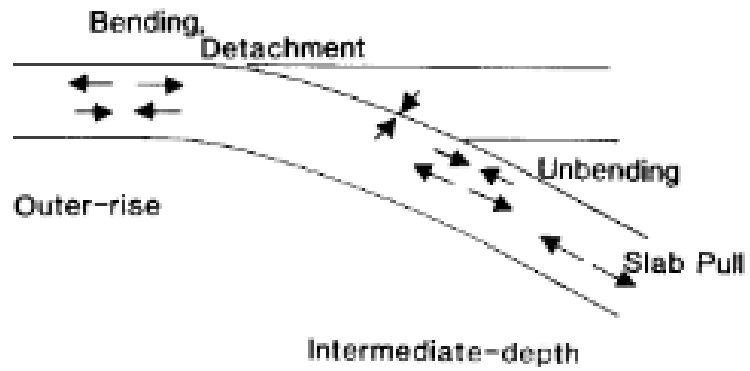


La Vega Earthquake

20130930 – Mw 7.1

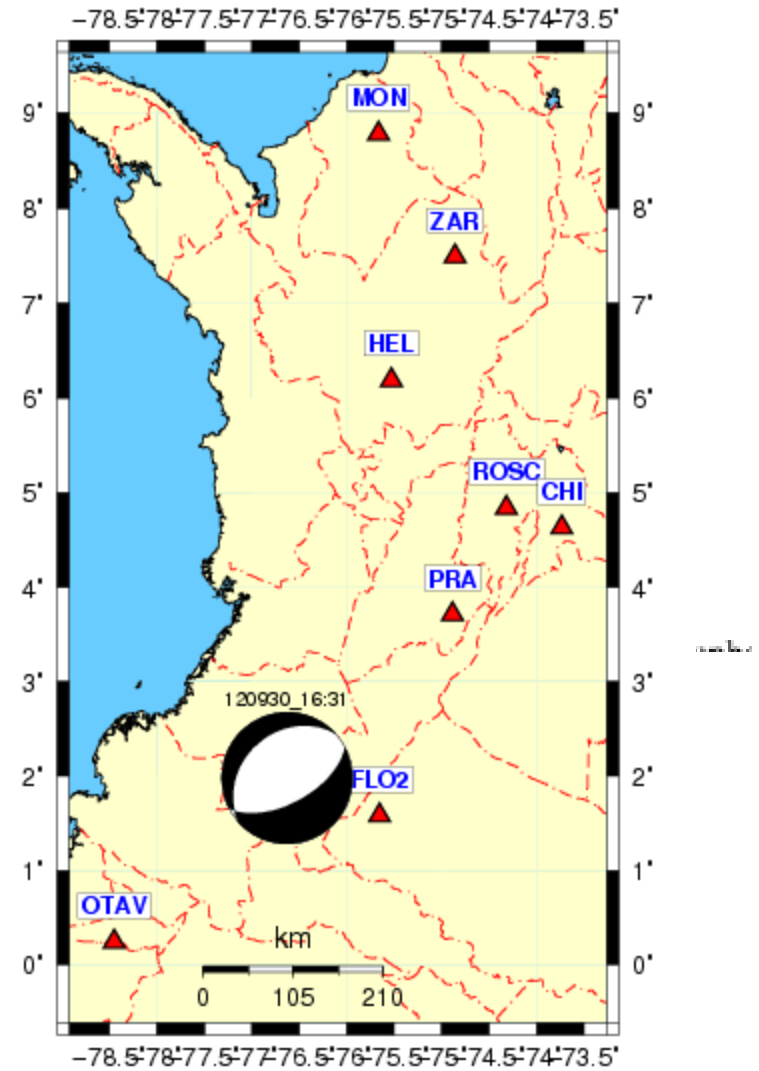
Event ID:120930_16_31_34.70

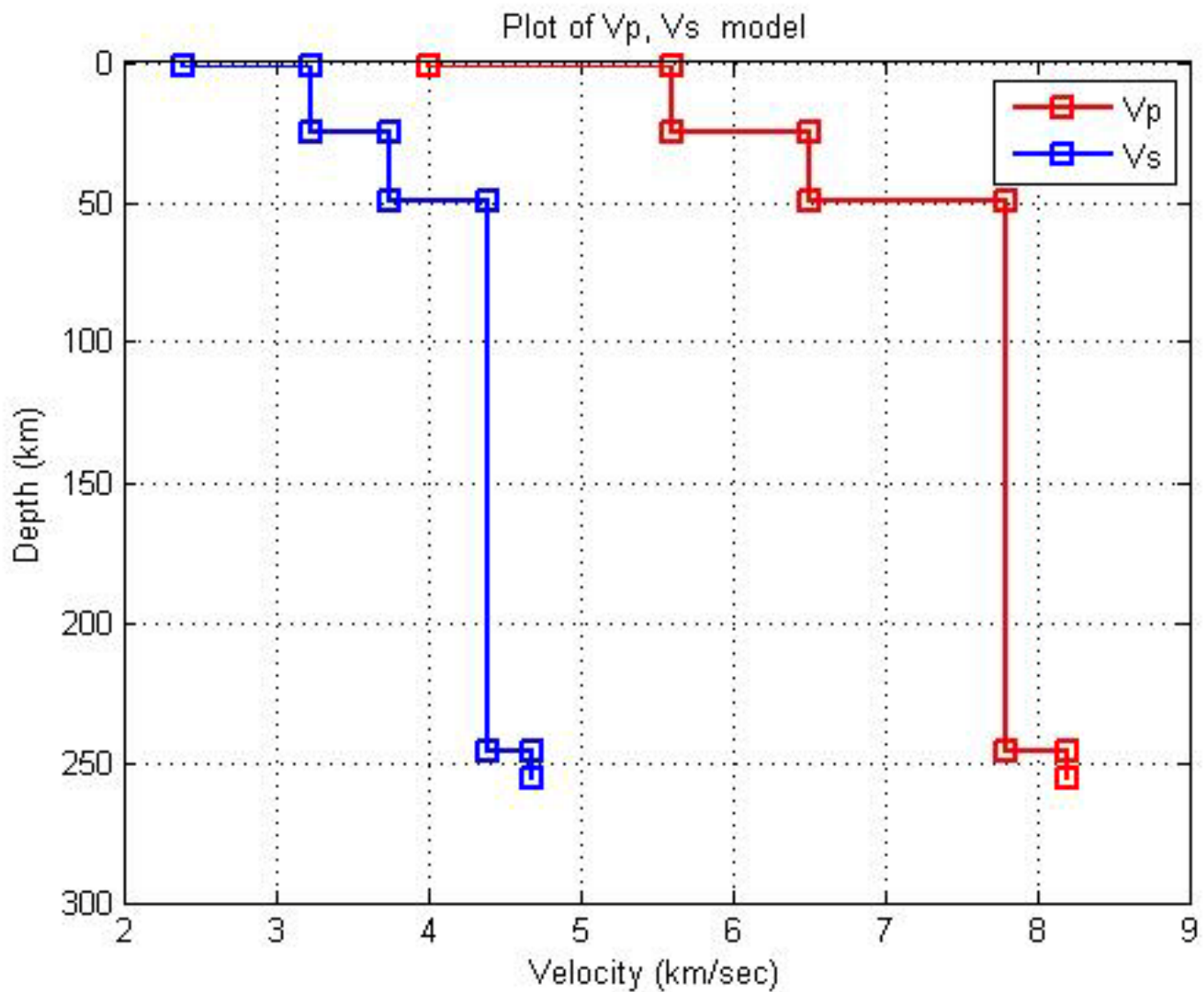
STATIC



a

Fig. 3. (a) 2-D model of the stress distribution within

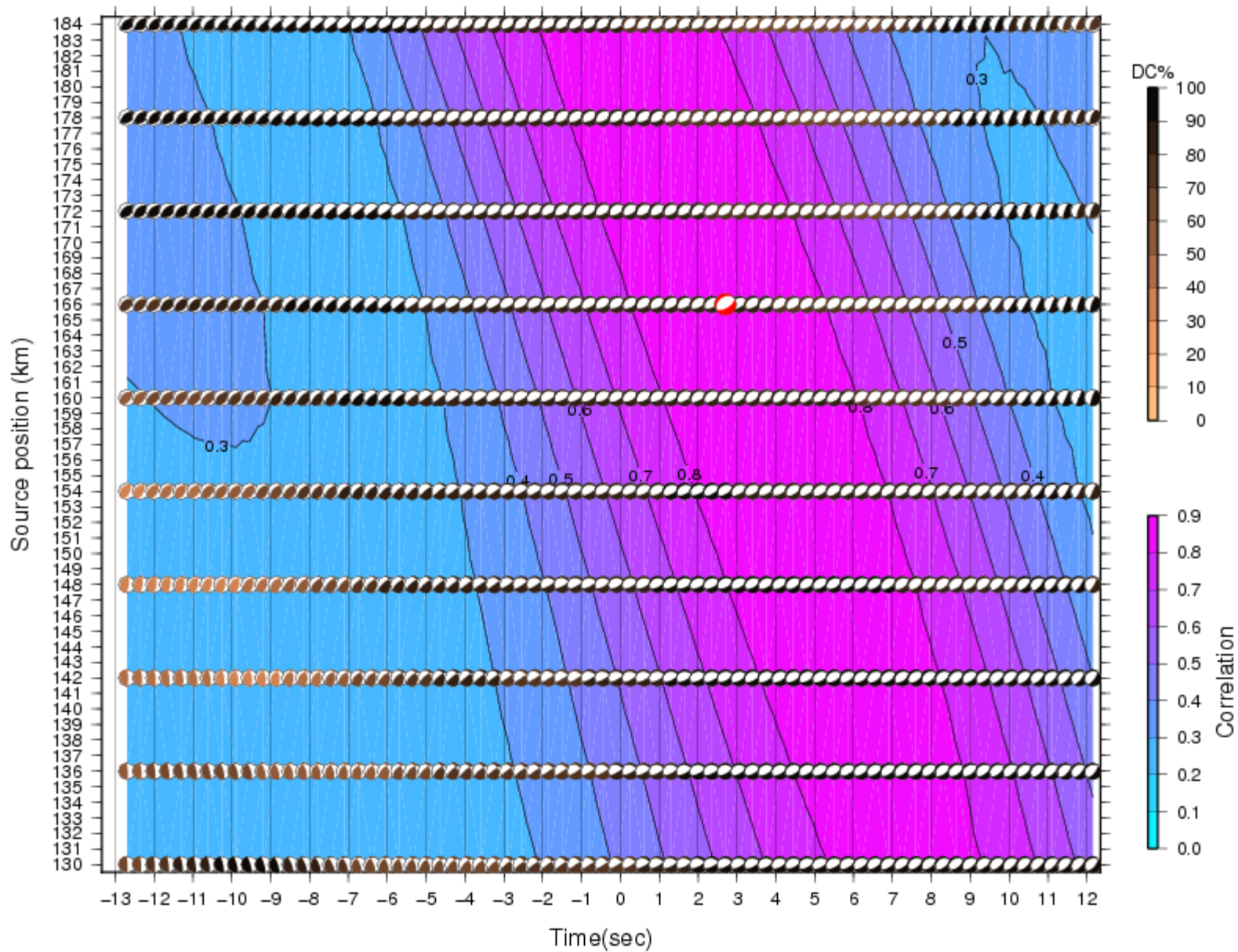




201209301631A COLOMBIA

Date: 2012/ 9/30 Centroid Time: 16:31:44.5 GMT
Lat= 1.89 Lon= -76.22
Depth=159.1 Half duration=10.1
Centroid time minus hypocenter time: 8.5
Moment Tensor: Expo=27 -0.755 0.758 -0.004 -0.278 0.059 0.417
Mw = 7.2 mb = 7.0 Ms = 7.3 Scalar Moment = 9.01e+26
Fault plane: strike=231 dip=39 slip=-113
Fault plane: strike=80 dip=54 slip=-73



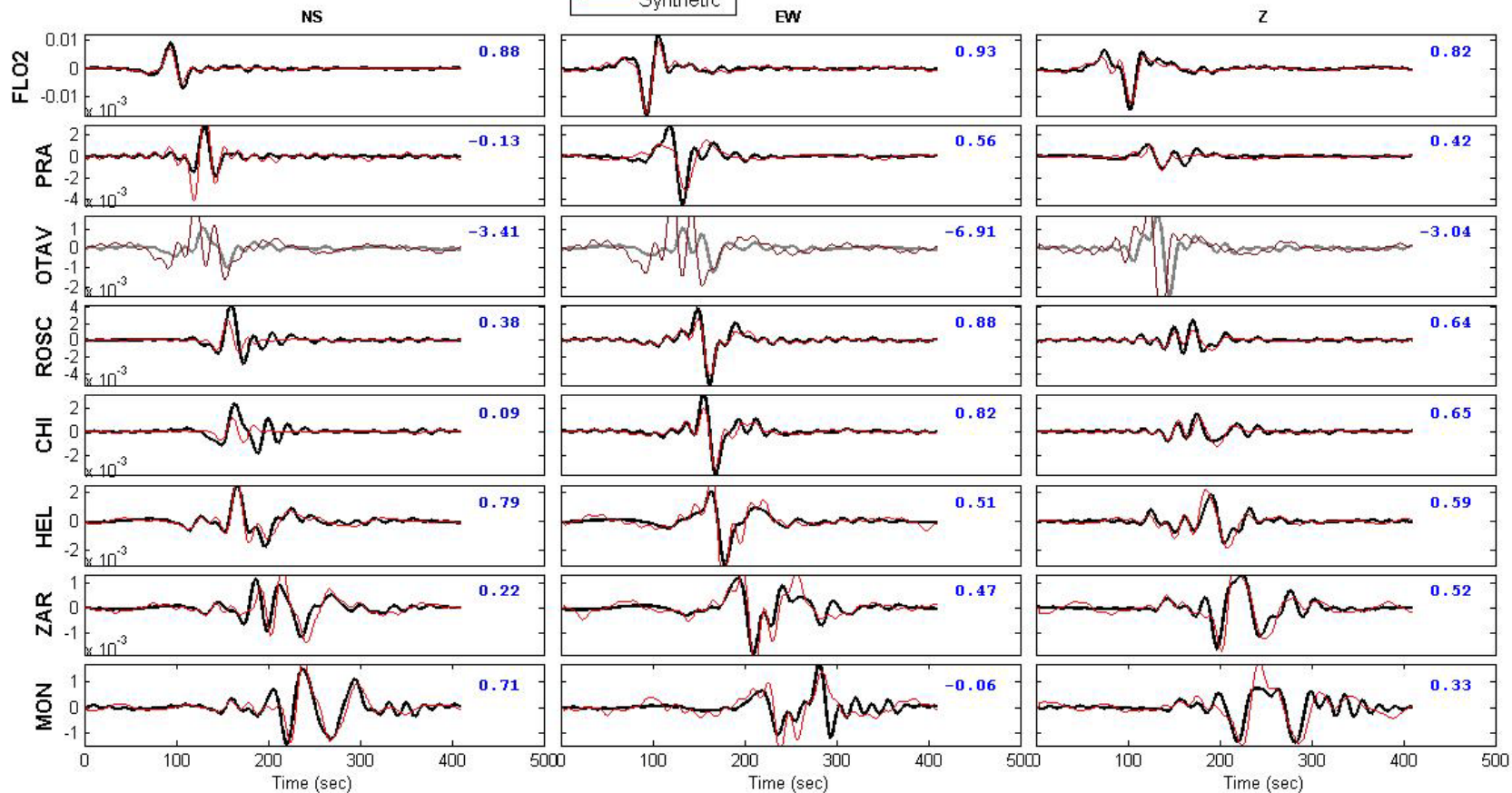
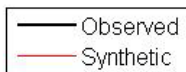


Event date-time: 120930_16_31_34.70

Displacement (m). Inversion band (Hz) 0.01 0.01 0.06 0.06

Gray waveforms weren't used in inversion.

Blue numbers are variance reduction



MOMENT TENSOR SOLUTION

HYPOCENTER LOCATION (RSNC)

Origin time 20120930 16:31:34.70
 Lat 1.978 Lon -76.63 Depth 172

CENTROID

Trial source number : 6 (Fixed Epicenter inversion)
 Centroid Lat (N)1.978 Lon (E)-76.63
 Centroid Depth (km) : 165
 Centroid time : +3.05 (sec) relative to origin time

Moment (Nm) : 8.838e+19

Mw : 7.2

VOL% : 0

DC% : 82.8

CLVD% : 17.2

Var.red. (for stations used in inversion) : 0.81

SNR CN FMVAR STVAR

NaN 2.9 4±2 0.19

Var.red. (for all stations) : 0.74

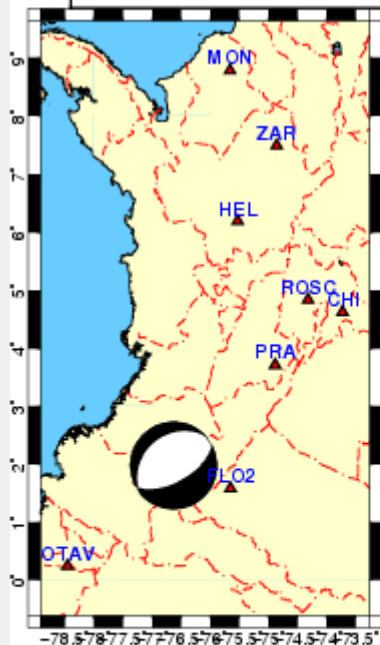
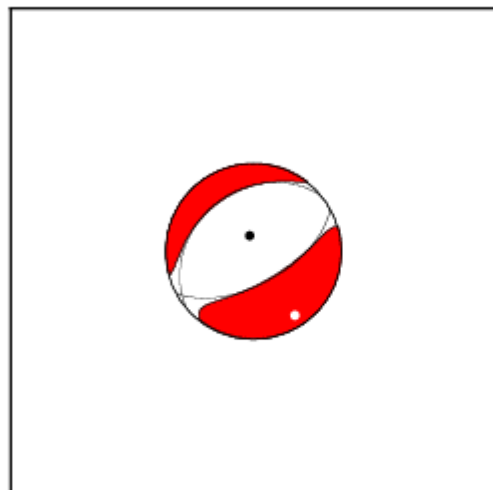
Strike	Dip	Rake		Frequency band used in inversion (Hz)
231	31	-99		0.01 - 0.01 -- 0.06 - 0.06

Strike	Dip	Rake		Stations-Components Used-Distance
61	59	-85		

				NS	EW	Z	D (km)
P-axis	Azimuth	Plunge		FLO2	+	+	117
	346	75		PRA	+	+	273
T-axis	Azimuth	Plunge		OTAV	-	-	279
	147	14		ROSC	+	+	407

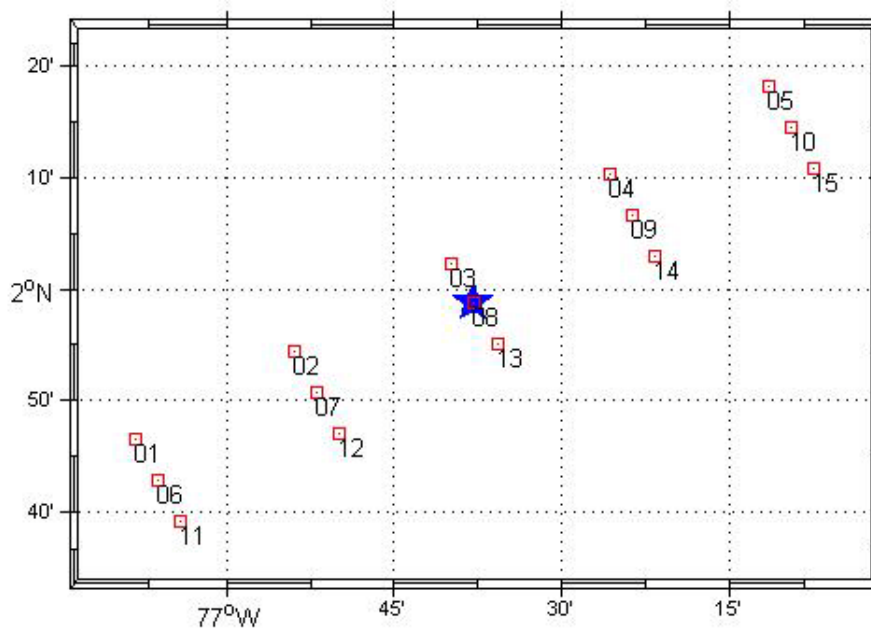
	Mrr	Mtt	Mpp		HEL	+	+	482
	-7.324	5.388	1.936		ZAR	+	+	641
	Mrt	Mrp	Mtp		MON	+	+	760
	-3.809	-1.748	4.163					

Exponent (Nm): 19

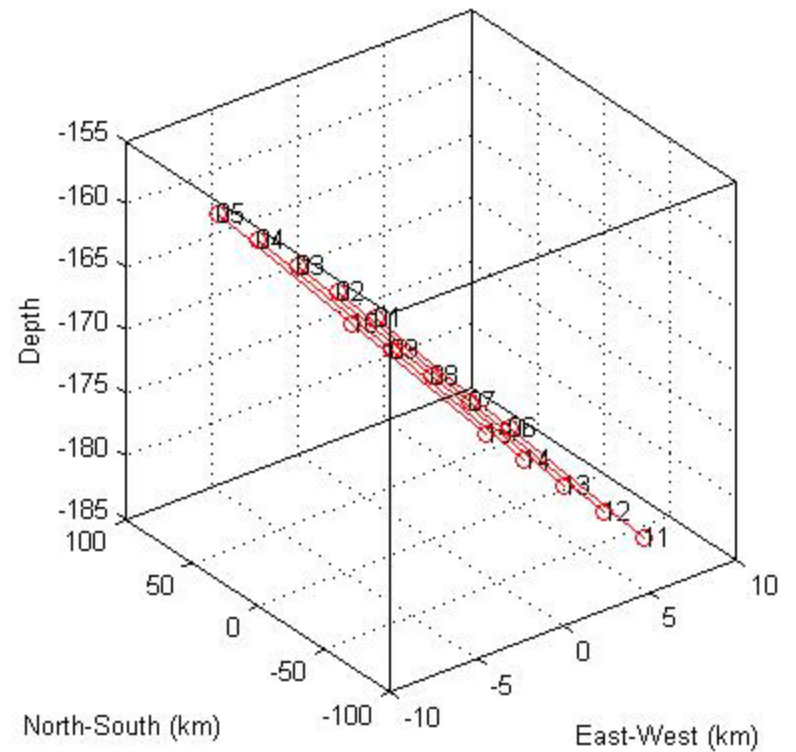


Búsqueda del plano horizontal

X-Y-Z



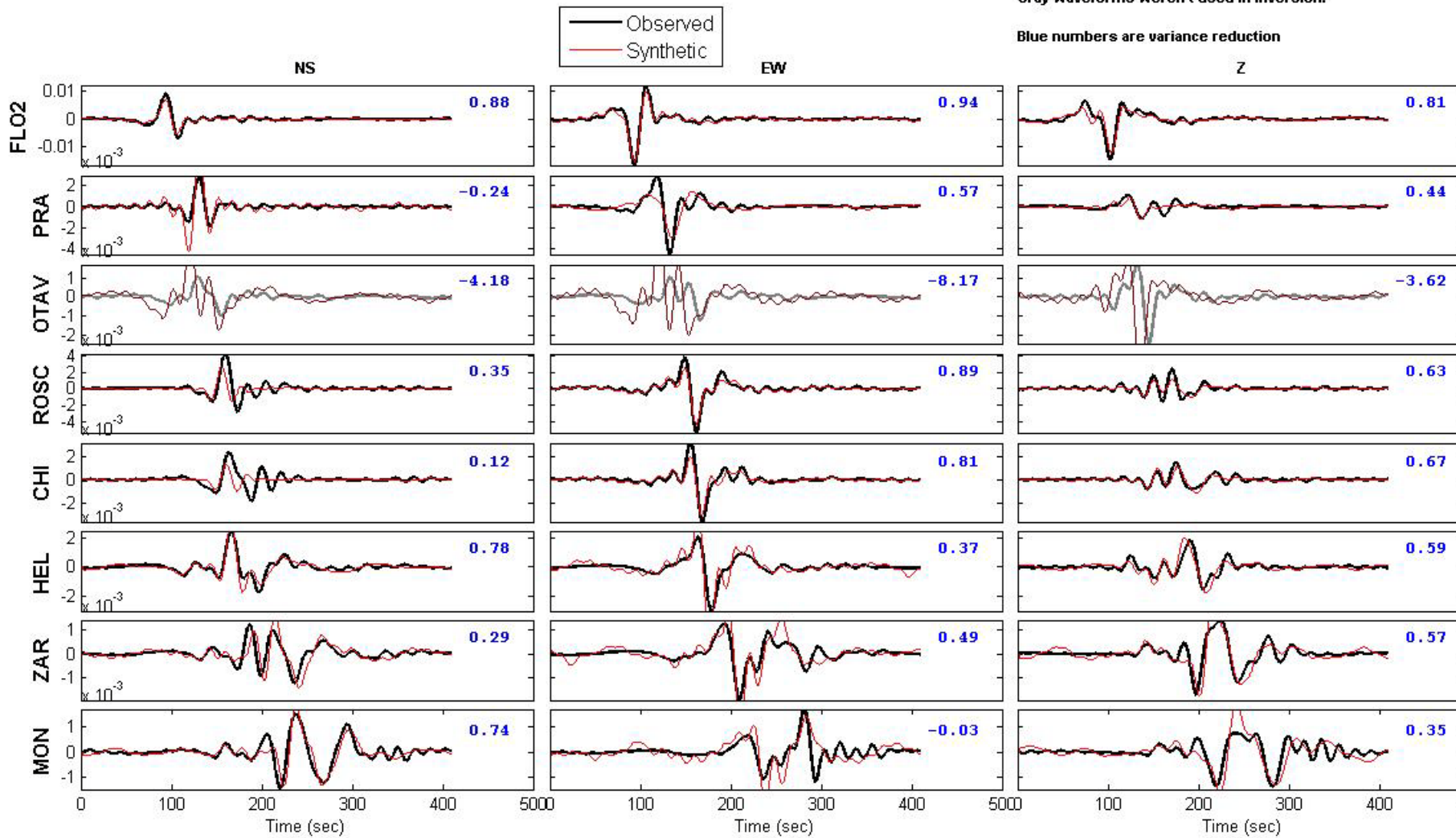
X-Y-Z

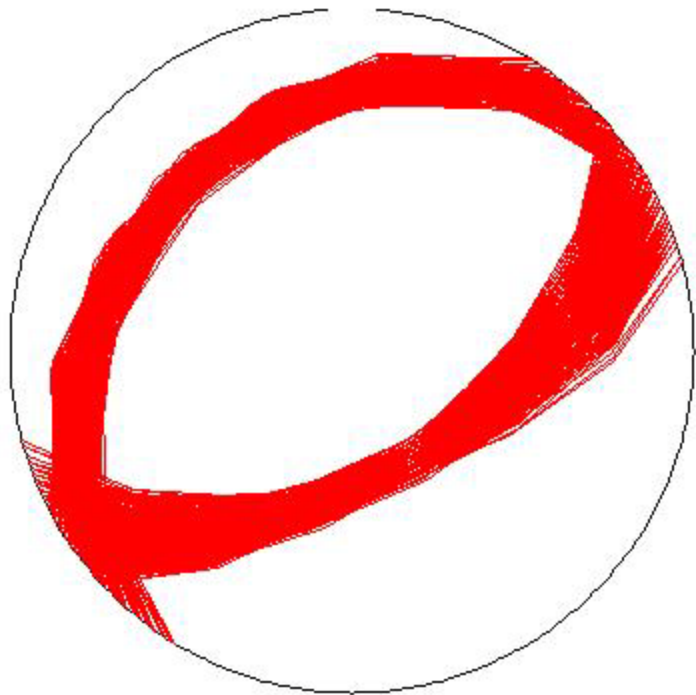


Event date-time: 120930_16_31_34.70

Displacement (m). Inversion band (Hz) 0.01 0.01 0.06 0.06

Gray waveforms weren't used in inversion.





- Half duration ~10 sec
- 2 eventos