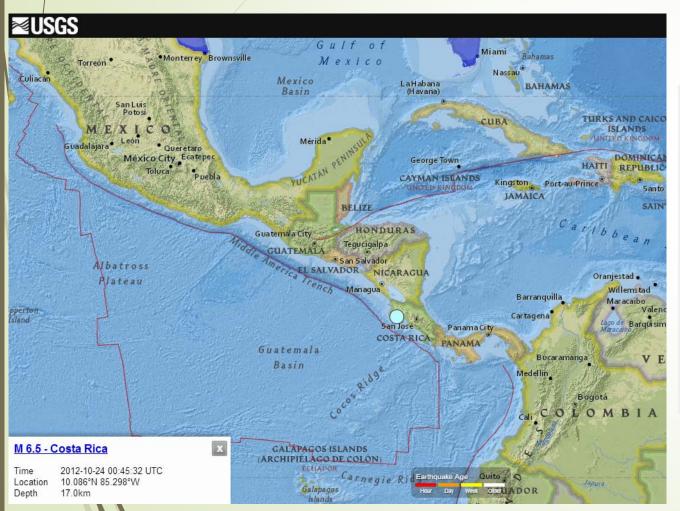
# Isola

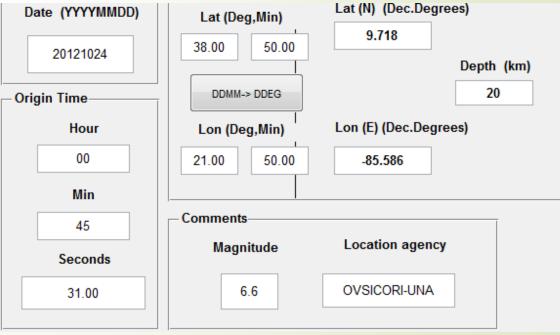
Vinicius Martins Ferreira

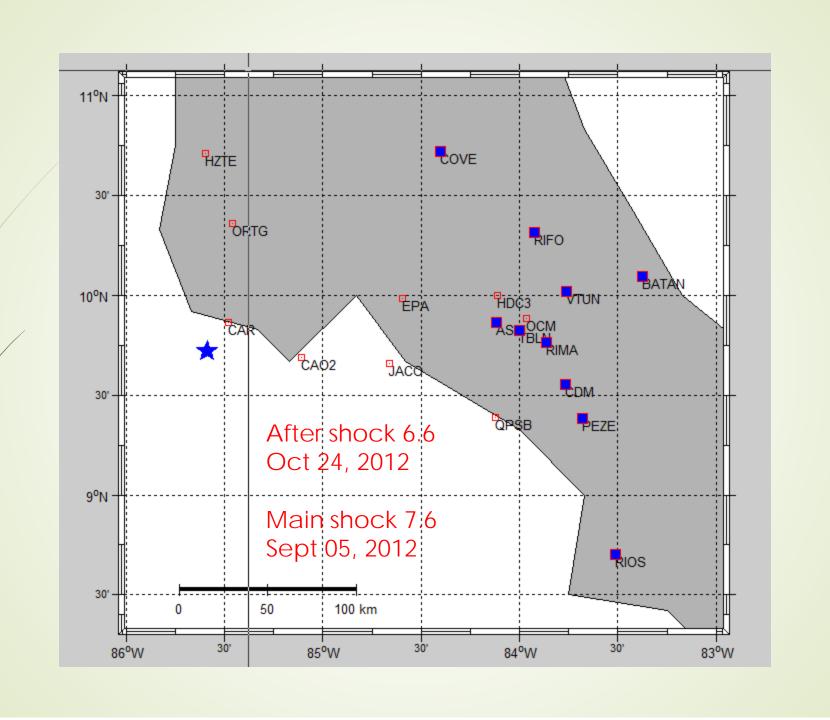
University of Brasilia

v.ferreira@outlook.com

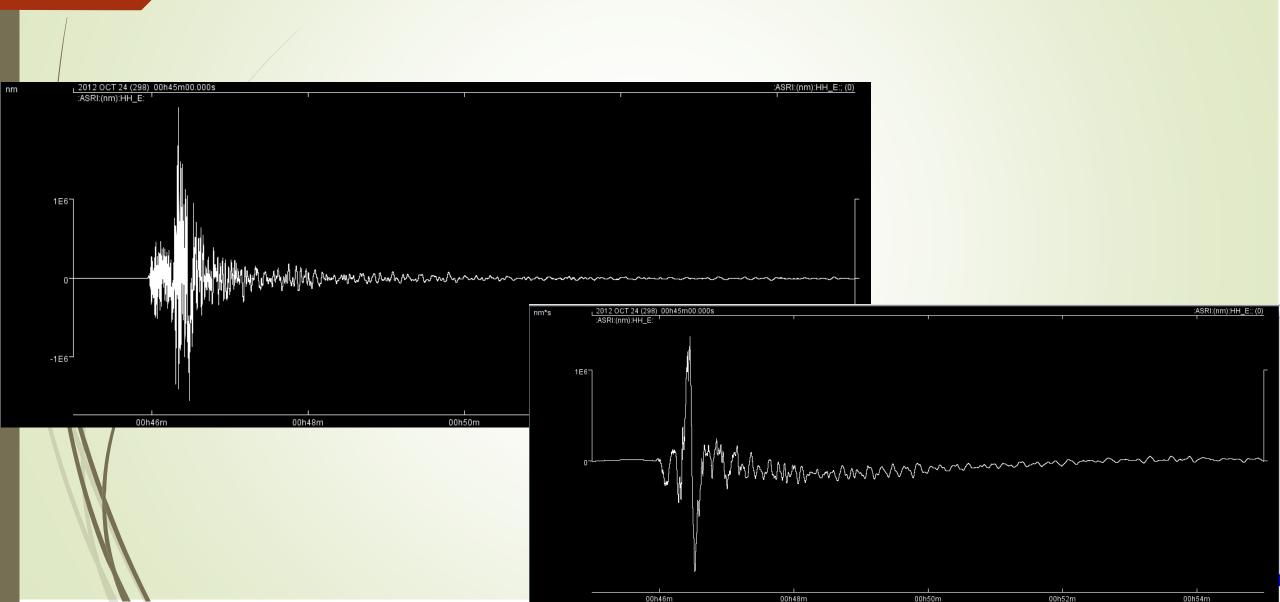
#### Eventinfo





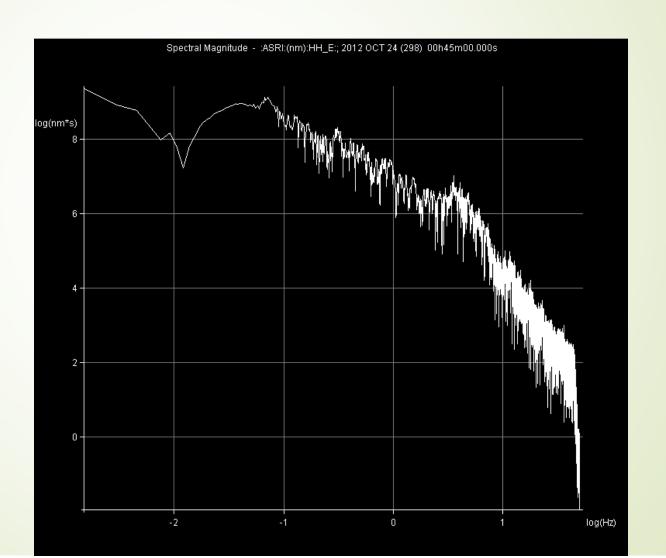




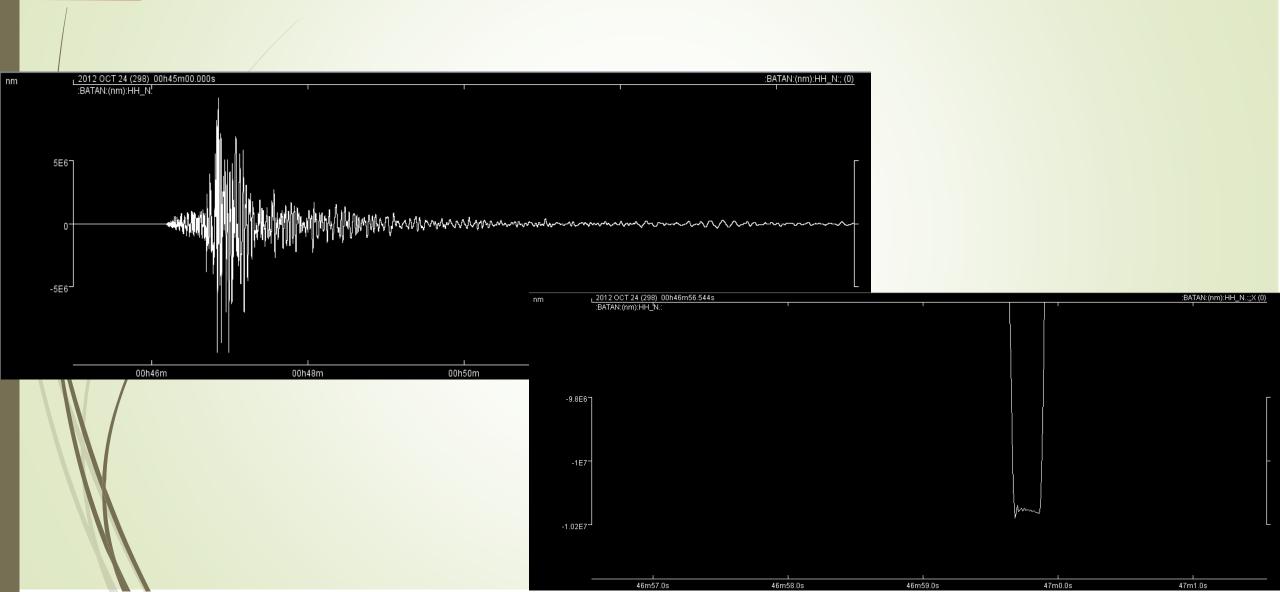


## **ASRI**

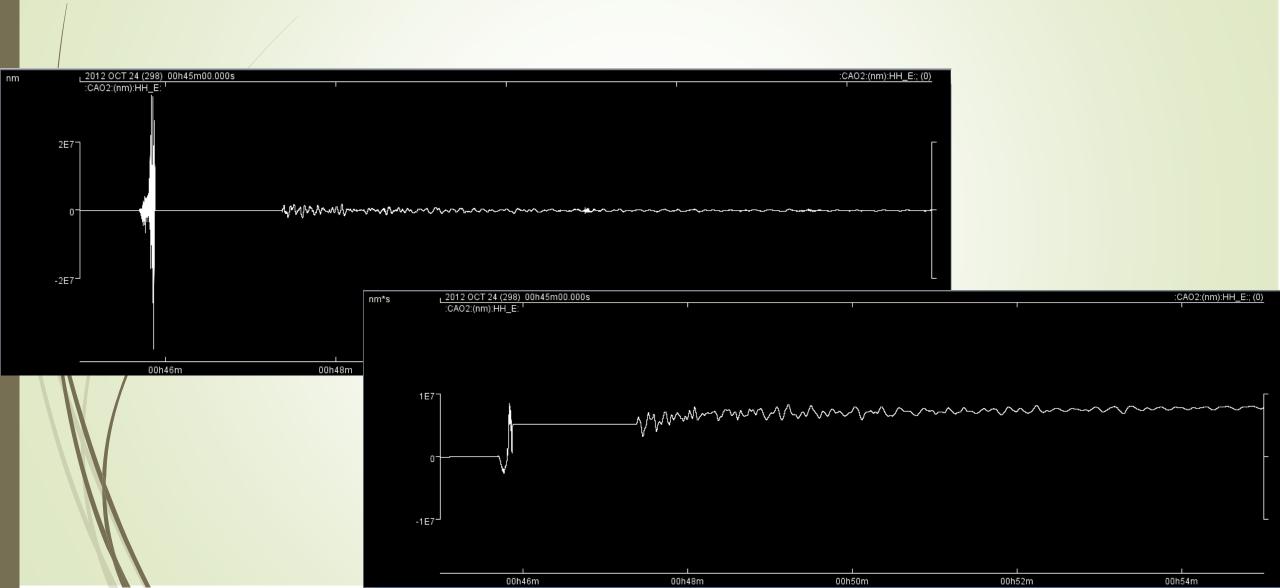


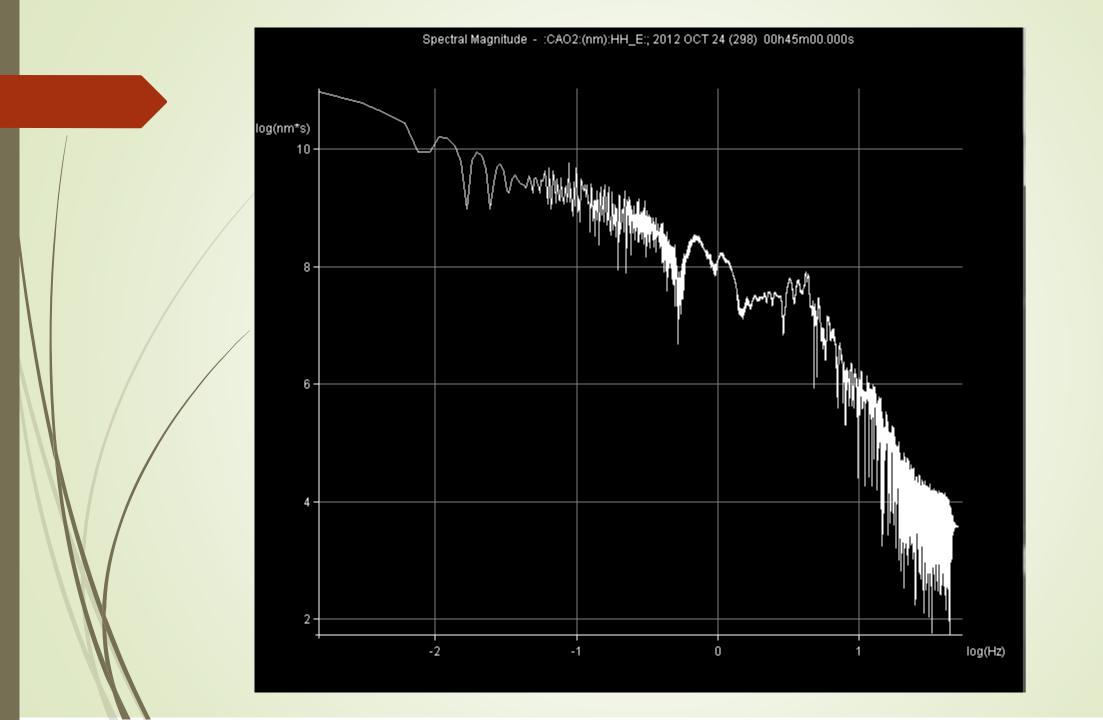




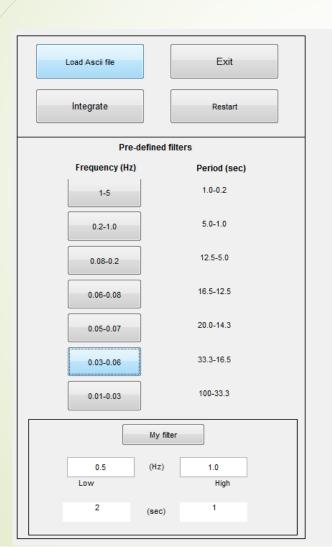


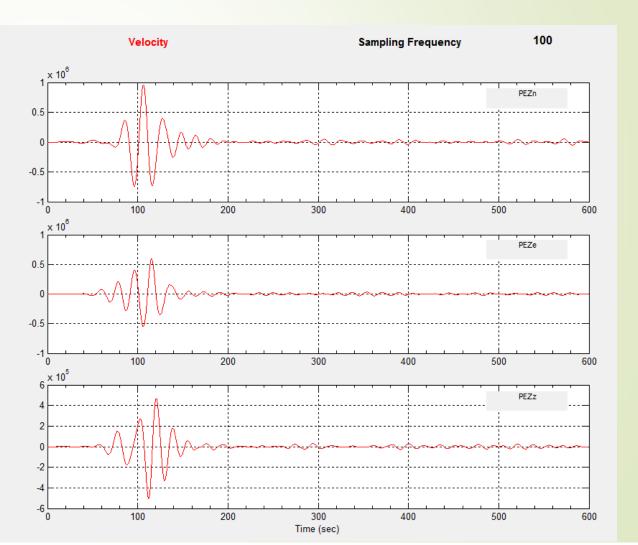


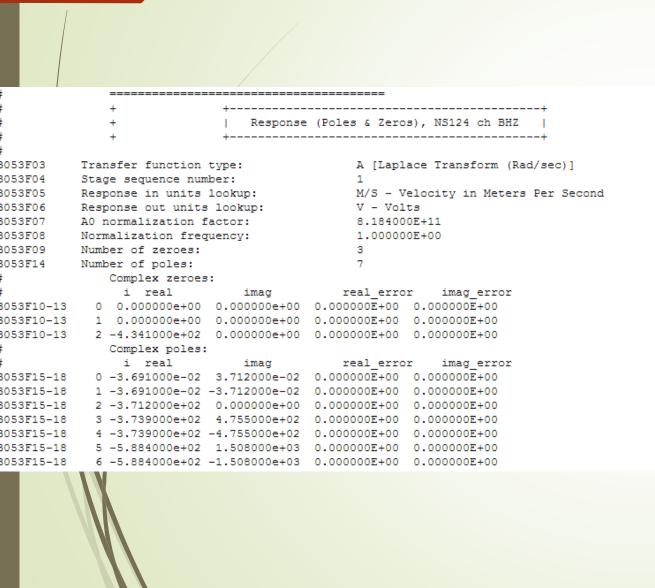


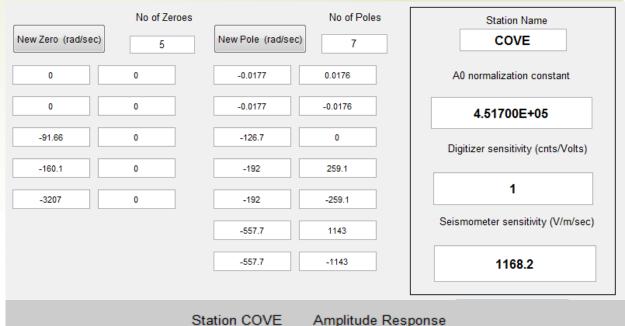


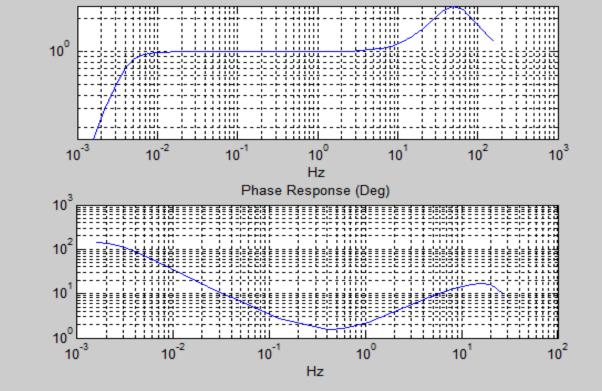
## Filters



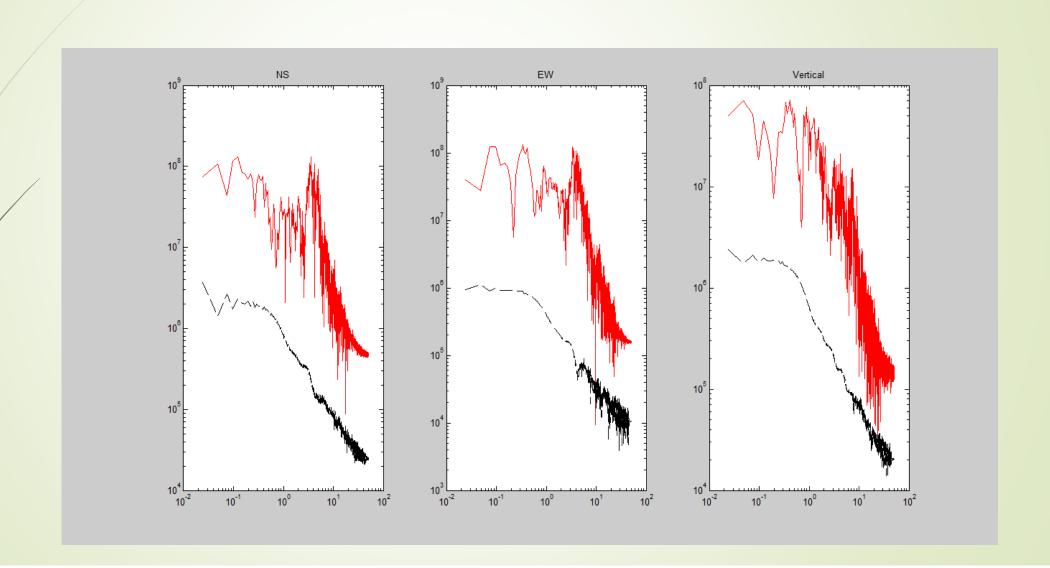




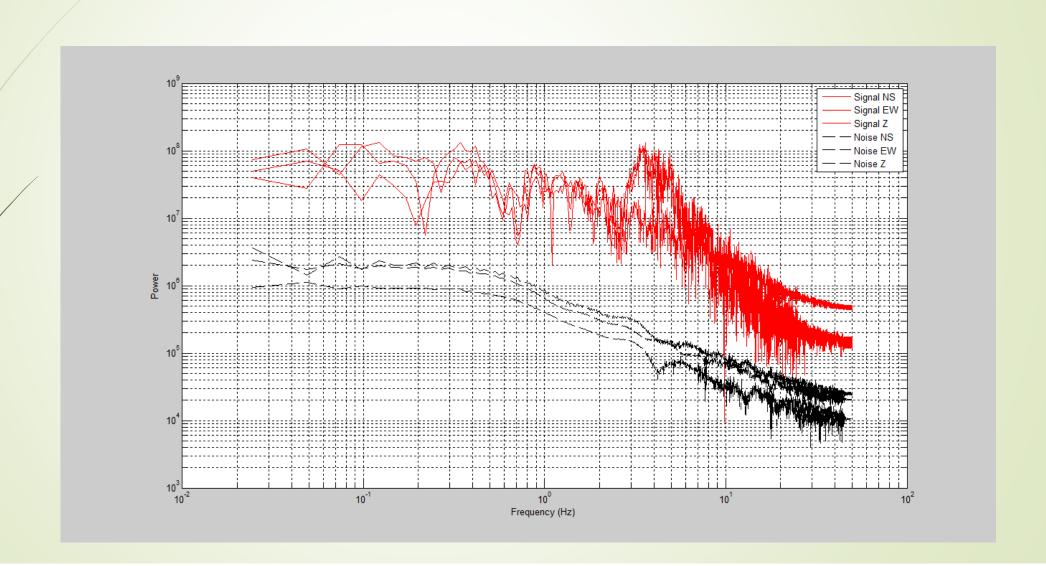




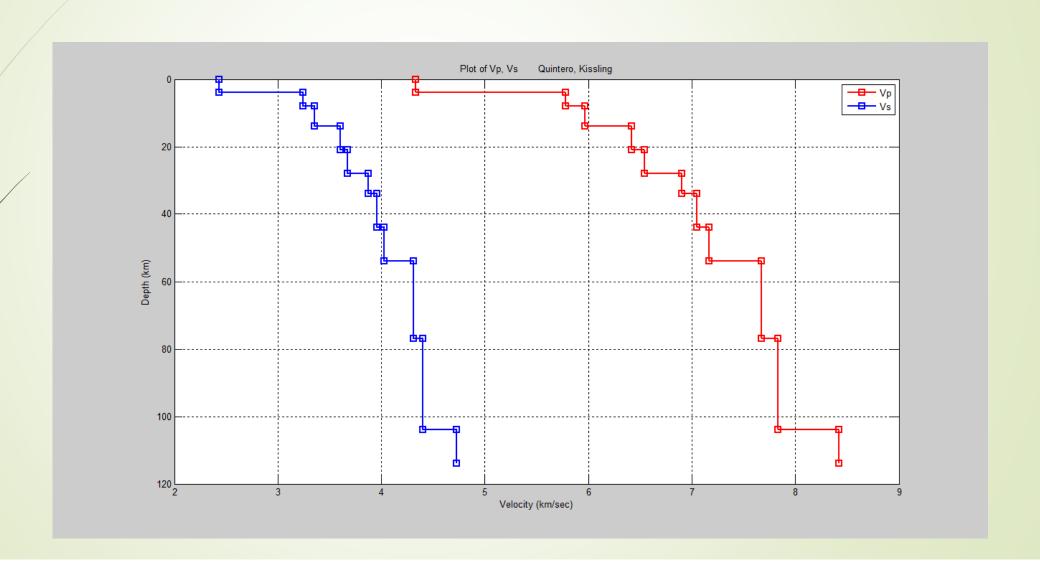
## SNR for COVE Station



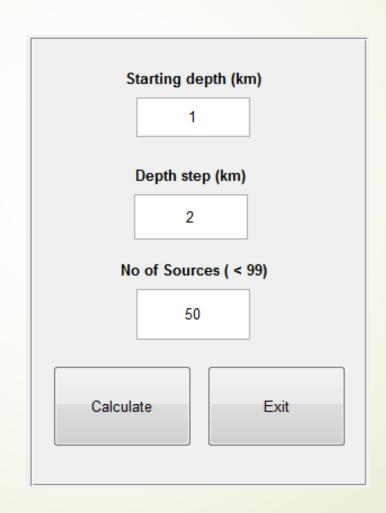
## **SNR** for COVE Station



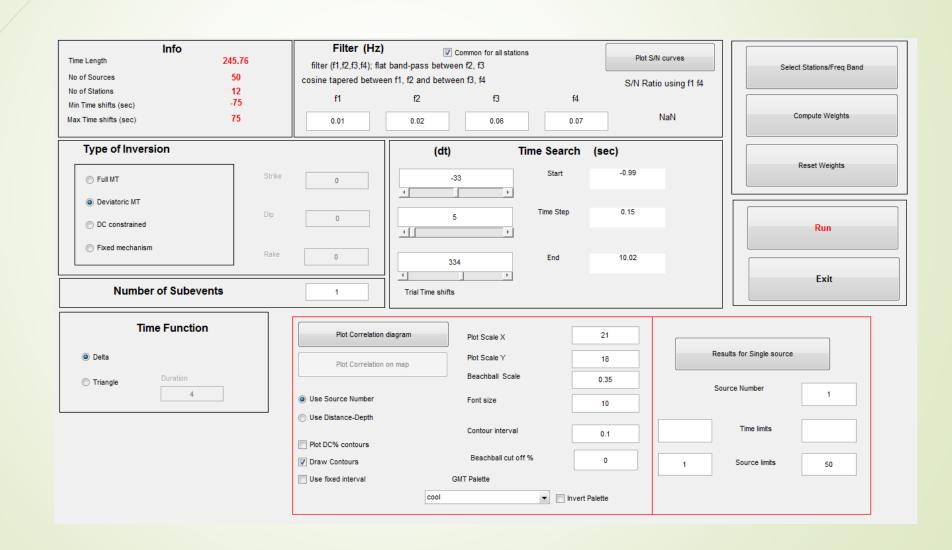
# Velocity Model



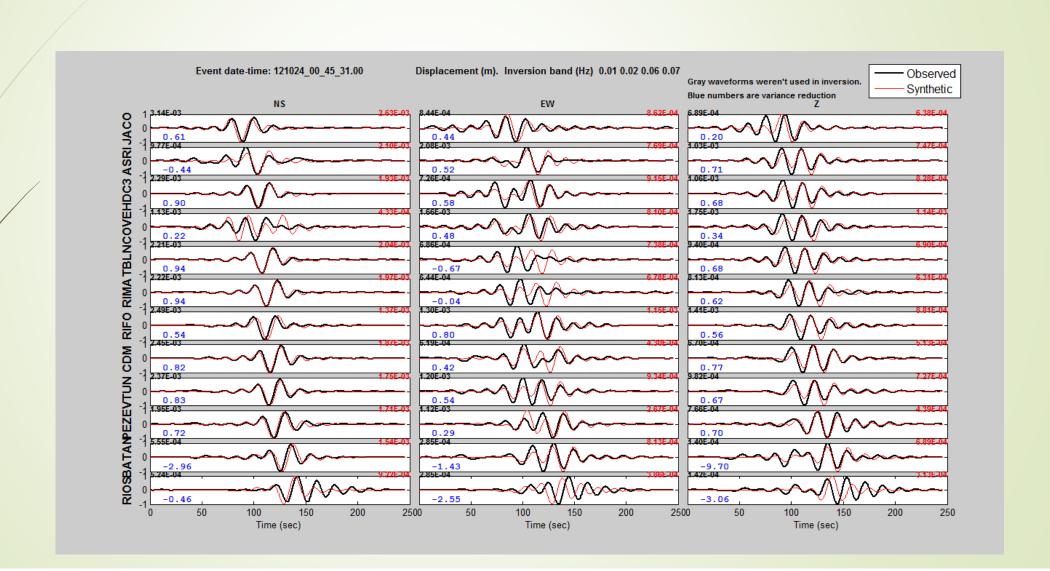
## Seismic Source Definition



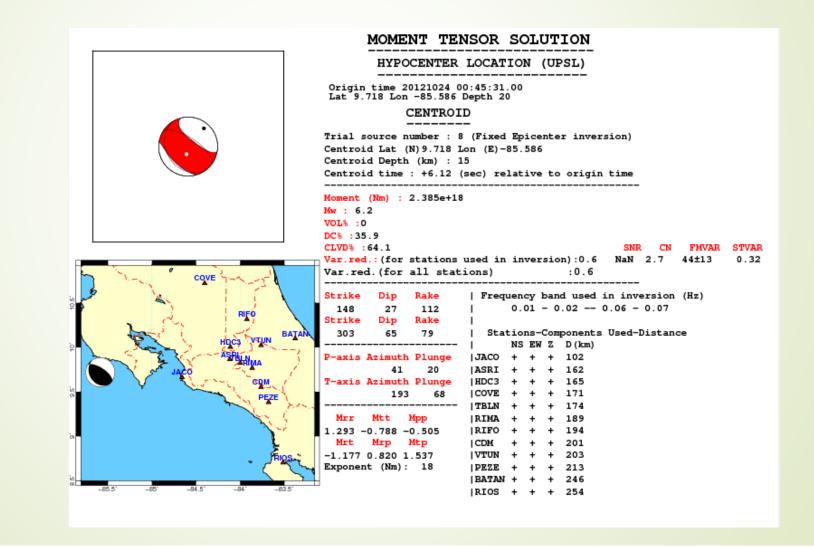
## Inversion



### First Results

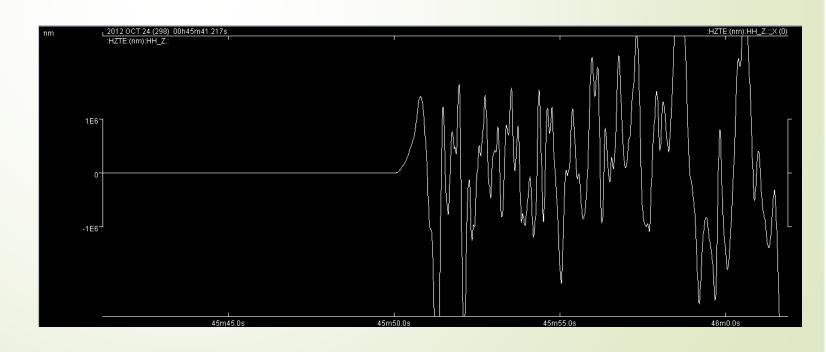


#### First Results

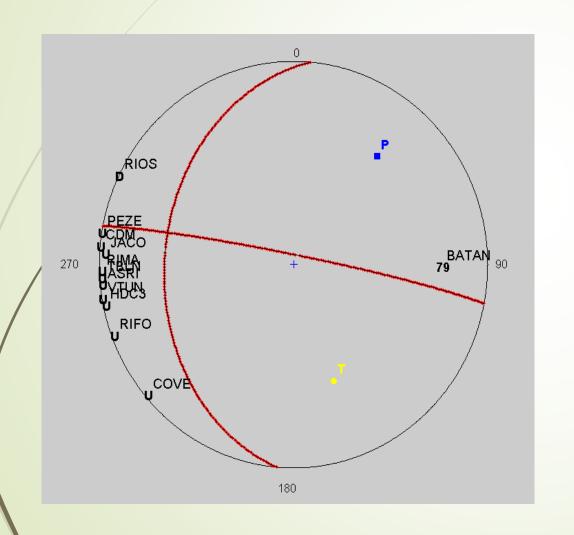


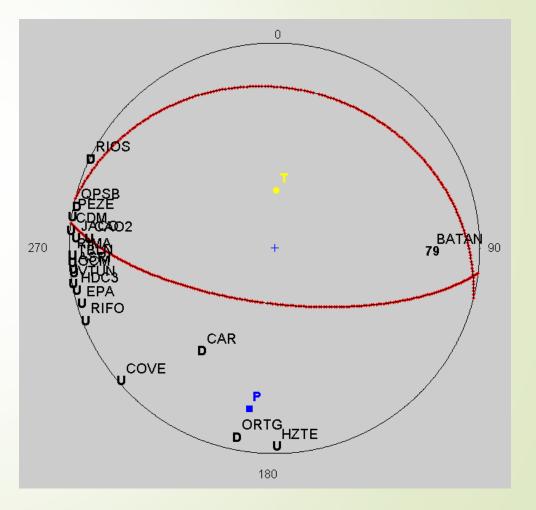
## Polarities For All Stations

STAT	LAT	LONG	POL
OCM	9.8841	-83.9623	U
CDM	9.5537	-83.7637	U
HDC3	10.0021	-84.1114	U
PEZE	9.3826	-83.6775	U
RIFO	10.3173	-83.9227	U
COVE	10.7195	-84.4019	U
RIOS	8.7005	-83.5144	D
BATAN	10.0978	-83.3761	U
ASRI	9.8646	-84.1192	U
CAR	9.864	-85.4805	D
EPA	9.9863	-84.595	U
VTUN	10.0226	-83.7635	U
TBLN	9.8237	-83.9993	U
RIMA	9.7666	-83.8636	U
QPSB	9.3919	-84.1239	D
ORTG	10.3623	-85.459	D
JACO	9.6625	-84.6595	U
CAO2	9.688	-85.107	U
HZTE	10.7137	-85.5954	U ,

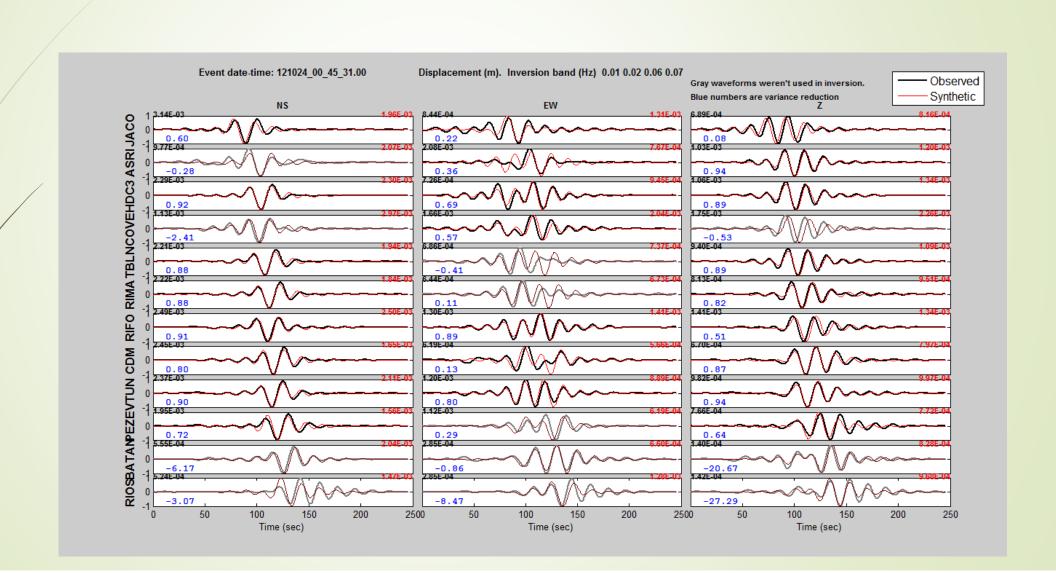


## Plot Polarities

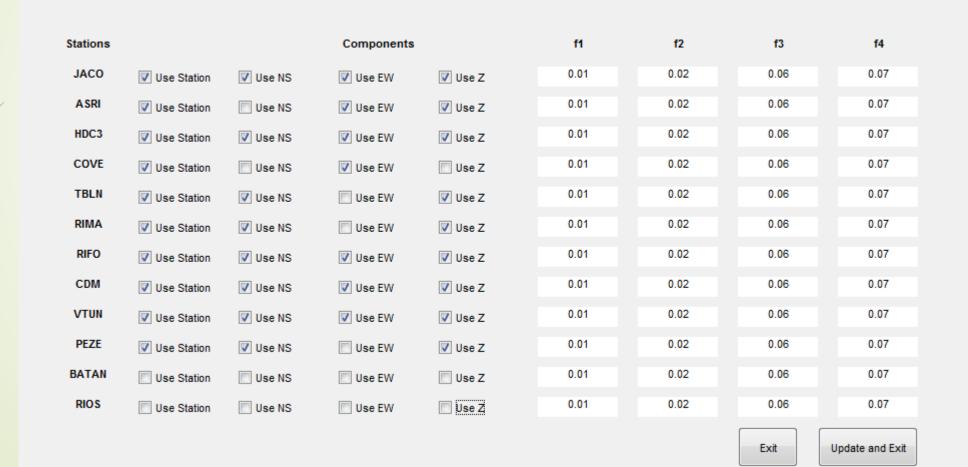




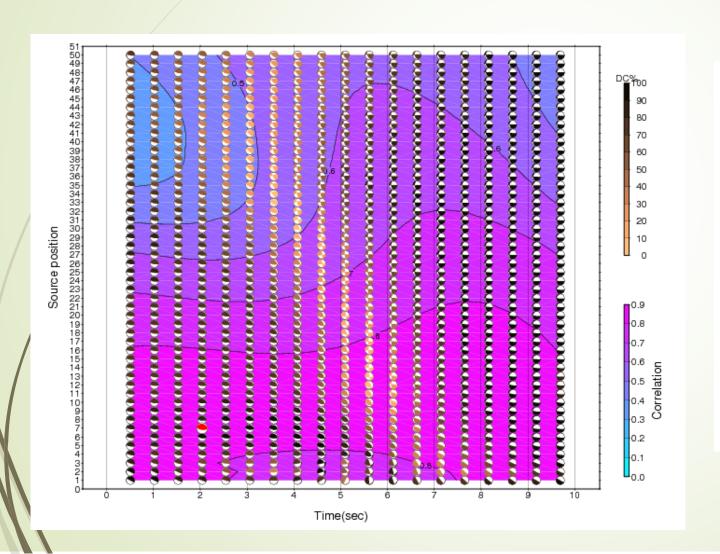
## Second chance

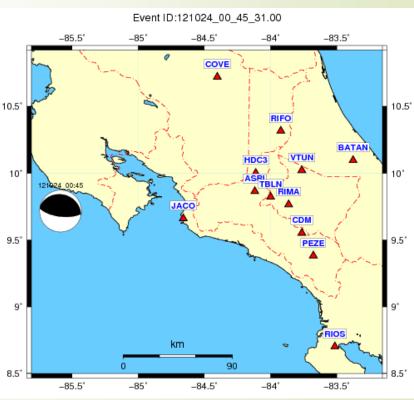


### Station Selection

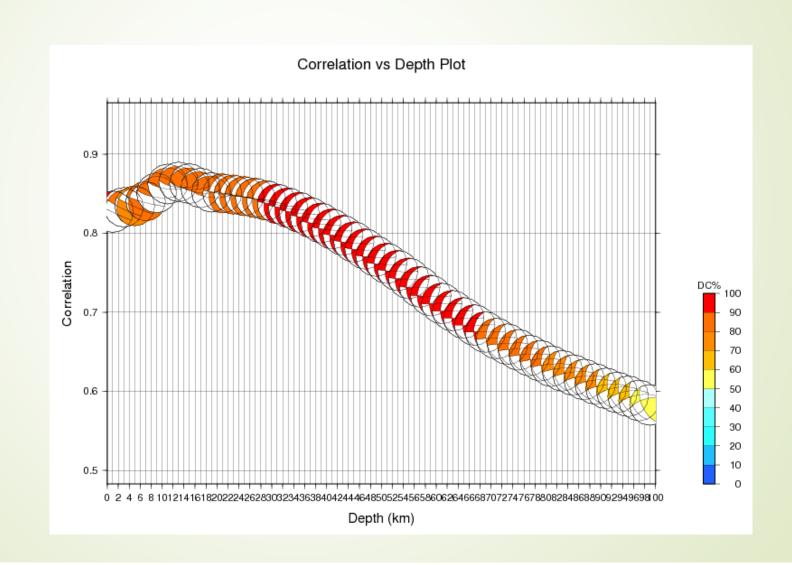


### Correlation Plot

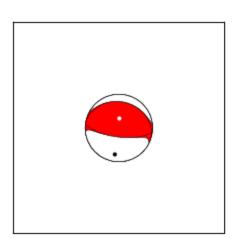




## Correlation vs Depth



#### Focal Mechanisms



#### MOMENT TENSOR SOLUTION

HYPOCENTER LOCATION (UPSL)

Origin time 20121024 00:45:31.00 Lat 9.718 Lon -85.586 Depth 20

#### CENTROID

Trial source number : 7 (Fixed Epicenter inversion)

Centroid Lat (N) 9.718 Lon (E) -85.586

Centroid Depth (km): 13

Centroid time : +2.04 (sec) relative to origin time

Moment (Nm) : 4.902e+18

Mw : 6.4 VOL% : 0

DC%:87.3

CLVD% :12.7 Var.red.: (for stations used in inversion):0.59

NS EW Z D (km)

Var.red.(for all stations) :0.51

Strike	Dip	Rake
97	68	87
Strike	Dip	Rake
284	23	97

Stations-Components Used-Distance

Frequency band used in inversion (Hz)

0.01 - 0.02 -- 0.06 - 0.07

P-axis Azimuth Plunge T-axis Azimuth Plunge

IJACO + + + 102 IHDC3 + + + 165 |COVE - + - 171

3.296 -3.507 0.212 Mrt Mrp Mtp

IVTUN + + + 203

3.443 -0.334 0.681 Exponent (Nm): 18

|BATAN - - - 246

|TBLN + - + 174 IRIMA + - + 189 IRIFO + + + 194 IRIOS - - - 254

#### USGS Centroid Moment Solution

#### COSTA RICA

12/10/24 00:45:34.21

Epicenter: 10.121 -85.314

MW 6.4

USGS CENTROID MOMENT TENSOR

12/10/24 00:45:48.70

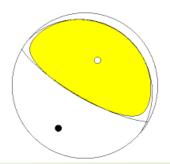
Centroid: 10.181 -84.976 Depth 10 No. of sta:102 Moment Tensor: Scale 10\*\*18 Nm

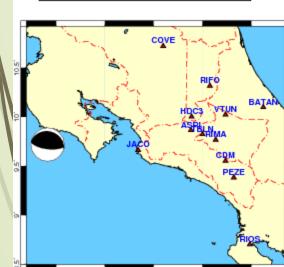
Mrr= 2.77 Mtt=-1.74 Mpp=-1.02 Mrt= 4.59 Mrp=-2.55 Mtp= 1.09

Principal axes:

T Val= 6.01 Plg=58 Azm= 27 -0.26 -5.76

Best Double Couple:Mo=5.9\*10\*\*18 NP1:Strike=120 Dip=77 Slip= 88 310 14 100





## Kagan

