

# Dagua earthquake

M=4,5

2013-08-27 -- 23:22:04 UTC

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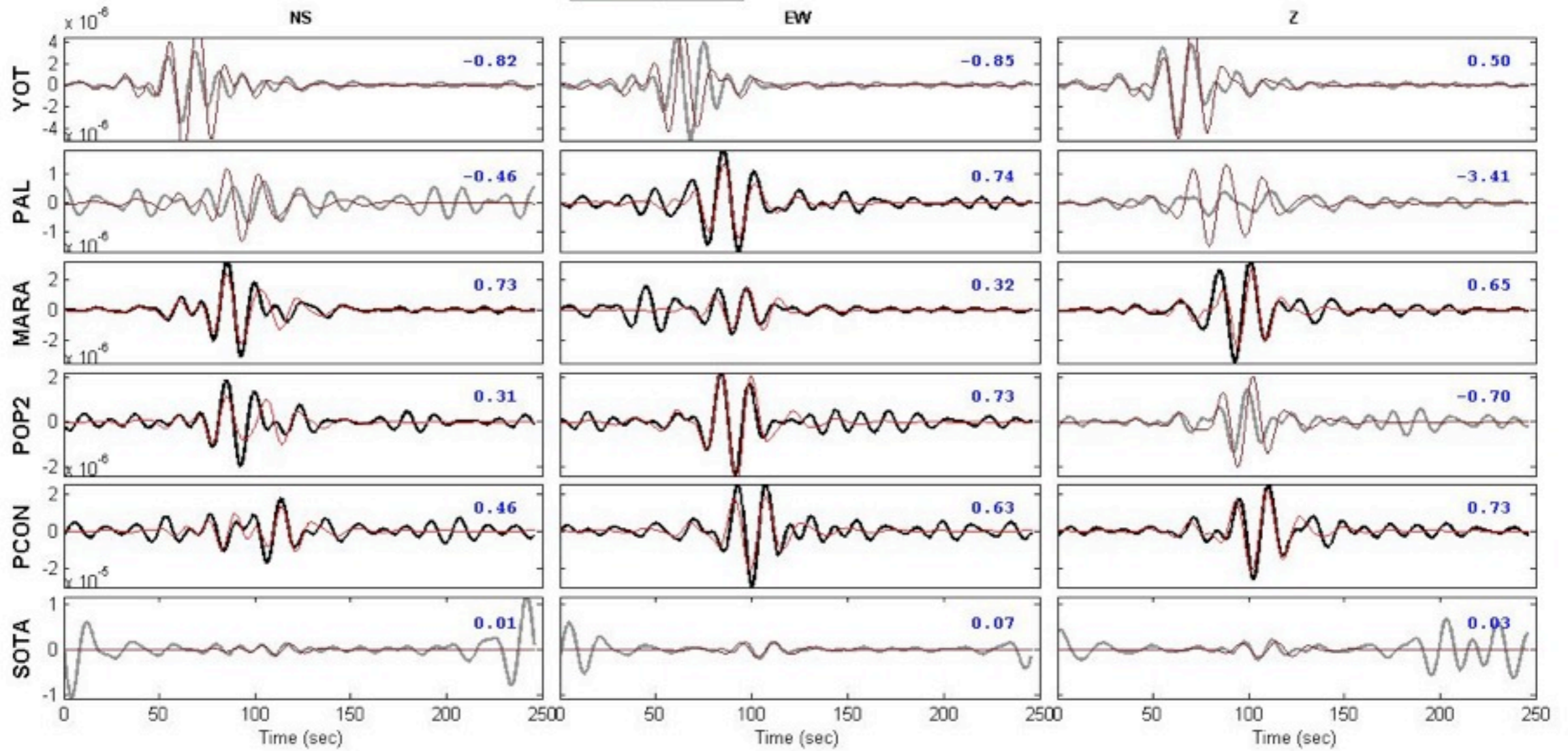
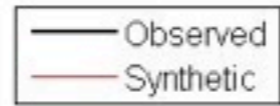
Colombian Geological Survey

Event date-time: 130827\_23\_22\_04.00

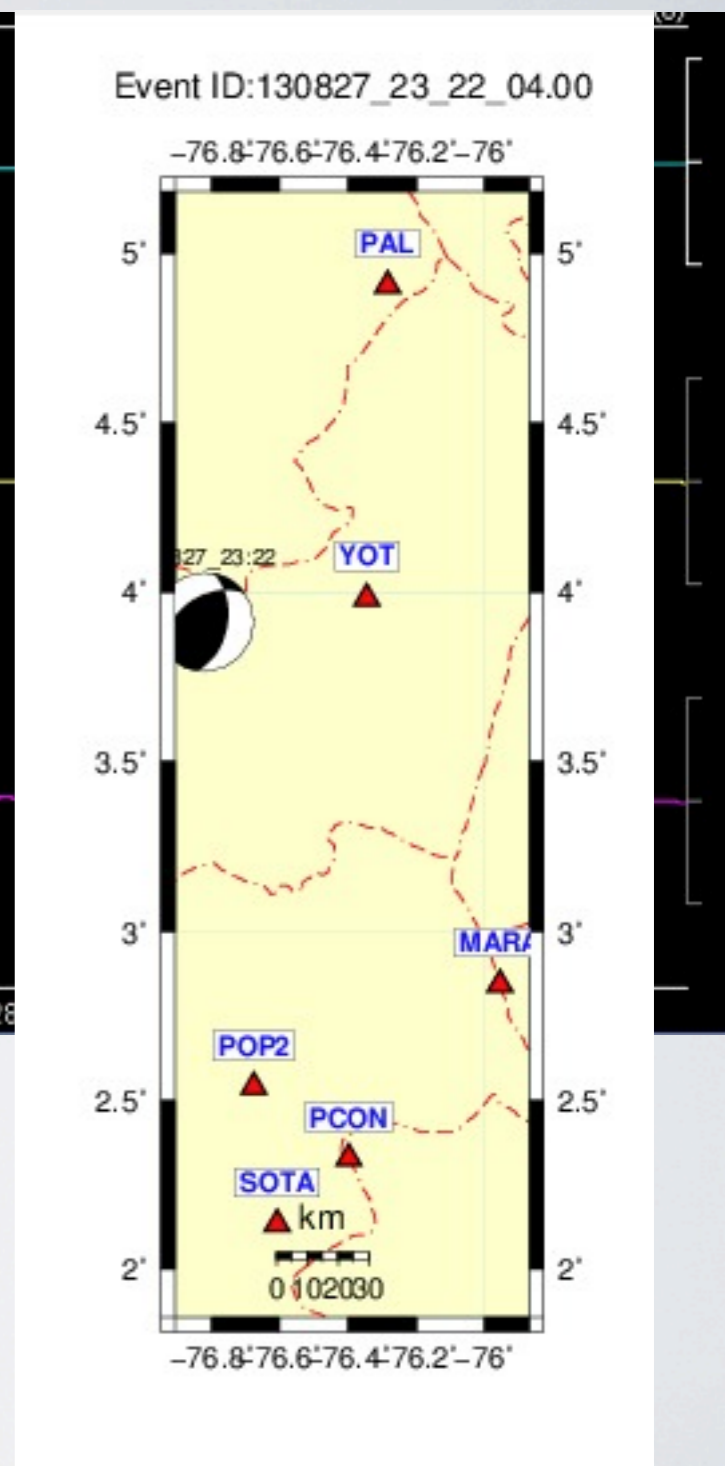
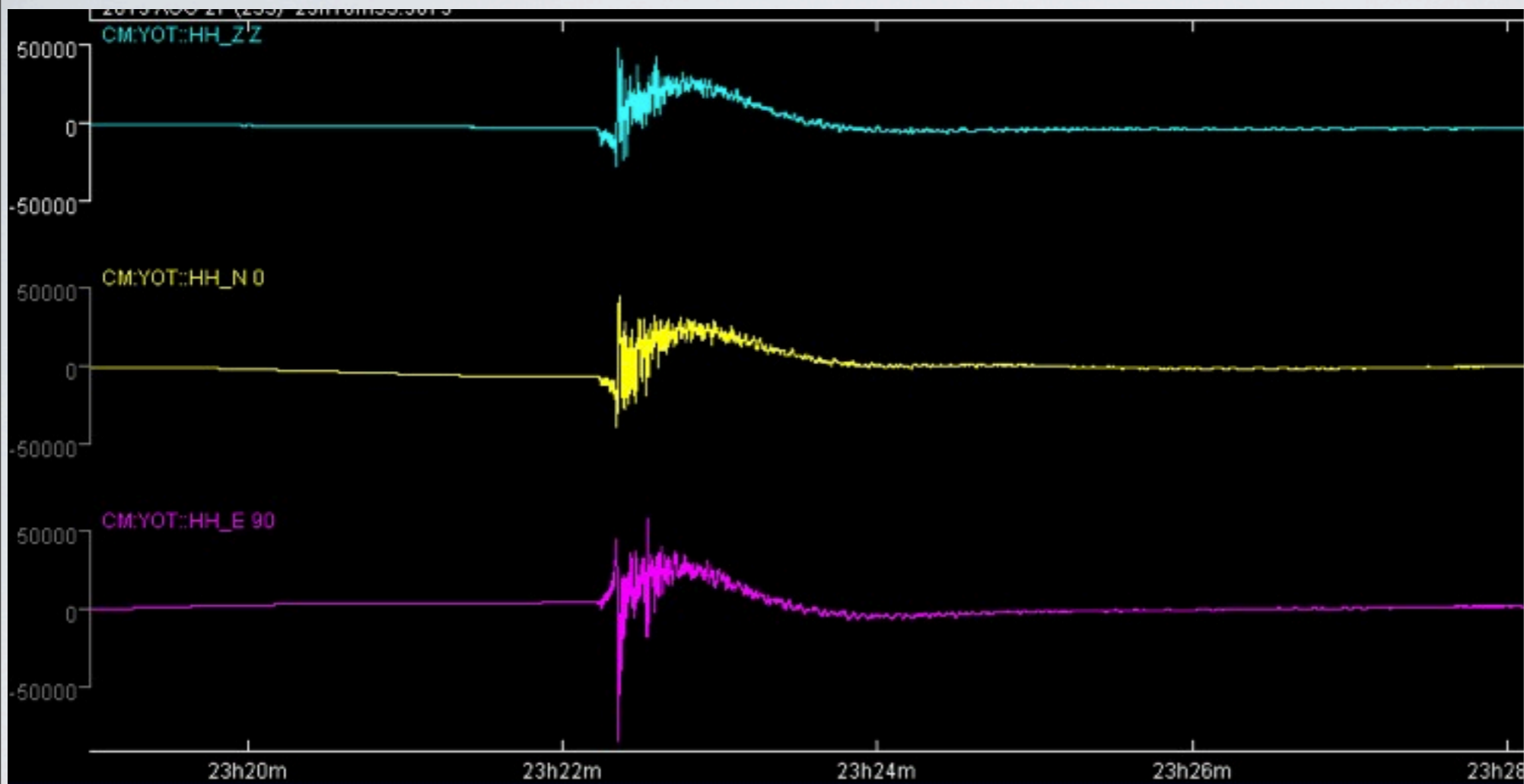
Displacement (m). Inversion band (Hz) 0.04 0.05 0.08 0.1

Gray waveforms weren't used in inversion.

Blue numbers are variance reduction



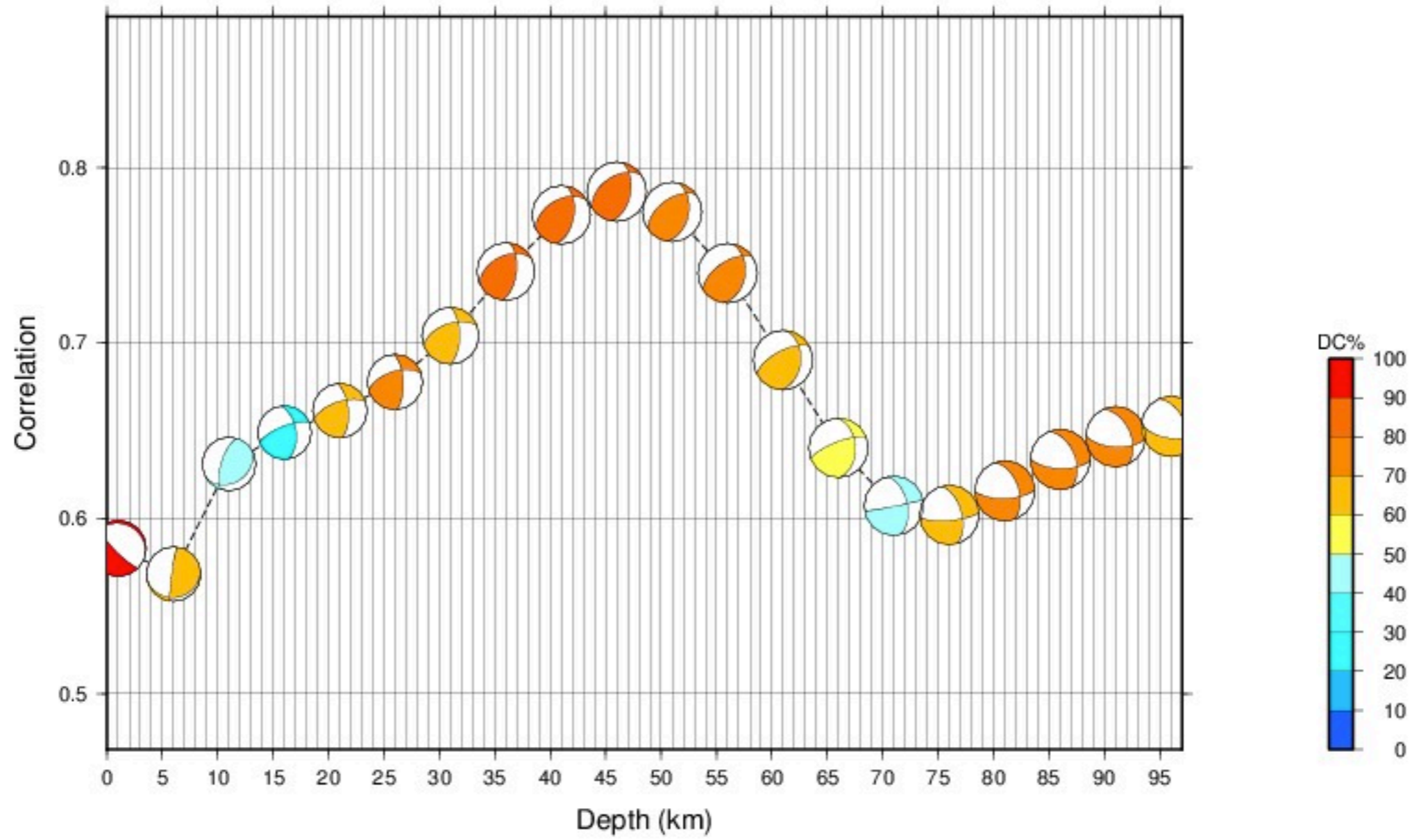
# results



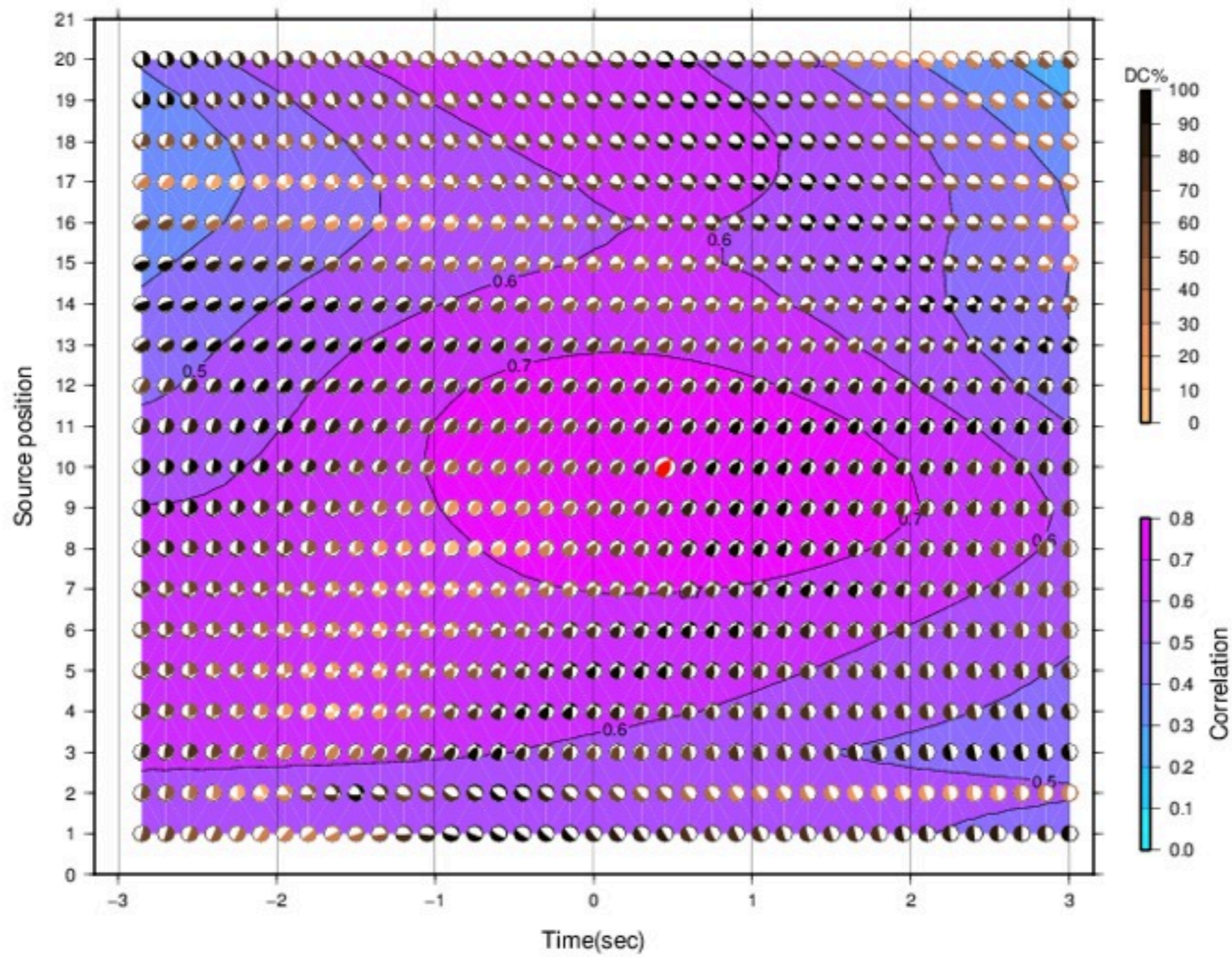
results

Mouse tale effect in YOT

Correlation vs Depth Plot



# RESULTS



results



Origin time 20130827 23:22:04.00  
 Lat 3.913 Lon -76.82 Depth 4

**CENTROID**

Trial source number : 10 (Fixed Epicenter inversion)  
 Centroid Lat (N)3.913 Lon (E)-76.82  
 Centroid Depth (km) : 46  
 Centroid time : +0.6 (sec) relative to origin time

Moment (Nm) : 1.352e+16

Mw : 4.7

VOL% : 0

DC% : 84.9

CLVD% : 15.1

Var.red. : (for stations used in inversion) : 0.51 SNR CN FMVAR STVAR  
 NaN 3.3 12±8 0.10

Var.red. (for all stations) : 0.051

Strike Dip Rake | Frequency band used in inversion (Hz)  
 236 49 125 | 0.04 - 0.05 -- 0.08 - 0.1

Strike Dip Rake | Stations-Components Used-Distance  
 10 52 57 |

----- | NS EW Z D (km)

P-axis Azimuth Plunge | YOT - - - 53

123 1 | PAL - + - 125

T-axis Azimuth Plunge | MARA + + + 153

216 65 | POP2 + + - 153

----- | PCON + + + 181

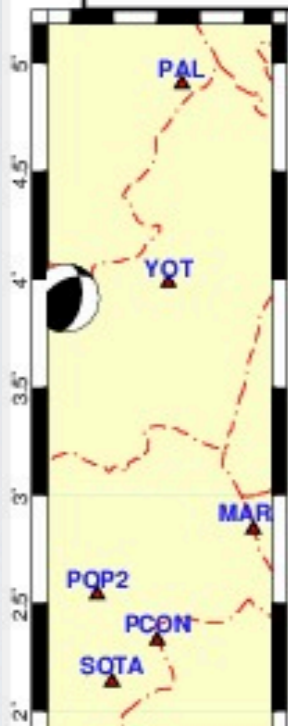
Mrr Mtt Mpp | SOTA - - - 198

1.077 -0.194 -0.883

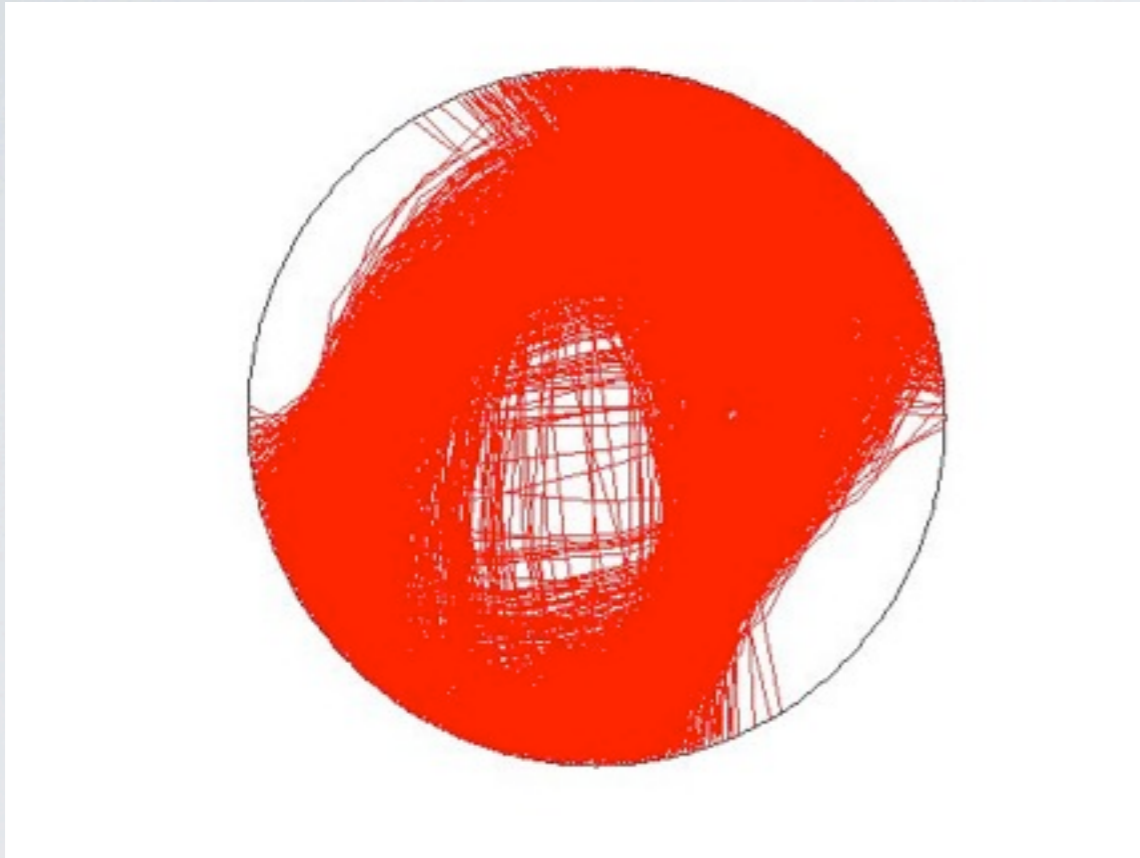
Mrt Mrp Mtp

-0.352 0.302 -0.790

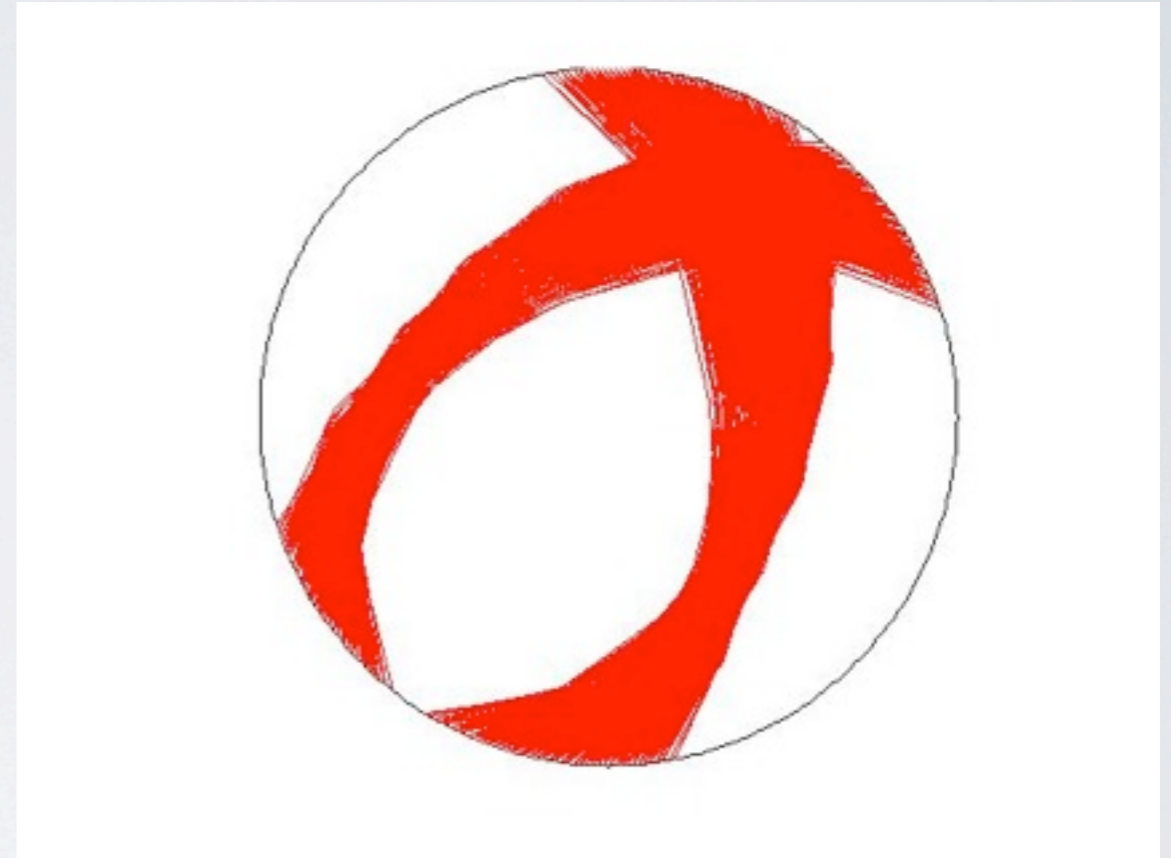
Exponent (Nm) : 16



# Results



Uncertainty results without  
YOT



Uncertainty results using  
YOT