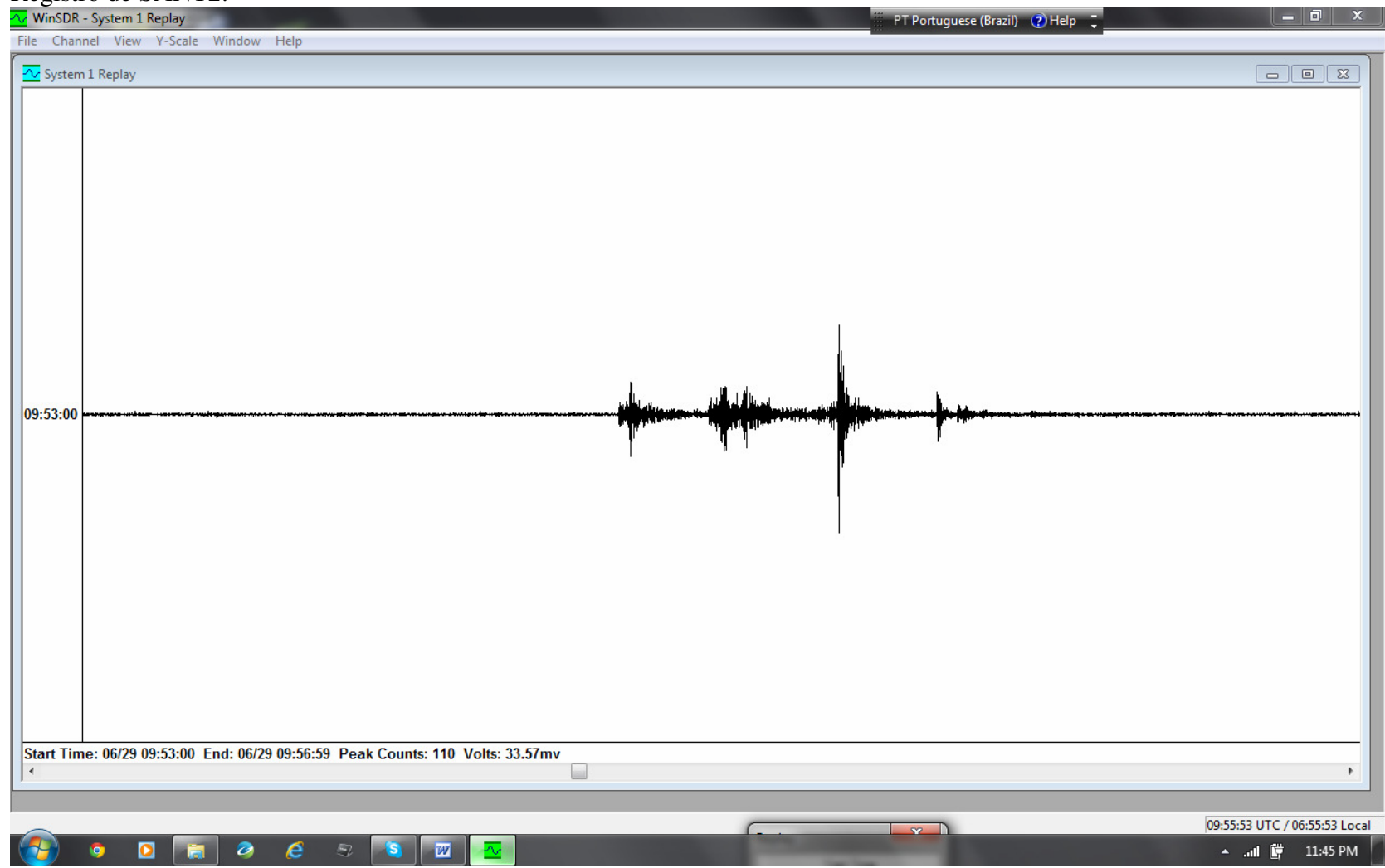
Evento 11

Start: 6/29/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2560/-2653 X: 3:29.0 Y: 2.7kc
Org: 9:53:54.0 P: 9:54:08.9 S: 9:54:19.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 12 (eventos superpuestos)

Registro de SANT2:



Evento 12

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

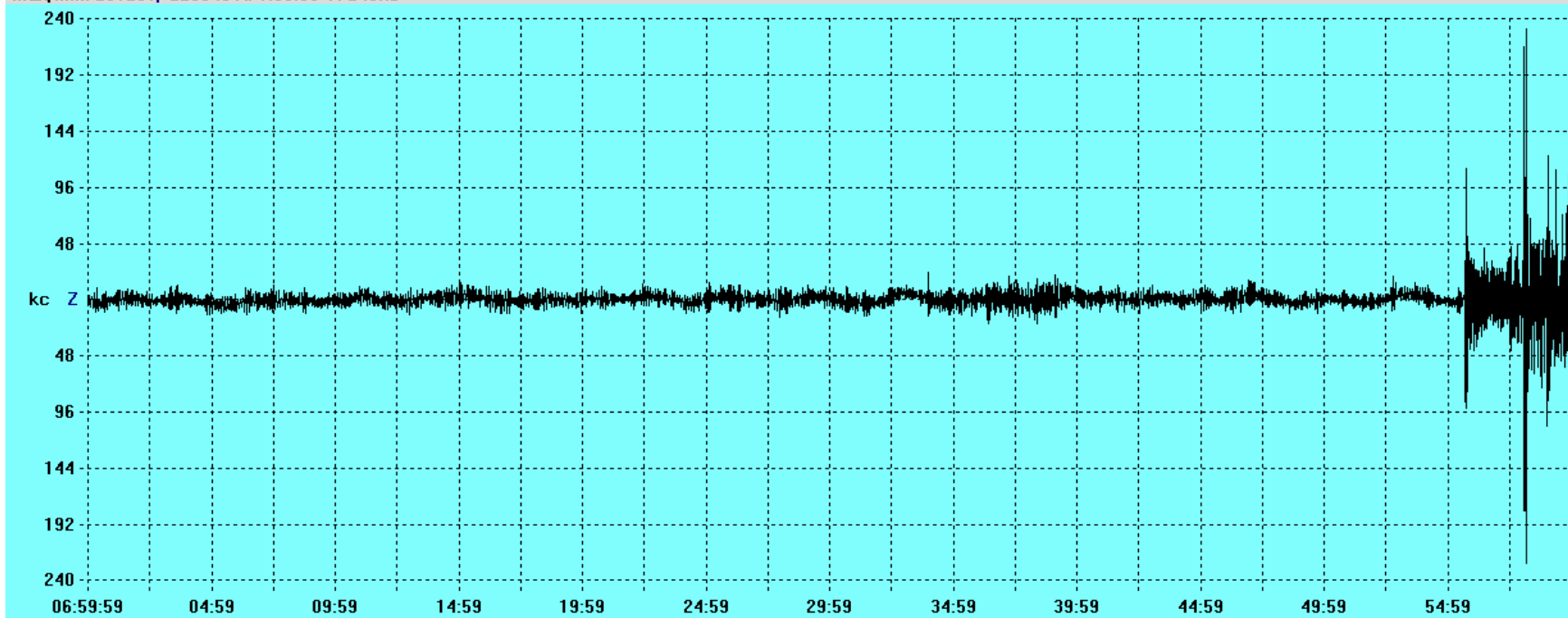
**Junho
2012**

Registros das Estação SAML

O sismograma a seguir não foi filtrado:

Start: 6/02/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 231231/-225543 X: 1:00:00 Y: 240kc

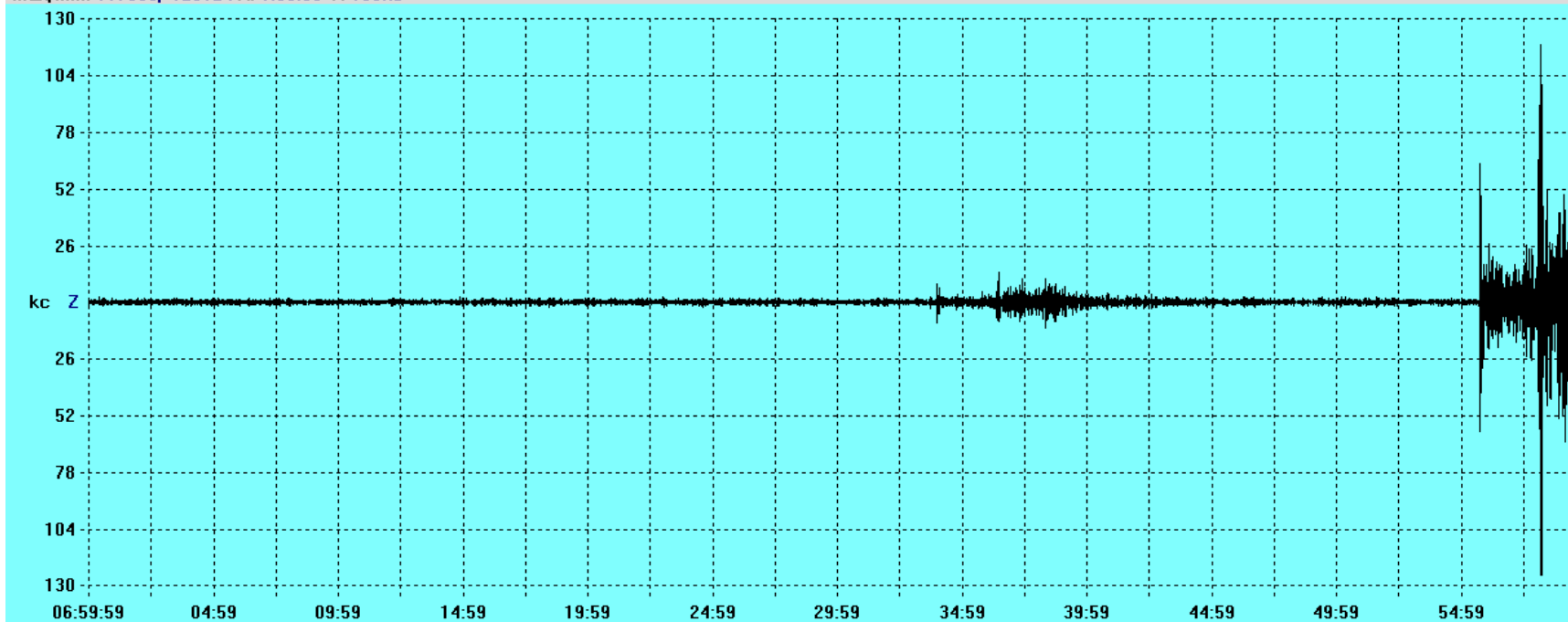


PDE-Q 2012 06 02 075253.99 -22.06 -63.56 527 5.9 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 6/02/12 6:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 117566/-125124 X: 1:00:00 Y: 130kc

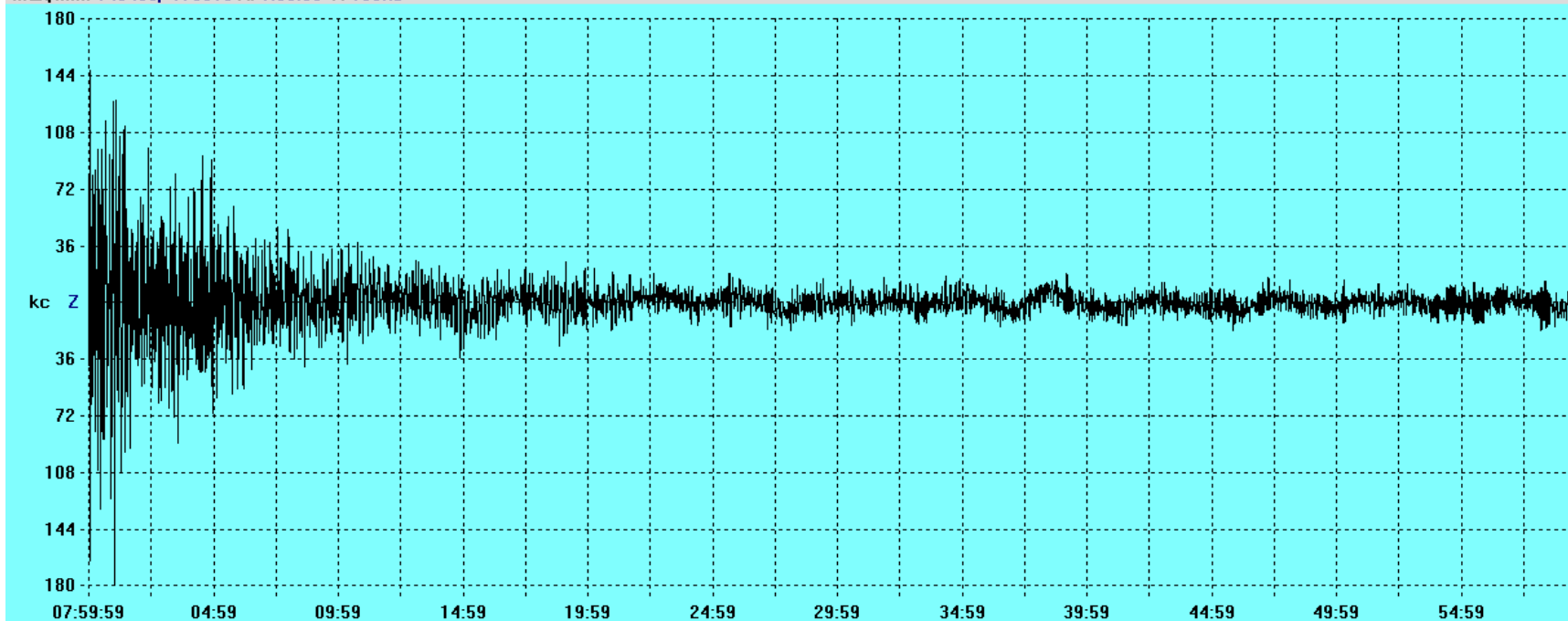


PDE-Q 2012 06 02 075253.99 -22.06 -63.56 527 5.9 MwWCMT

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

Start: 6/02/12 7:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 146430/-178515 X: 1:00:00 Y: 180kc

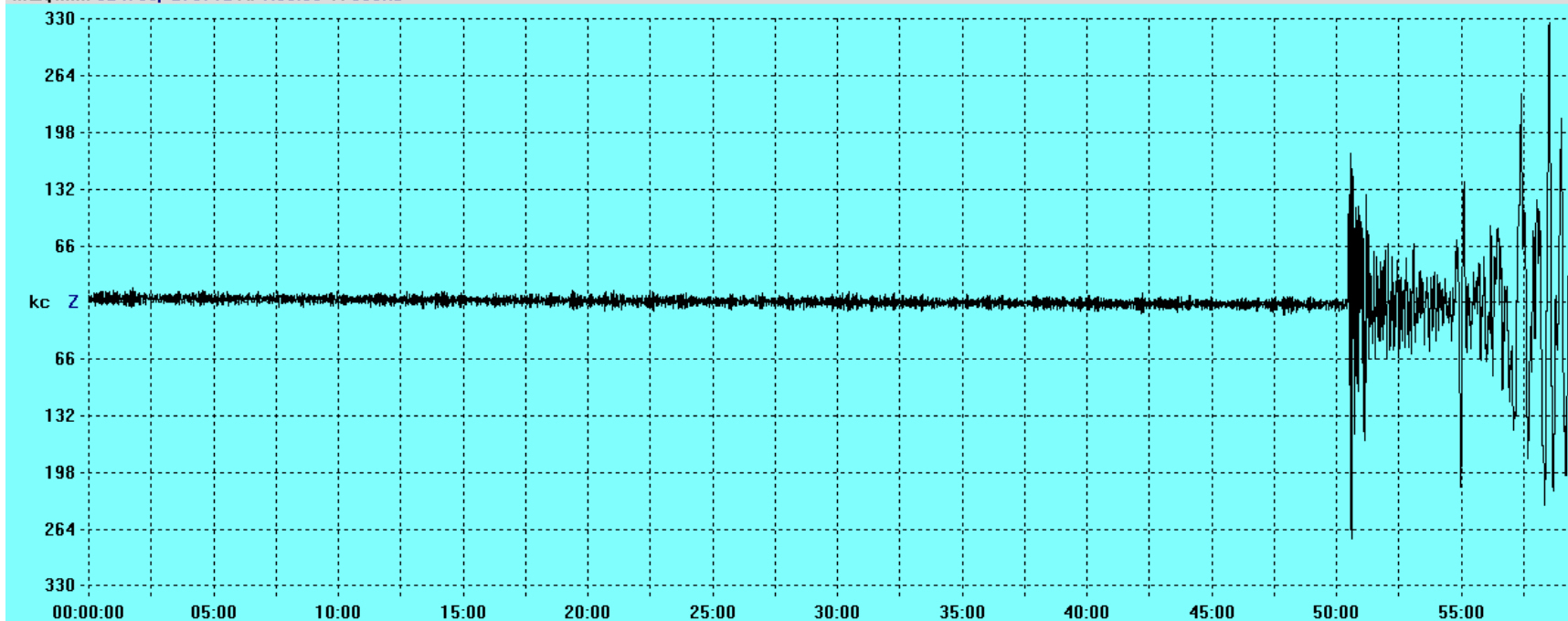


PDE-Q 2012 06 02 075253.99 -22.06 -63.56 527 5.9 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 6/04/12 0:00:00 UTC Station: SAML 8.9489S 63.1831W Samples: 144000 SPS: 39.999999

Max/Min: 324790/-275712 X: 1:00:00 Y: 330kc

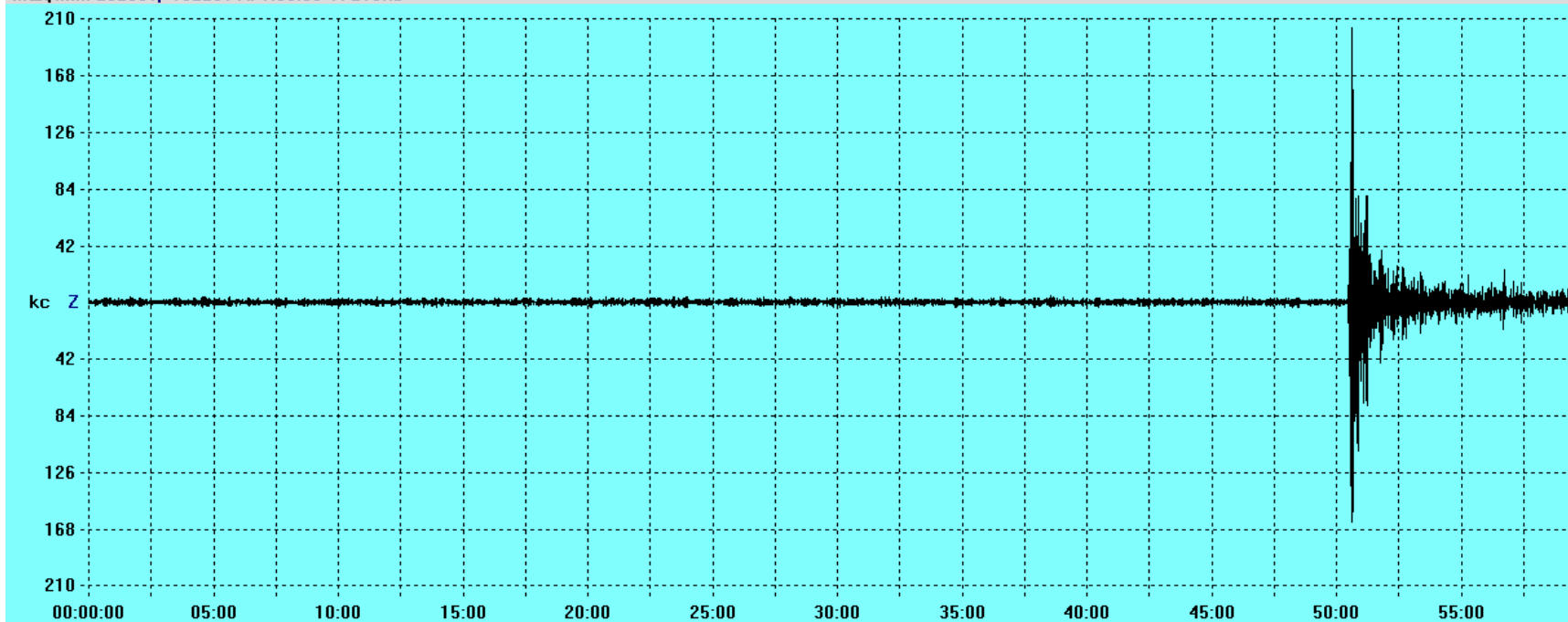


PDE-Q 2012 06 04 004515.30 5.31 -82.63 7 6.3 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 6/04/12 0:00:00 UTC Station: SAML 8.9489S 63.1831W Samples: 144000 SPS: 39.999999

Max/Min: 202891/-162201 X: 1:00:00 Y: 210kc

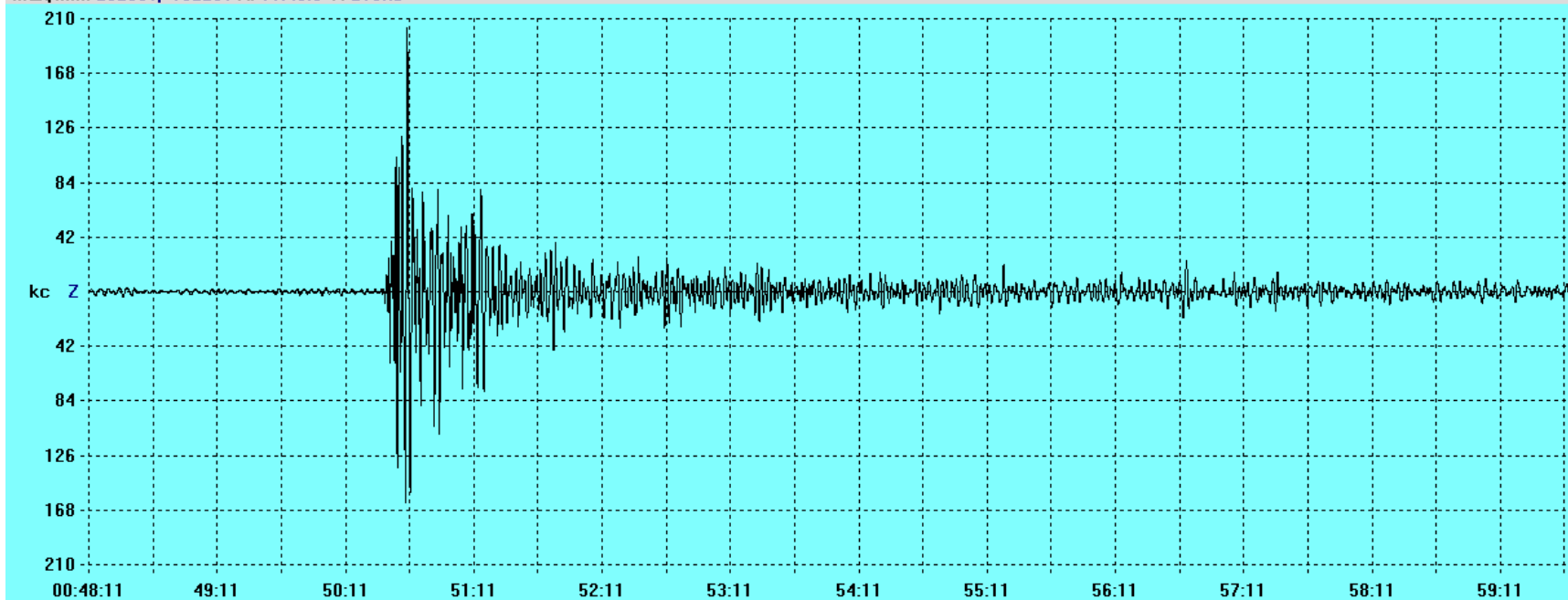


PDE-Q 2012 06 04 004515.30 5.31 -82.63 7 6.3 MwWCMT

Detalhes do sismograma acima:

Start: 6/04/12 0:00:00 UTC Station: SAML 8.9489S 63.1831W Samples: 144000 SPS: 39.999999

Max/Min: 202891/-162201 X: 11:40.0 Y: 210kc

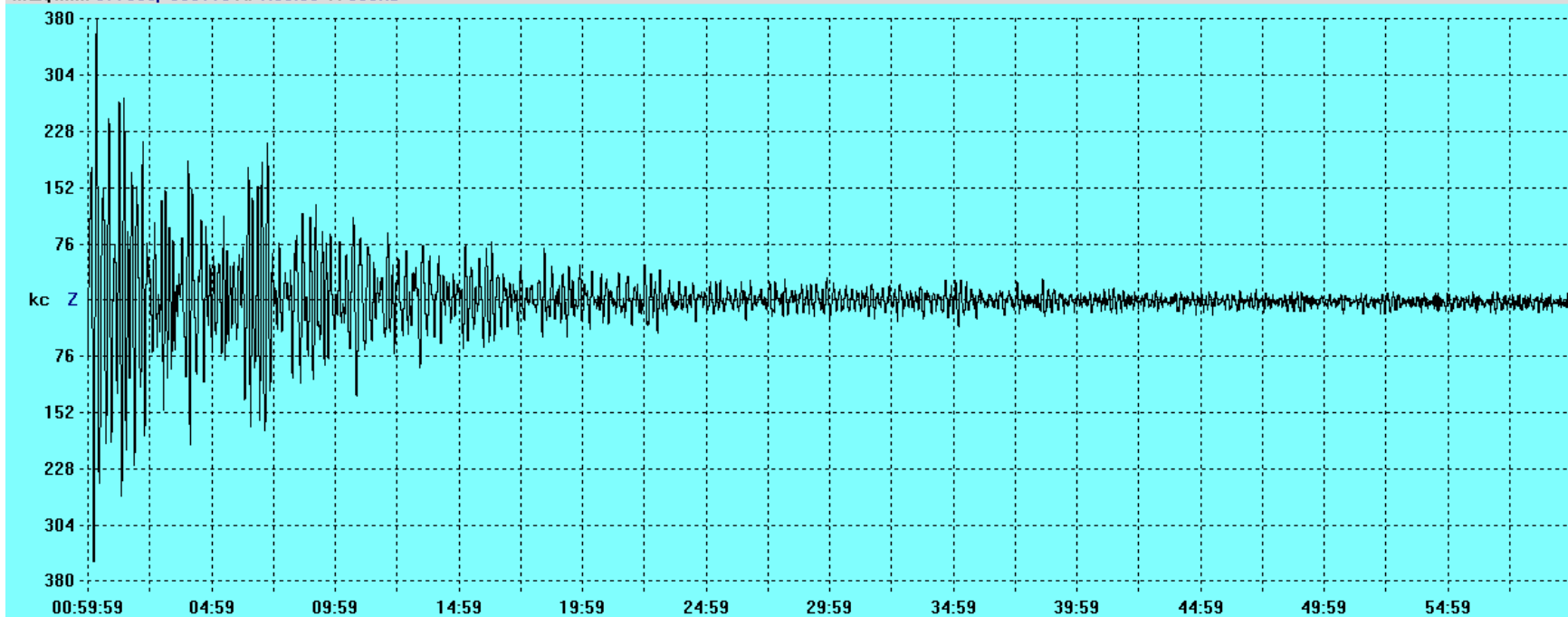


PDE-Q 2012 06 04 004515.30 5.31 -82.63 7 6.3 MwWCMT

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

Start: 6/04/12 0:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 377368/-353118 X: 1:00:00 Y: 380kc

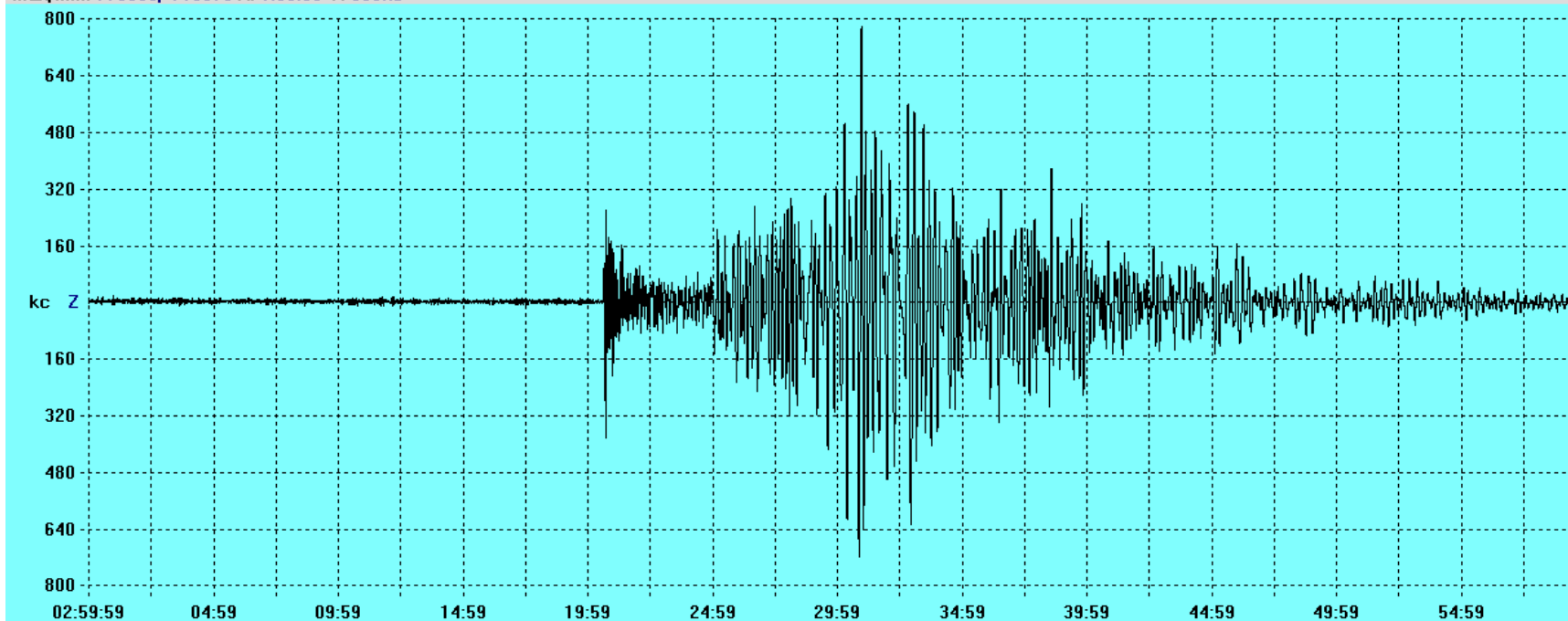


PDE-Q 2012 06 04 004515.30 5.31 -82.63 7 6.3 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 6/04/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 775599/-716579 X: 1:00:00 Y: 800kc

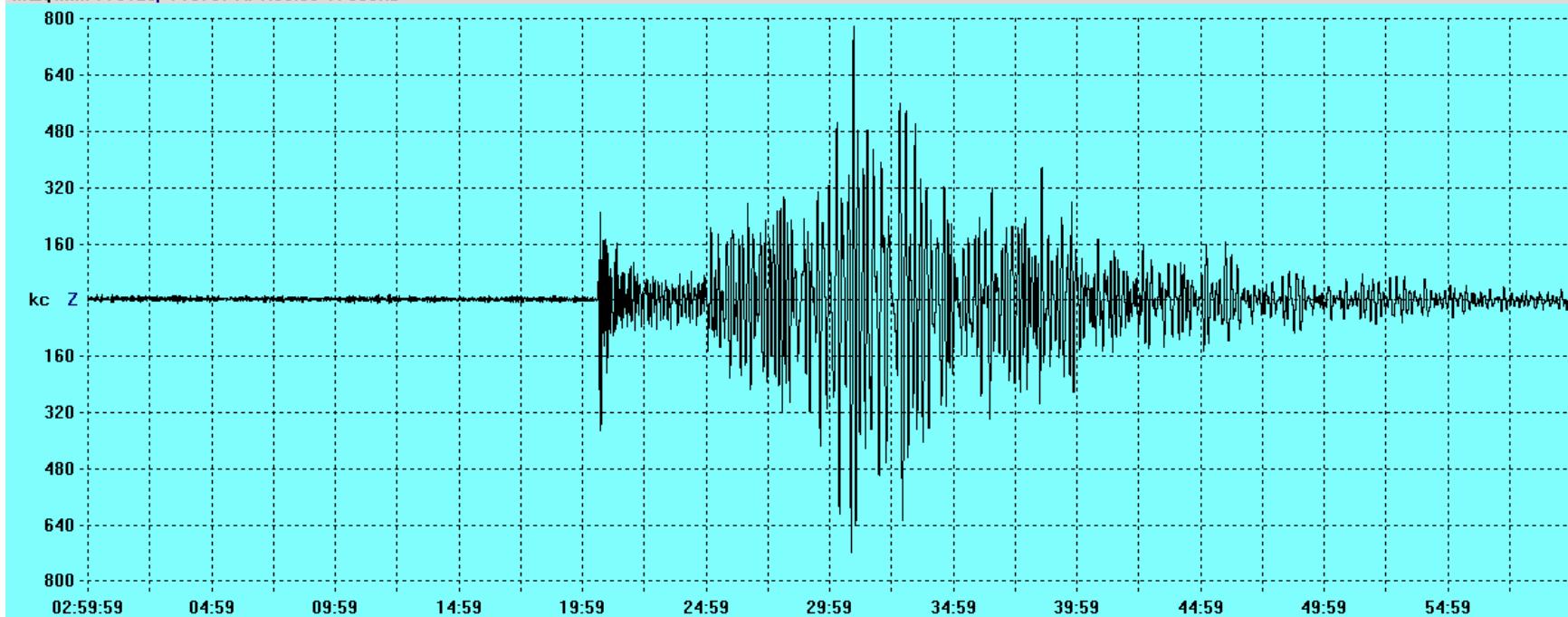


PDE-Q 2012 06 04 031524.53 5.51 -82.46 5 6.3 MwWCMT

Versão filtrada (low-pass) do sismograma acima:

Start: 6/04/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 775126/-716767 X: 1:00:00 Y: 800kc

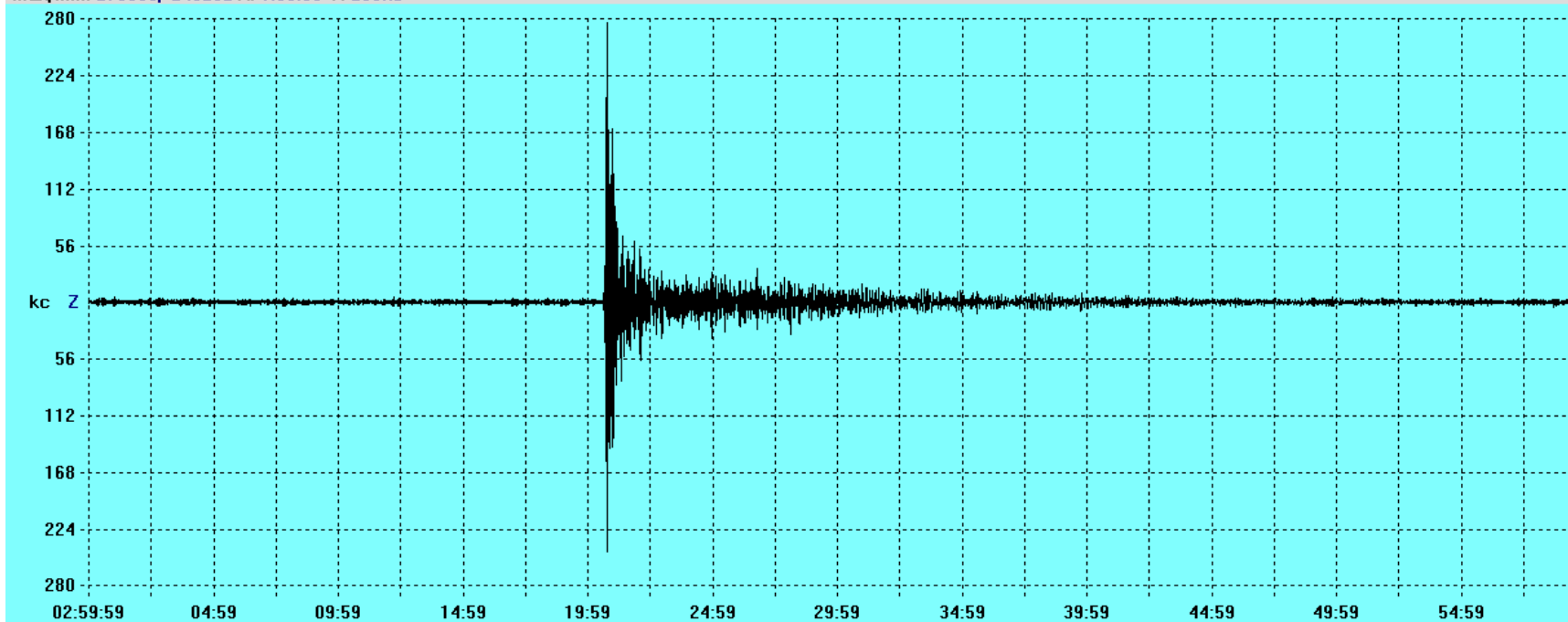


PDE-Q 2012 06 04 031524.53 5.51 -82.46 5 6.3 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 6/04/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 275398/-246252 X: 1:00:00 Y: 280kc

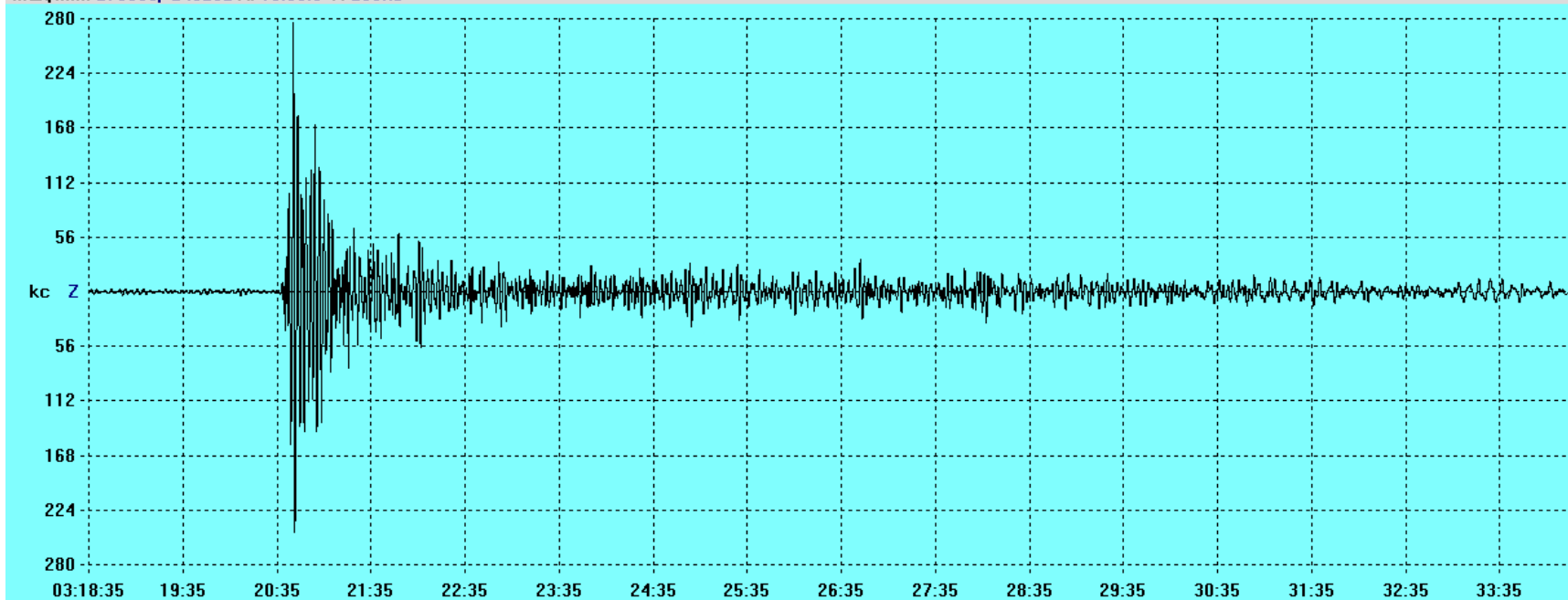


PDE-Q 2012 06 04 031524.53 5.51 -82.46 5 6.3 MwWCMT

Detalhes do sismograma acima:

Start: 6/04/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 275398/-246252 X: 15:55.0 Y: 280kc

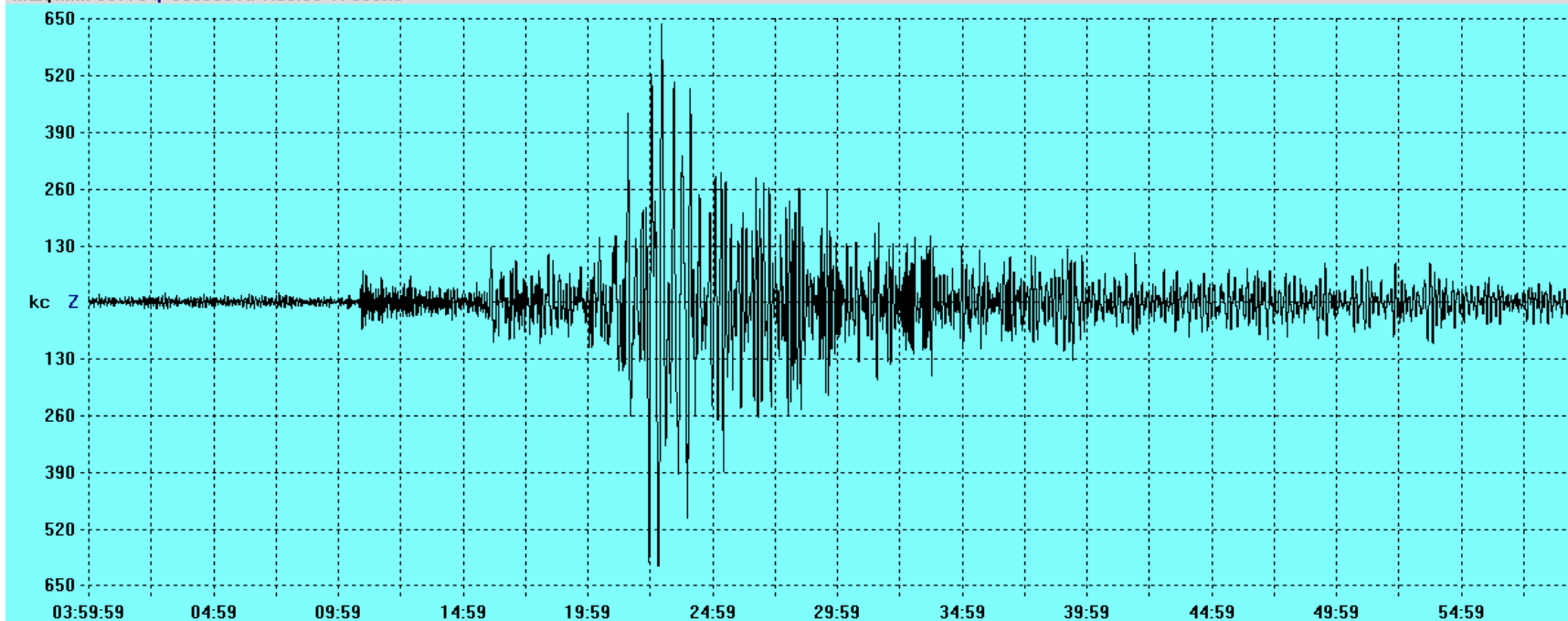


PDE-Q 2012 06 04 031524.53 5.51 -82.46 5 6.3 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 6/07/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 637764/-603938 X: 1:00:00 Y: 650kc

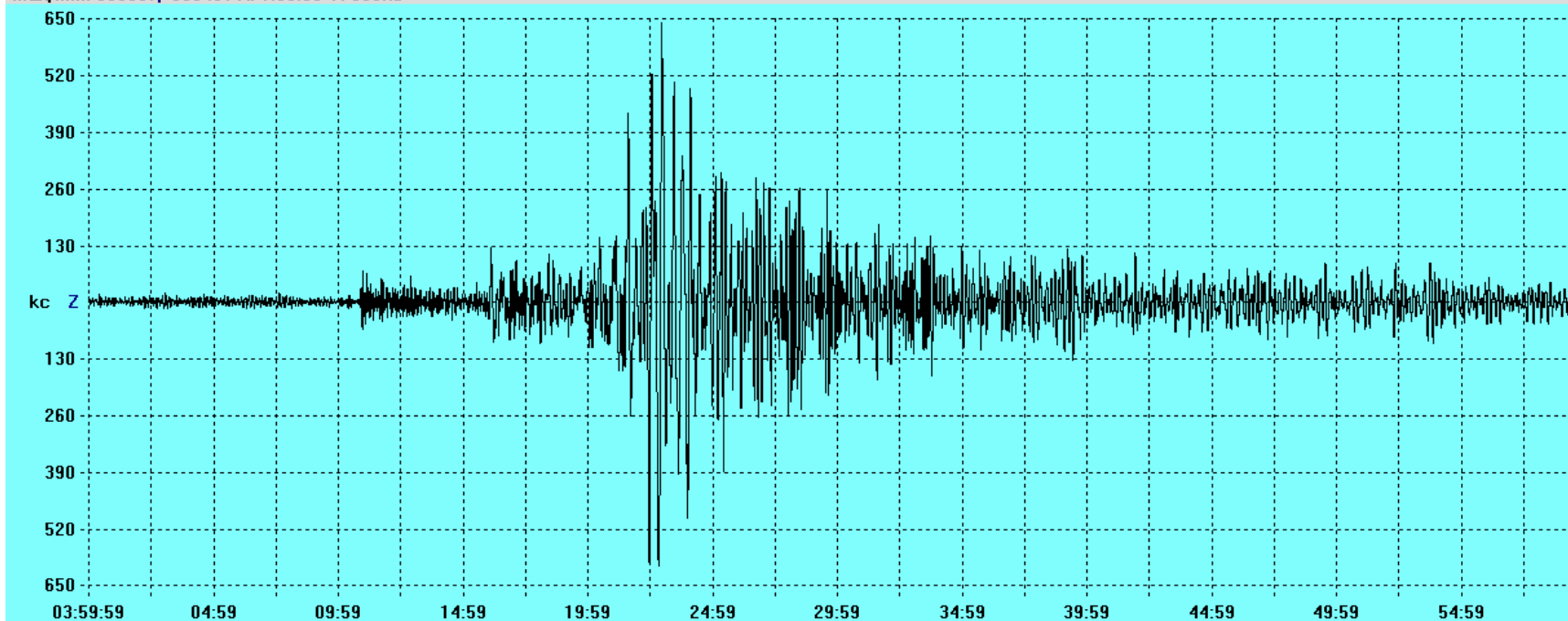


PDE-Q 2012 06 07 040505.15 -35.99 -70.77 7 6.0 MwWCMT

Versão filtrada (low-pass) do sismograma acima:

Start: 6/07/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 638837/-603491 X: 1:00:00 Y: 650kc

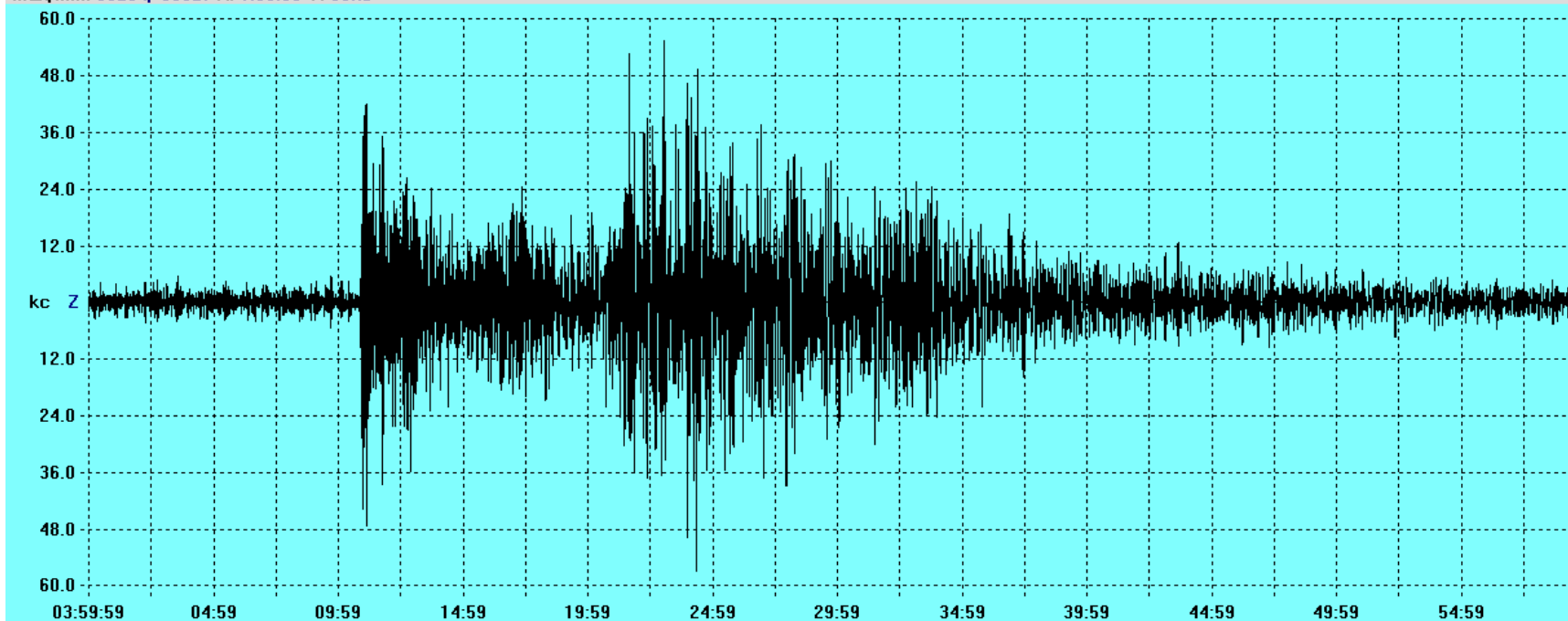


PDE-Q 2012 06 07 040505.15 -35.99 -70.77 7 6.0 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 6/07/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 55234/-56827 X: 1:00:00 Y: 60kc

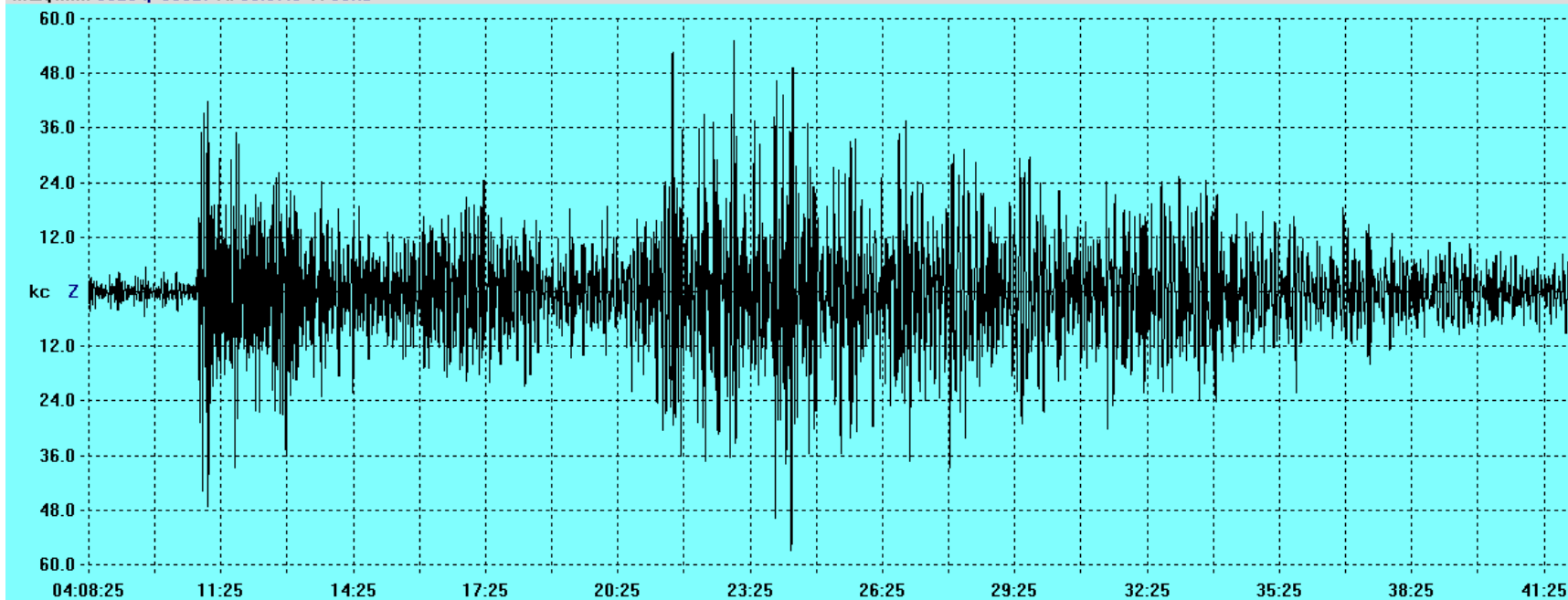


PDE-Q 2012 06 07 040505.15 -35.99 -70.77 7 6.0 MwWCMT

Detalhes do sismograma acima:

Start: 6/07/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 55234/-56827 X: 33:57.0 Y: 60kc

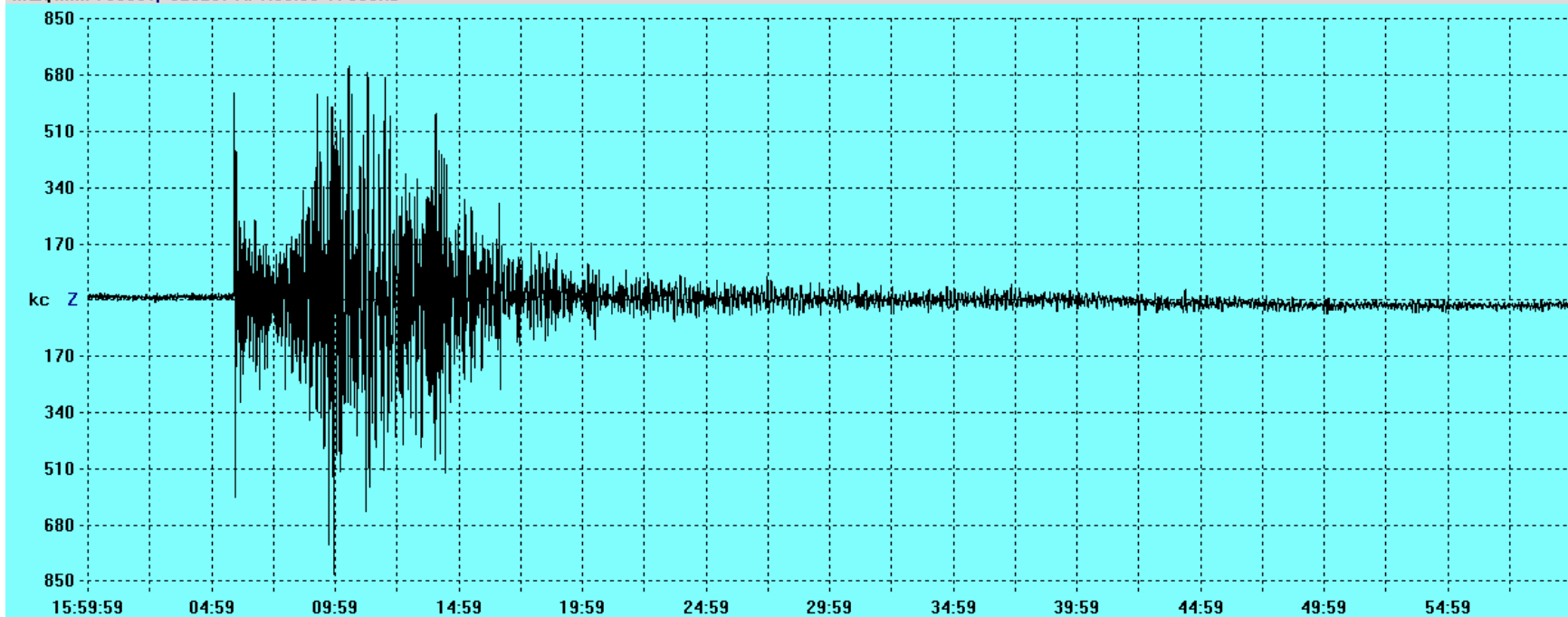


PDE-Q 2012 06 07 040505.15 -35.99 -70.77 7 6.0 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 6/07/12 15:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 705301/-829257 X: 1:00:00 Y: 850kc

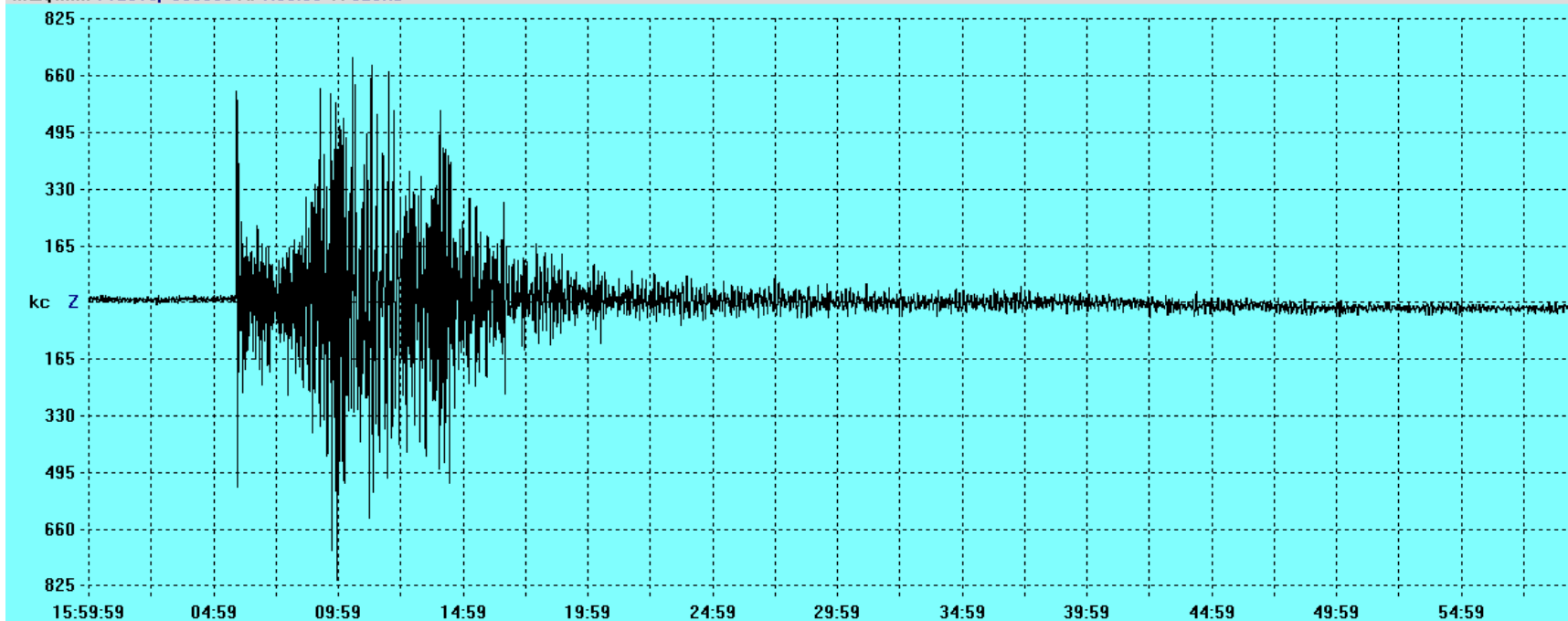


PDE-Q 2012 06 07 160318.10 -15.94 -72.53 102 6.1 MwWCMT

Versão filtrada (low-pass) do sismograma acima:

Start: 6/07/12 15:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 712019/-808860 X: 1:00:00 Y: 825kc

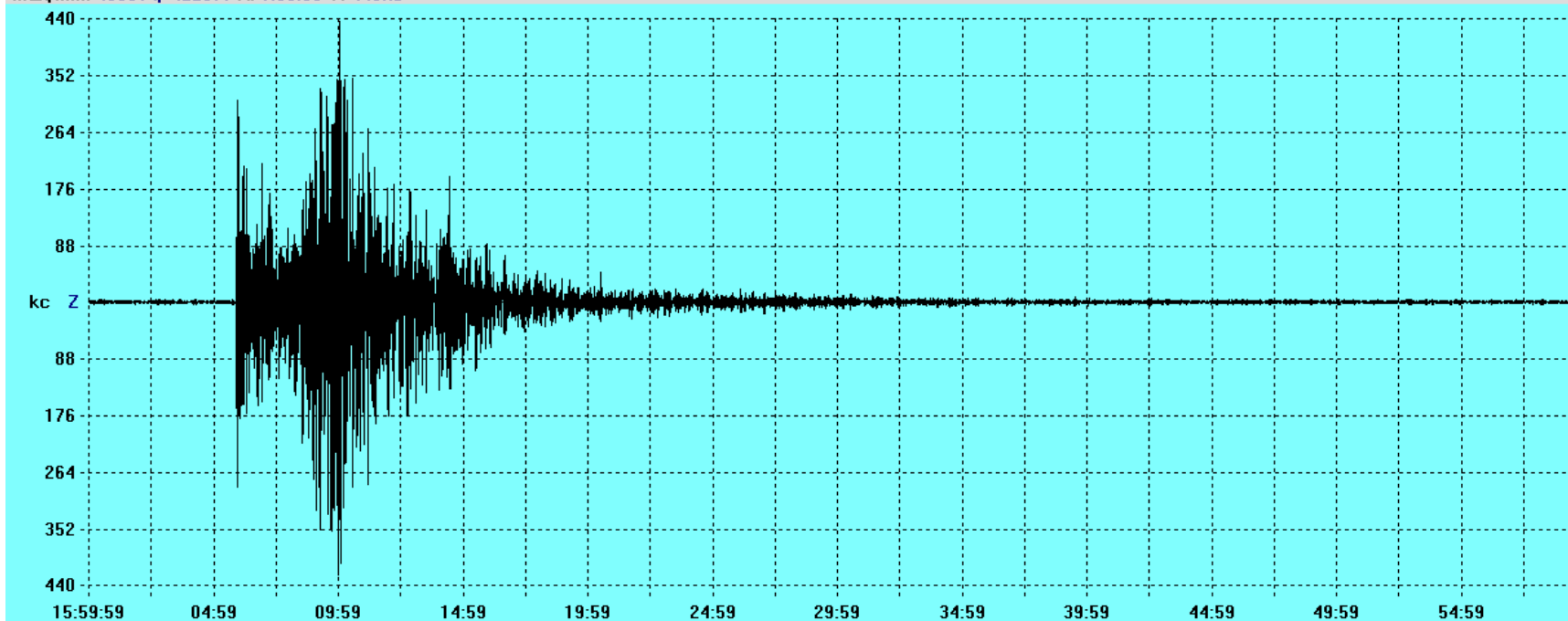


PDE-Q 2012 06 07 160318.10 -15.94 -72.53 102 6.1 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 6/07/12 15:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 435914/-422677 X: 1:00:00 Y: 440kc

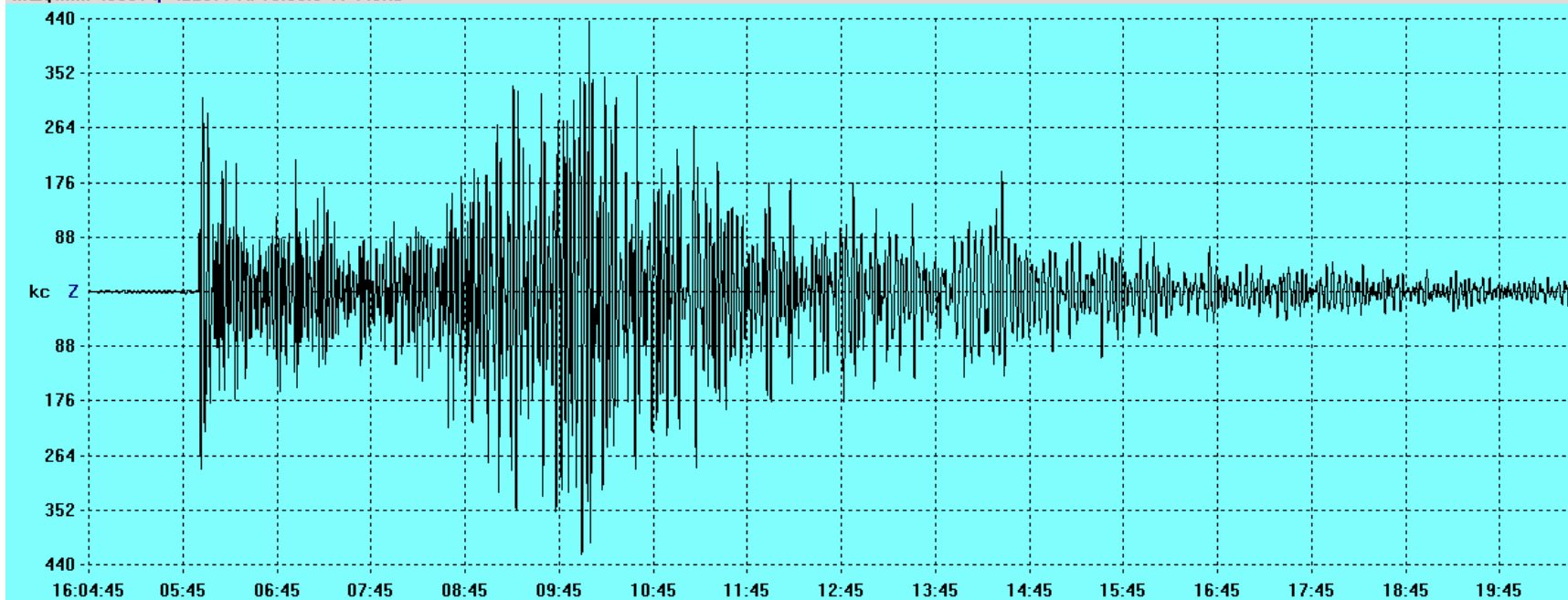


PDE-Q 2012 06 07 160318.10 -15.94 -72.53 102 6.1 MwWCMT

Detalhes do sismograma acima:

Start: 6/07/12 15:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 435914/-422677 X: 15:55.0 Y: 440kc

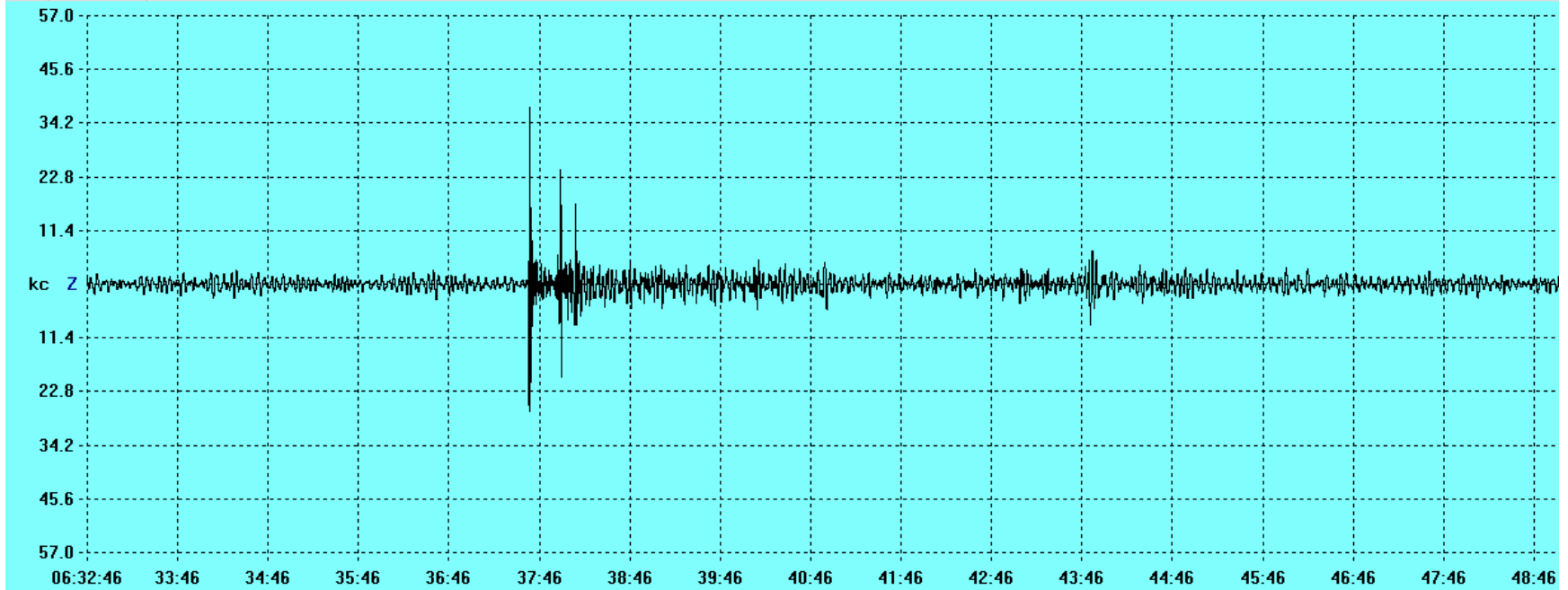


PDE-Q 2012 06 07 160318.10 -15.94 -72.53 102 6.1 MwWCMT

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

Start: 6/27/12 5:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 37509/-26948 X: 16:17.0 Y: 57kc

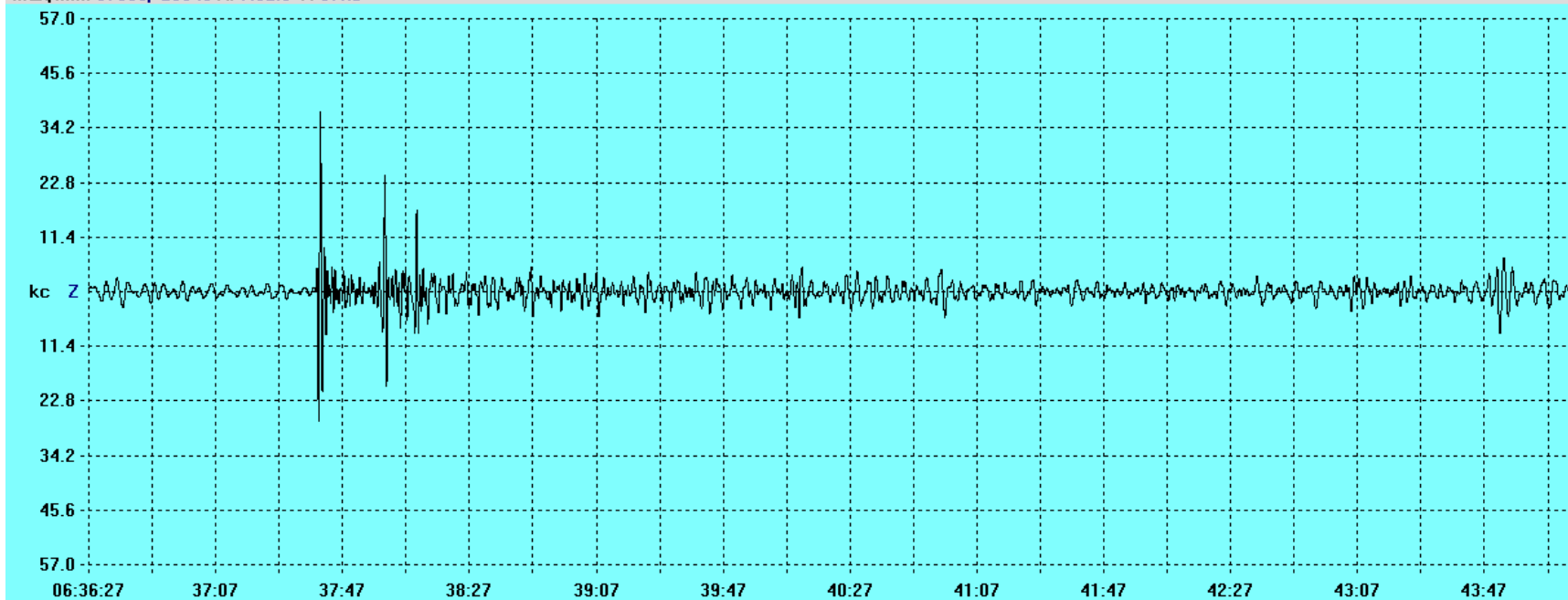


PDE-Q 2012 06 27 063103.42 13.92 -89.97 160 5.7 MwWCMT

Detalhes do sismograma acima:

Start: 6/27/12 5:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 37509/-26948 X: 7:52.0 Y: 57kc

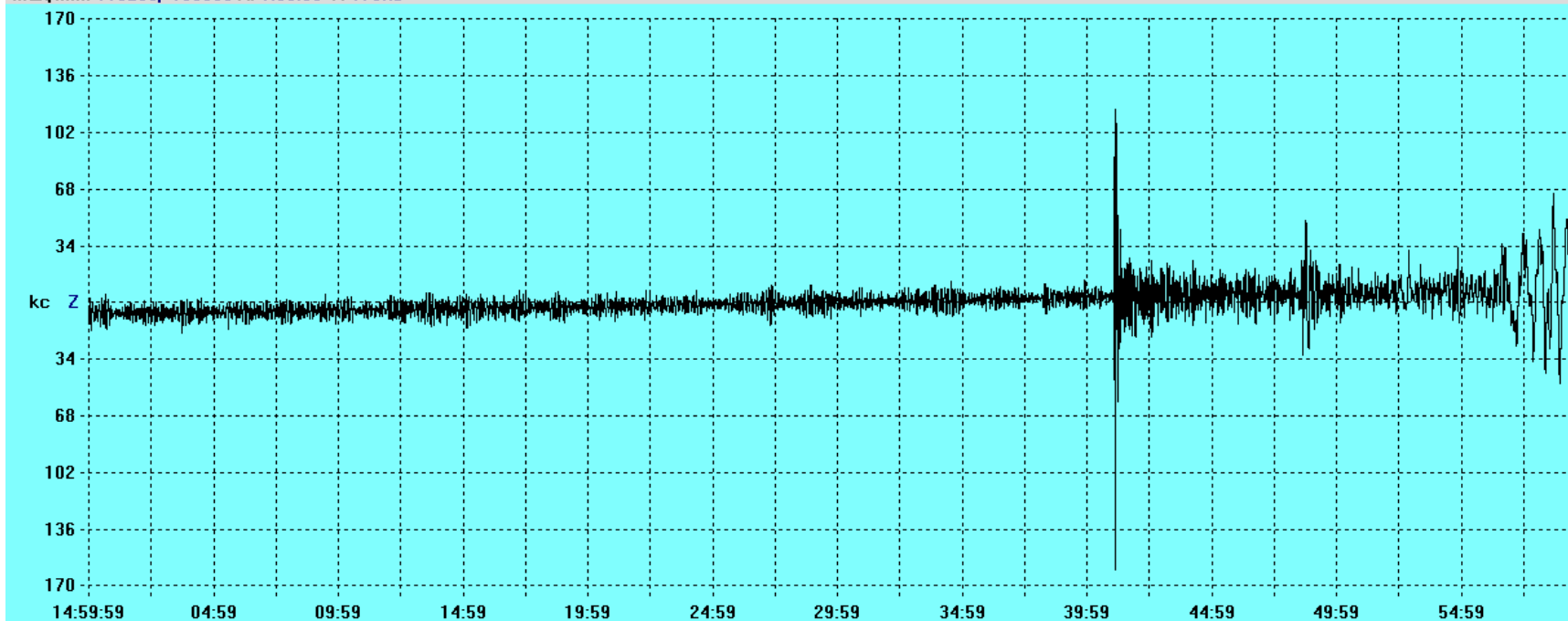


PDE-Q 2012 06 27 063103.42 13.92 -89.97 160 5.7 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 6/29/12 14:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 115256/-160688 X: 1:00:00 Y: 170kc

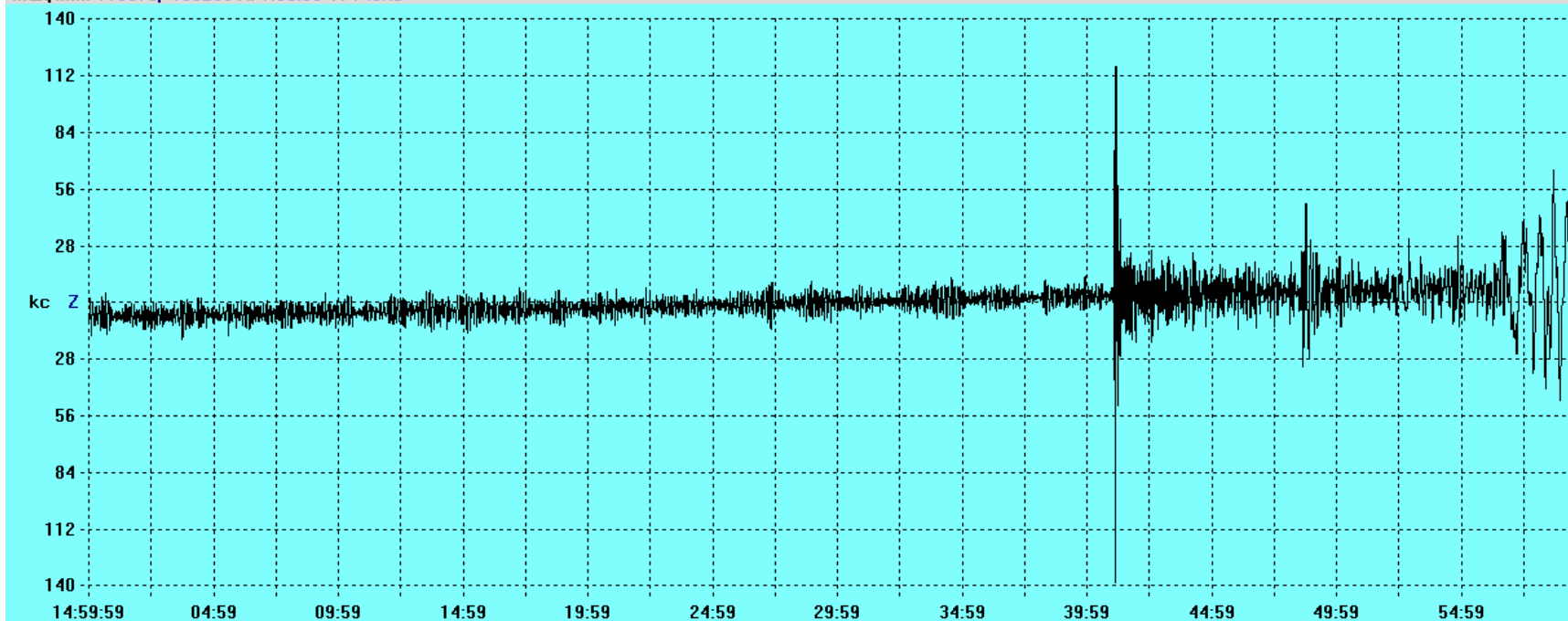


PDE-Q 2012 06 29 153146.68 -24.72 -9.66 10 5.8 MwWCMT

Versão filtrada (low-pass) do sismograma acima:

Start: 6/29/12 14:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 115879/-138266 X: 1:00:00 Y: 140kc

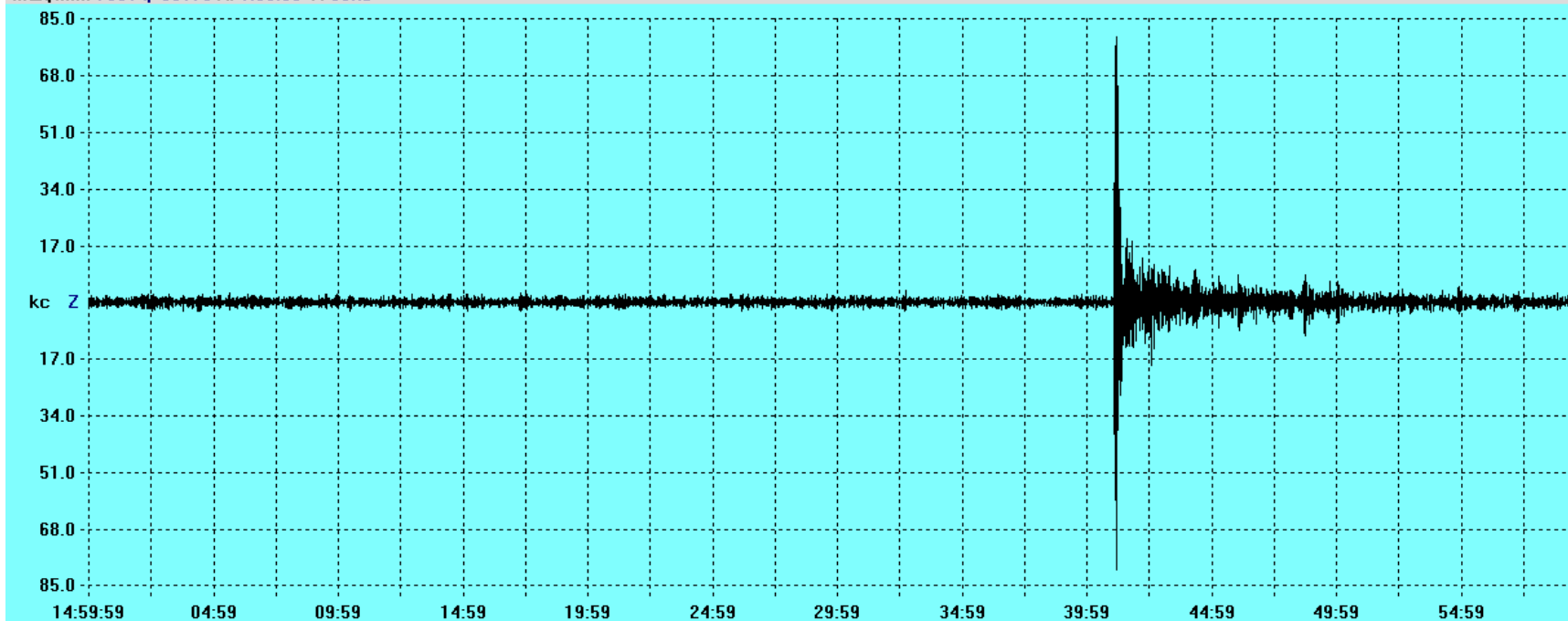


PDE-Q 2012 06 29 153146.68 -24.72 -9.66 10 5.8 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 6/29/12 14:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 79314/-80173 X: 1:00:00 Y: 85kc

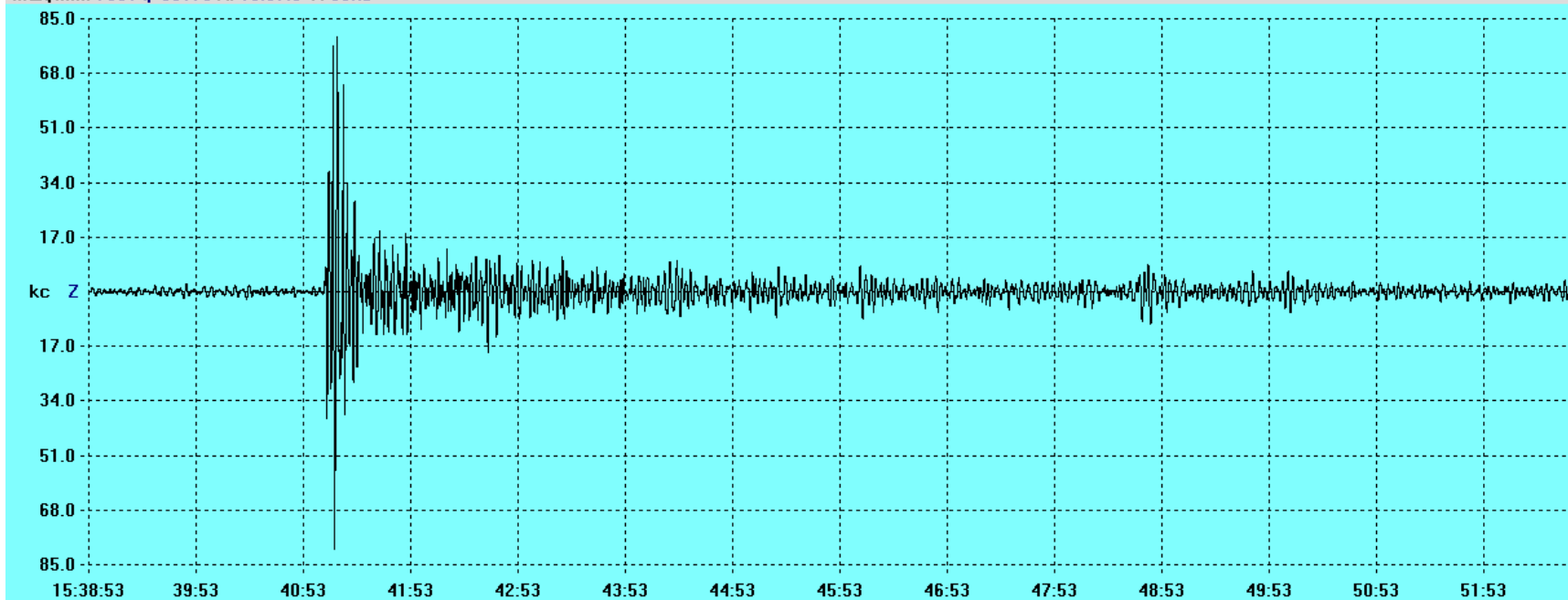


PDE-Q 2012 06 29 153146.68 -24.72 -9.66 10 5.8 MwWCMT

Detalhes do sismograma acima:

Start: 6/29/12 14:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 79314/-80173 X: 13:57.0 Y: 85kc



PDE-Q 2012 06 29 153146.68 -24.72 -9.66 10 5.8 MwWCMT