

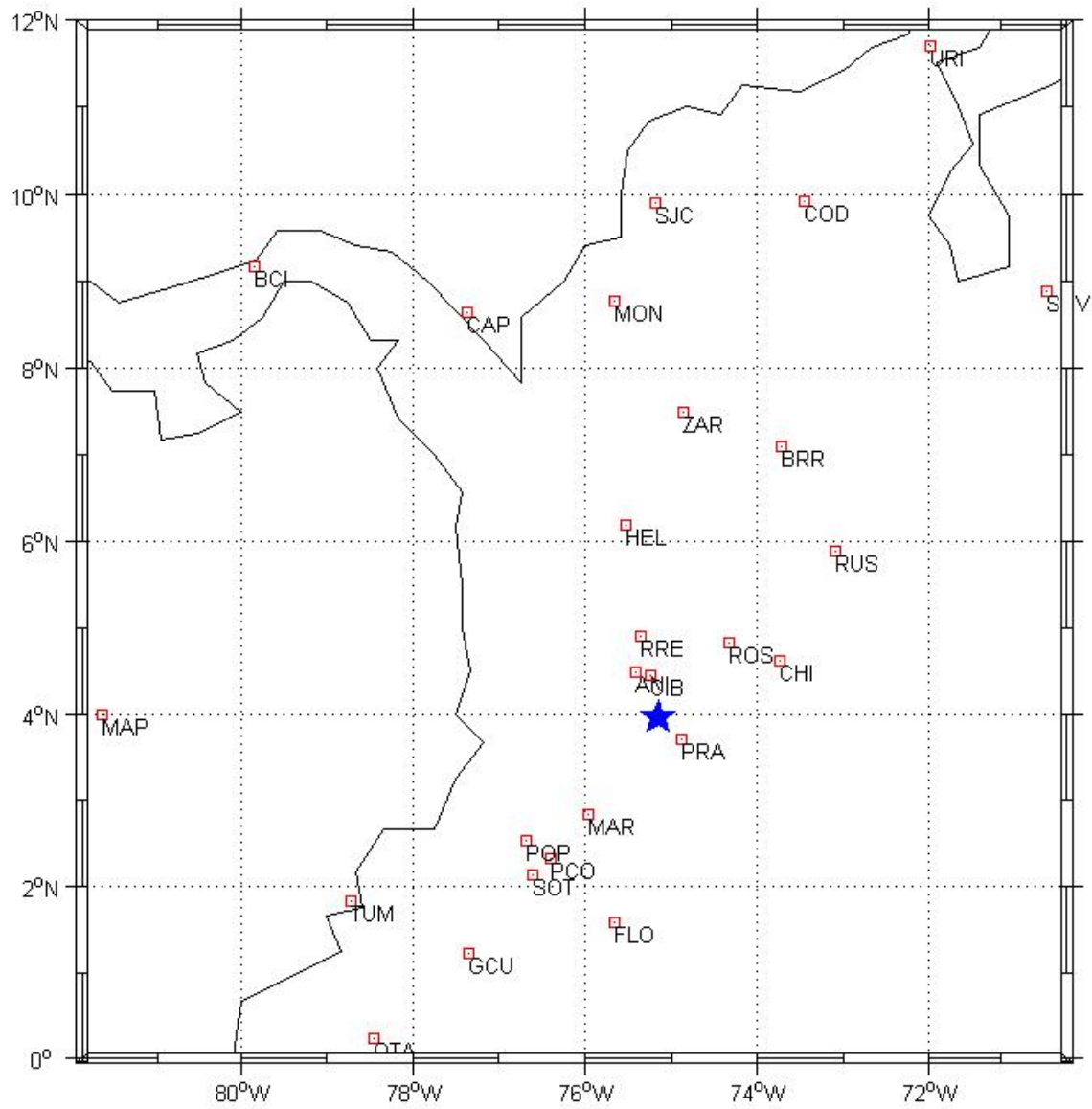
Ortega Earthquake
Colombia

2010 07 29 19:34 45

MI=5,1 (RSNC)

Depth 2,1 Km (RSNC)

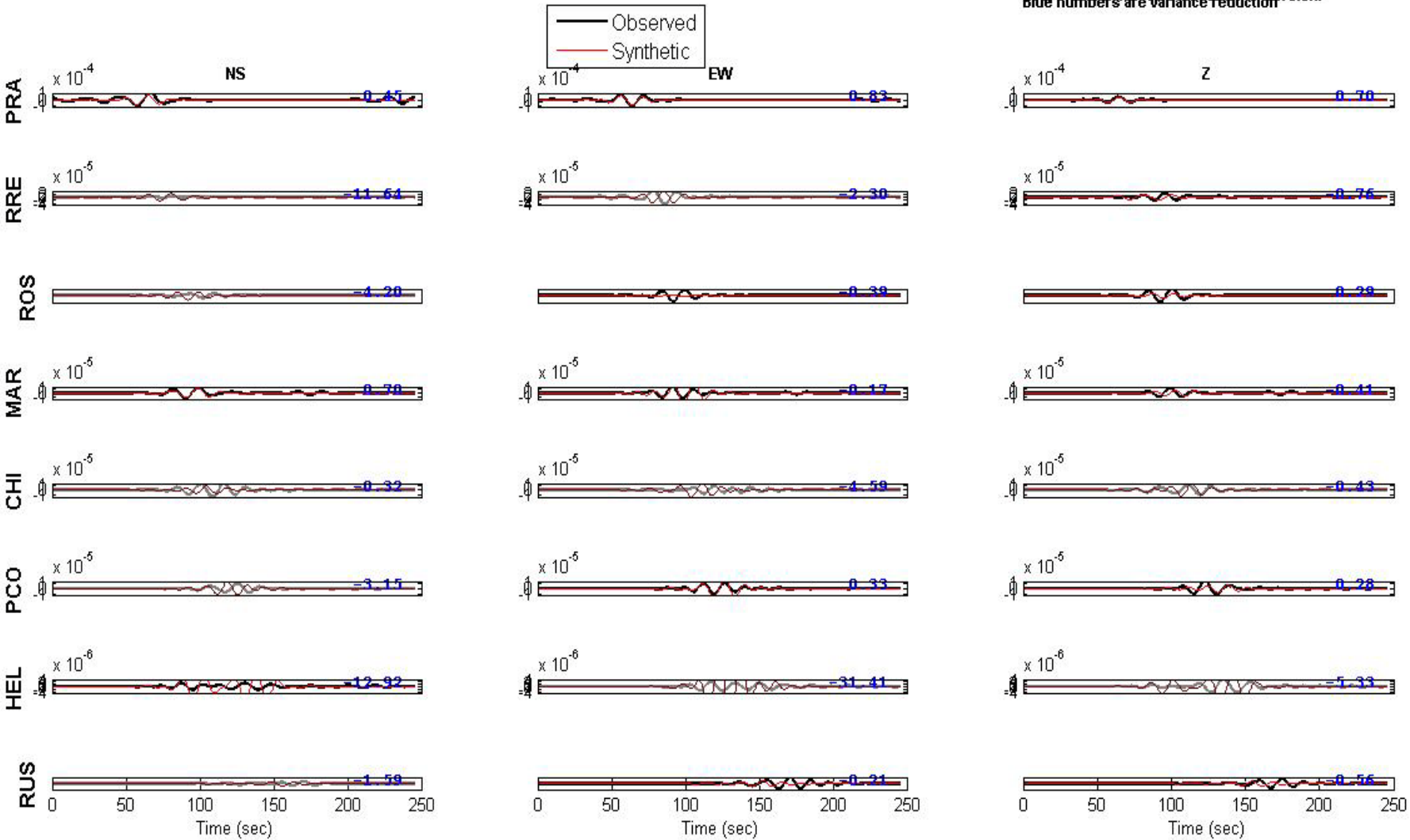
STATION	DIST (Km)	SENSOR
PRA	40.5394	BB
RREF	105.6375	BB
ROS	133.5962	BB
MAR	152.9915	BB
CHI	173.7895	BB
PCO	228.4630	BB
HEL	249.4788	BB
RUS	313.0209	BB



Even date-time: 20100729 19:34:46

Displacement (m). Inversion band (Hz) 0.03 0.06 0.08 0.1

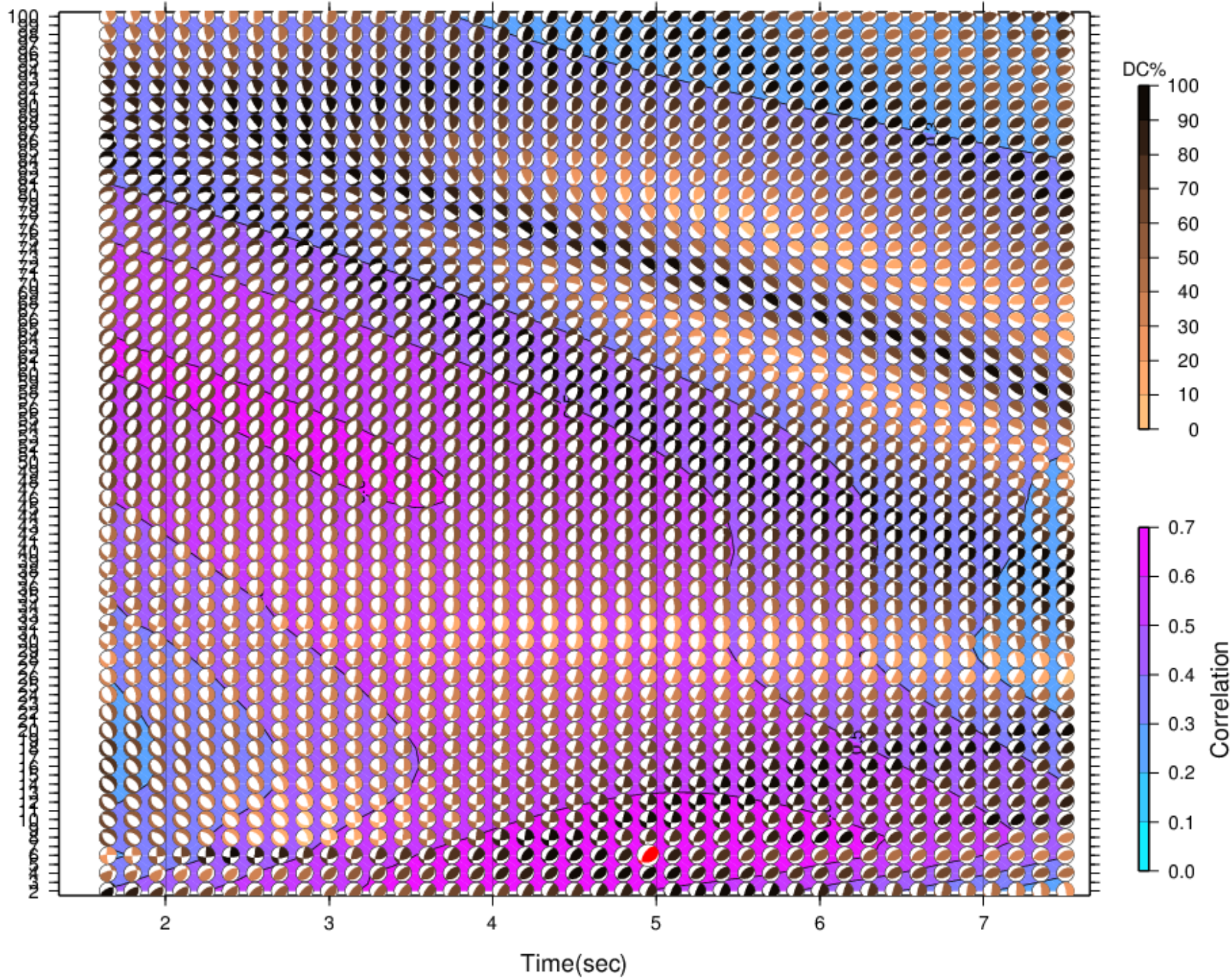
Gray waveforms weren't used in inversion.
Blue numbers are variance reduction



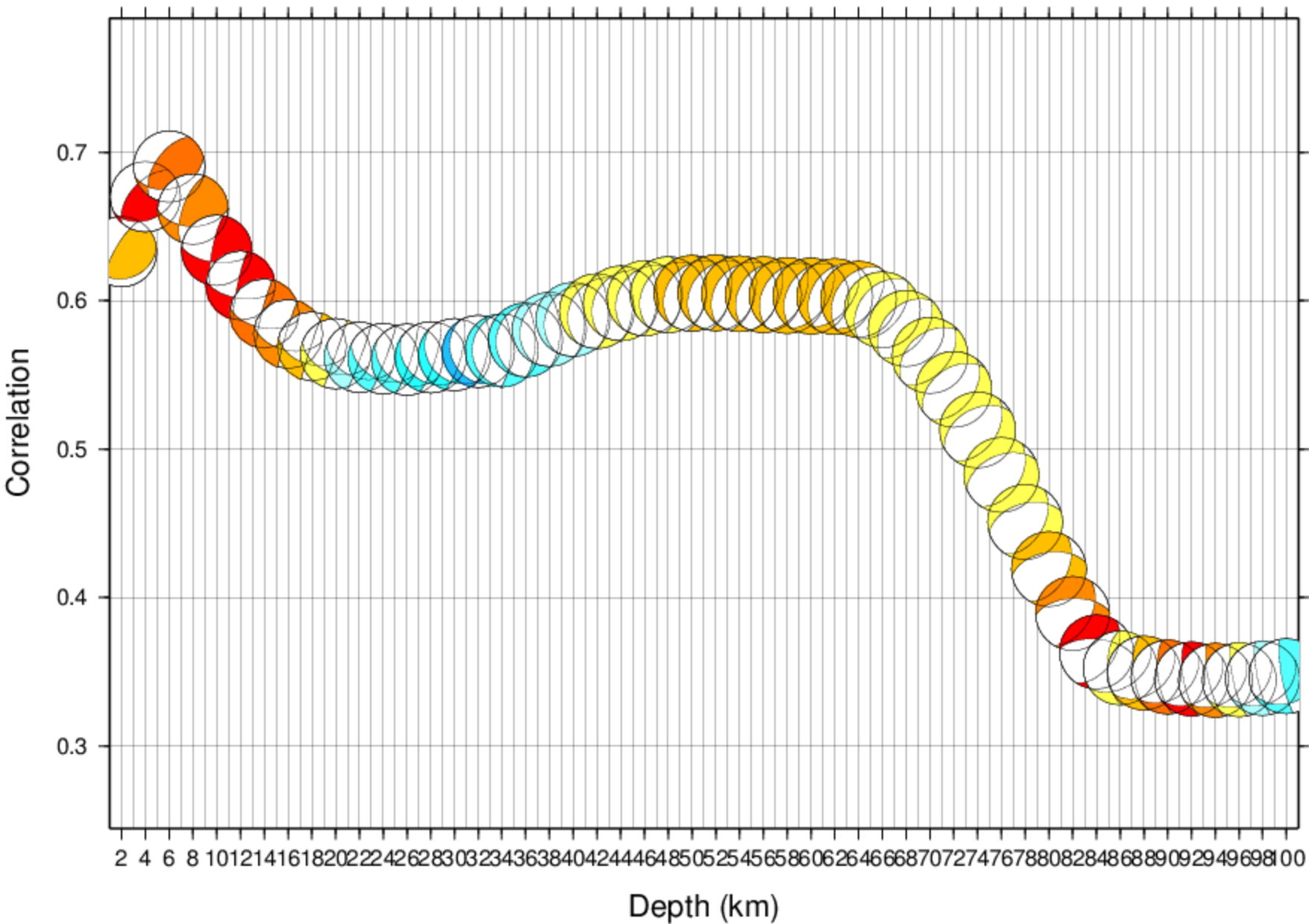
Variance Reduction per component

Station	NS	EW	Z
PRA	0.45	0.83	0.70
RRE	-11.64	-2.30	-0.76
ROS	-4.20	-0.39	0.29
MAR	0.70	-0.17	-0.41
CHI	-0.32	-4.59	-0.43
PCO	-3.15	0.33	0.28
HEL	-12.92	-31.41	-5.33
RUS	-1.59	-0.21	-0.56

Source position (km)



Correlation vs Depth Plot



MOMENT TENSOR SOLUTION

HYPOCENTER LOCATION (RSNC)

Origin time 20100729 19:34:46.57
Lat 3.966 Lon -75.151 Depth 2

CENTROID

Trial source number : 3 (Fixed Epicenter inversion)
Centroid Lat 3.966 Lon -75.151
Centroid Depth : 6
Centroid time : +4.95 (sec) relative to origin time

Moment (Nm) : 5.371e+016

Mw : 5.1

VOL% : 0

DC% : 85.2

CLVD% : 14.8

Var.red. (for stations used in inversion) : 0.22

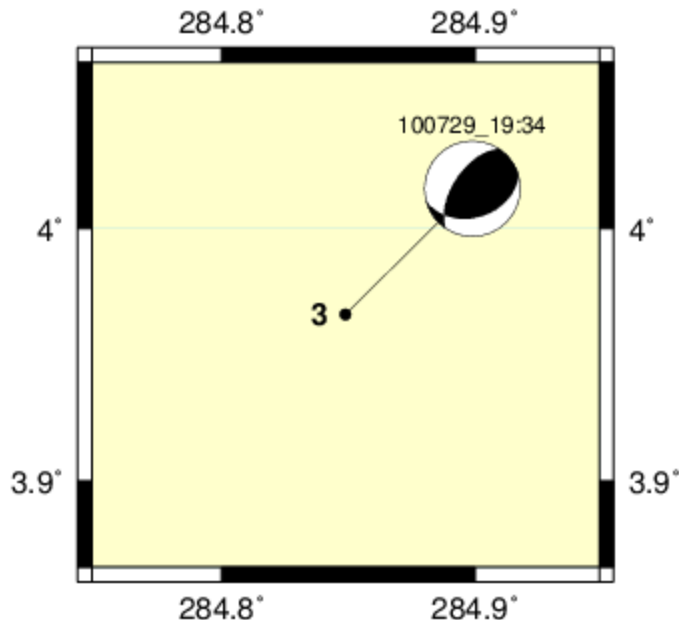
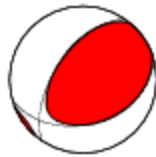
Var.red. (for all stations) : 0.22

Strike	Dip	Rake	Station	NS	EW	Ver
74	39	123	PRA	+	+	+
214	58	66	RRE	-	-	+
-----			ROS	-	+	+
P-axis Azimuth Plunge			MAR	+	+	+
			CHI	-	-	-
T-axis Azimuth Plunge			PCO	-	+	+
			HEL	+	-	-
-----			RUS	-	+	+

Mrr Mtt Mpp
4.522 -3.133 -1.389

Mrt Mrp Mtp
-0.176 -2.603 -2.438

Exponent (Nm) : 16



HARVARD CMT

Global CMT Search Results - Windows Internet Explorer

http://www.globalcmt.org/cgi-bin/globalcmt-cgi-bin/CMT4/form?type=y&yr=2010&mo=07&day=1&otype=y&oyr=2010&omo=07&oday=30&jyr=1976&jday=1&ojyr

Global CMT Search Results

Global CMT Catalog

Search criteria:

```
Start date: 2010/7/1   End date: 2010/7/30
0 <=lat<= 10         -77 <=lon<= -72
0 <=depth<= 1000     -9999 <=time shift<= 9999
0 <=mb<= 10          0<=Ms<= 10          0<=Mw<= 10
0 <=tension plunge<= 90    0 <=null plunge<= 90
```

Results

201007291934A COLOMBIA

Date: 2010/ 7/29 Centroid Time: 19:34:49.8 GMT

Lat= 3.98 Lon= -75.09

Depth= 33.1 Half duration= 0.8

Centroid time minus hypocenter time: 3.2

Moment Tensor: Expo=23 3.120 1.970 -5.090 1.810 -0.478 -0.719

Mw = 5.1 mb = 5.0 Ms = 0.0 Scalar Moment = 4.84e+23

Fault plane: strike=37 dip=54 slip=138

Fault plane: strike=155 dip=57 slip=45

End of events found with given criteria.

See the [CMT project](#) web page for more information on CMTs.

Please [email comments](#).

Last modified: 2011-06-29

Internet | Modo protegido: activado

10:40 a.m.
19/10/2011

Polarities

