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eventinfo

**Date**  
Date (YYYYMMDD)  
20010623

**Origin Time**  
Hour: 11  
Min: 06  
Seconds: 21.07

**Location**  
Lat (Deg,Min):    
DDMM->DDEG  
Lon (Deg,Min):    
Lat (N) (Dec.Degrees): -33.12  
Depth (km): 131.5  
Lon (E) (Dec.Degrees): -70.096

**Comments**  
Magnitude: 4.4  
Location agency: -

**Time Window Length (sec)**

- 16.384
- 40.96
- 81.92
- 163.84
- 245.76
- 327.68
- 409.6
- 819.2
- 1638.4

The chosen Time Window Length should be large enough to include the travel time from epicenter to stations plus the seismogram duration

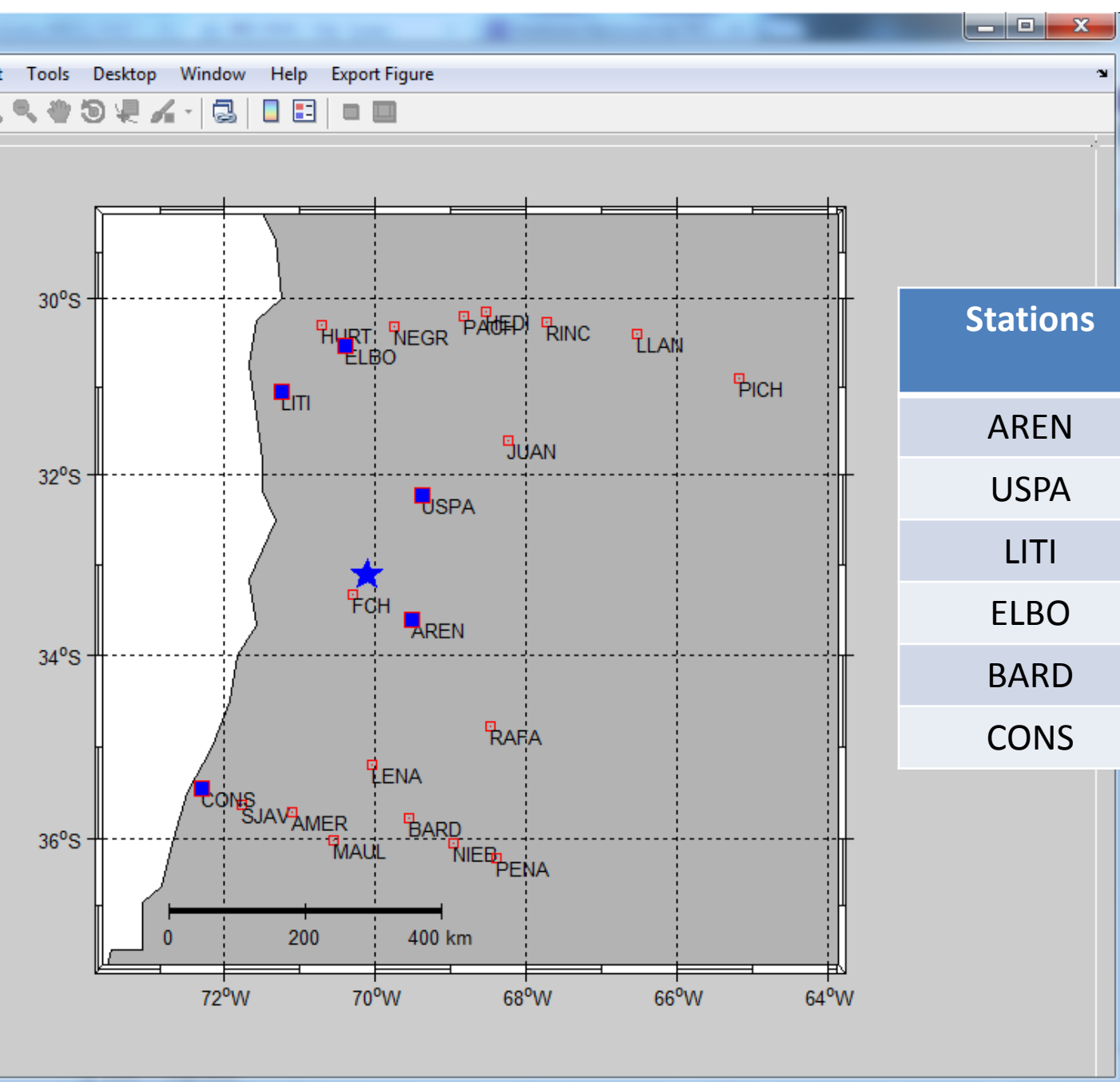
**Automatic form fill**  
e.g. 20100118 1556 8.38 38 25.19 21E55.44 8.29 5.23

Paste your EventInfo here

Save

Exit

Read

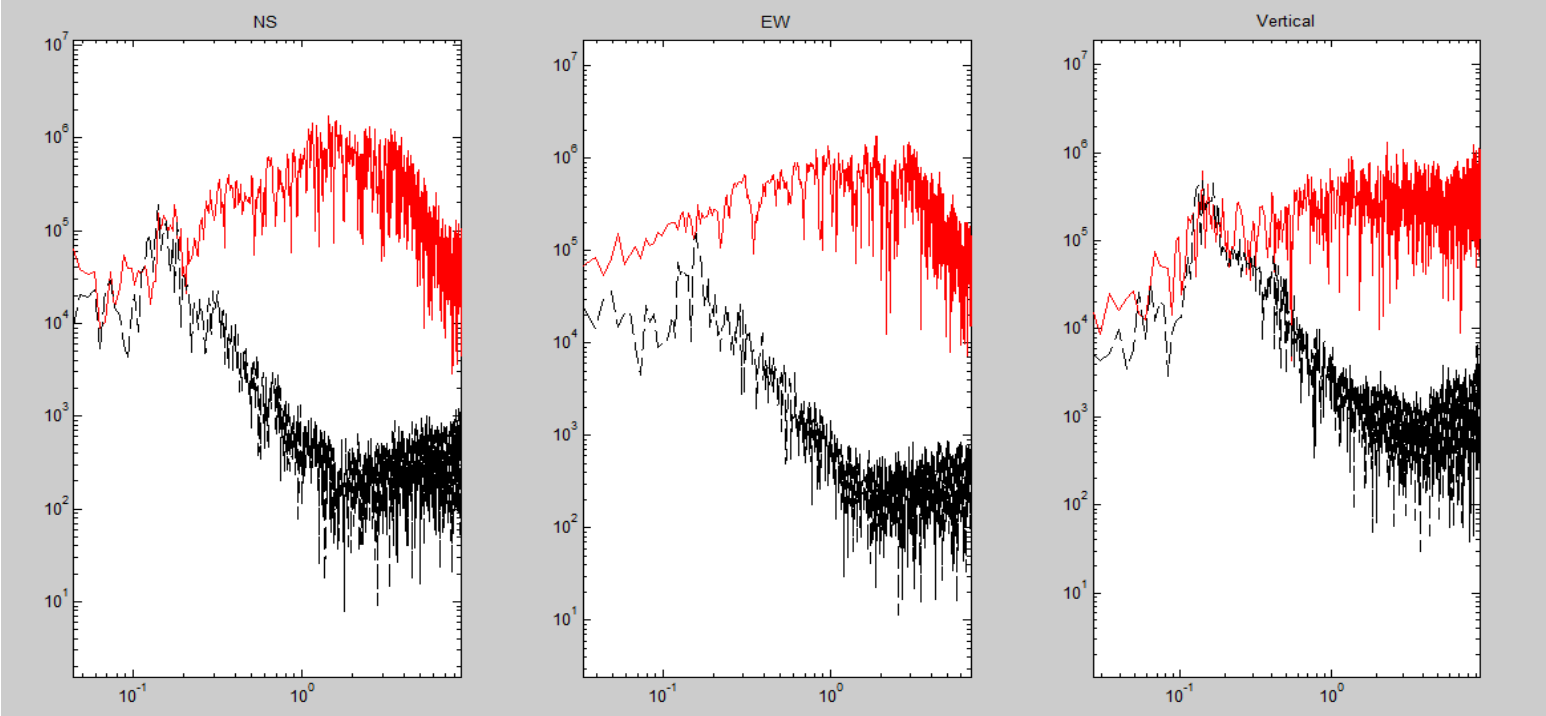


Stations	Epicentral Distance (km)
AREN	77
USPA	120
LITI	253
ELBO	289
BARD	171
CONS	217

# Noise boundary frequency

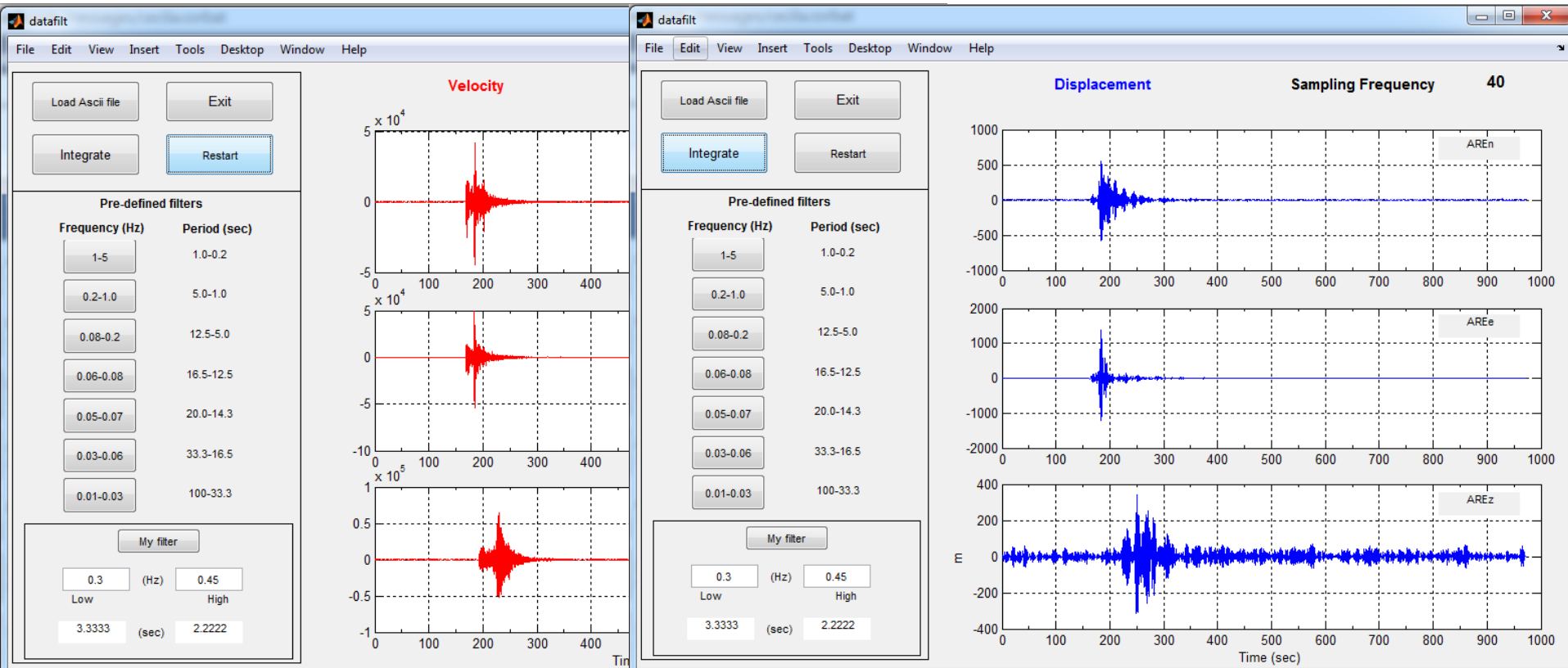
	NS	EW	Z
AREN	0.3	0.3	1
BARD	0.6	0.6	0.6
CONS	0.4	0.4	0.4
ELBO	0.4	0.4	0.4
LITI	0.5	0.5	0.5
USPA	0.4	0.4	0.4

AREN



# TRY FILTERS

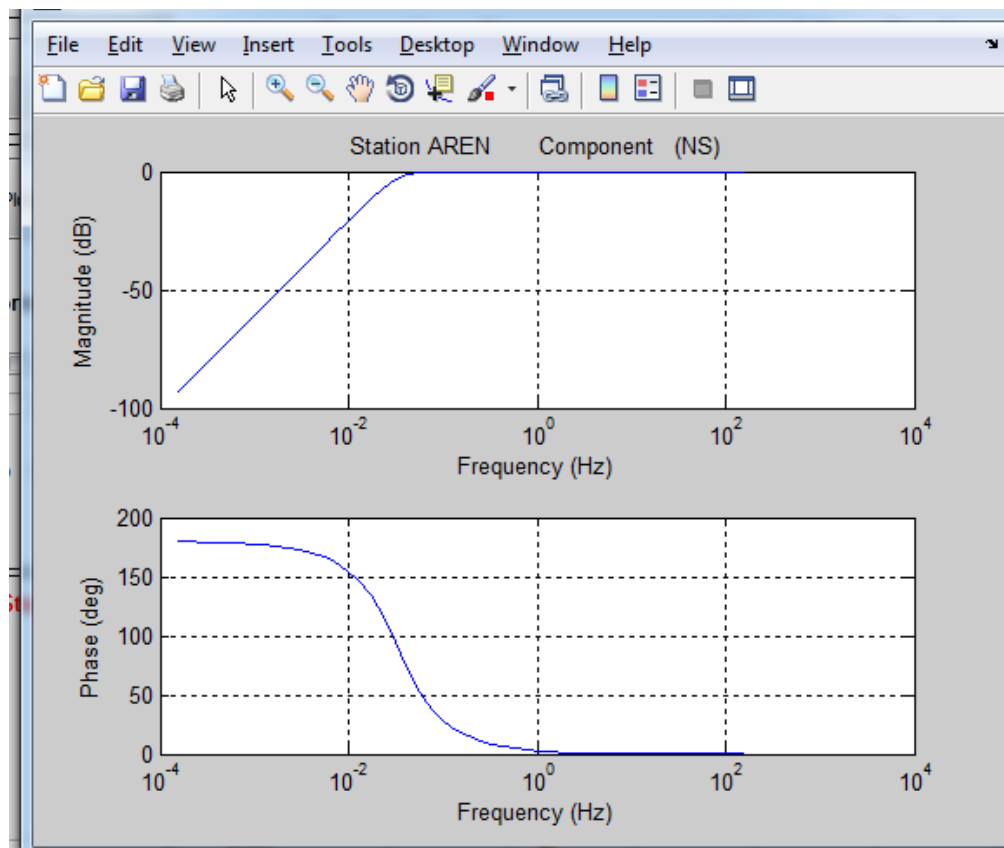
	Frequency Range
AREN	0.3 – 0.45
BARD	0.5 – 0.8
CONS	0.5 – 0.8
ELBO	0.45 – 0.6
LITI	0.5 – 0.6
USPA	0.6 – 0.8

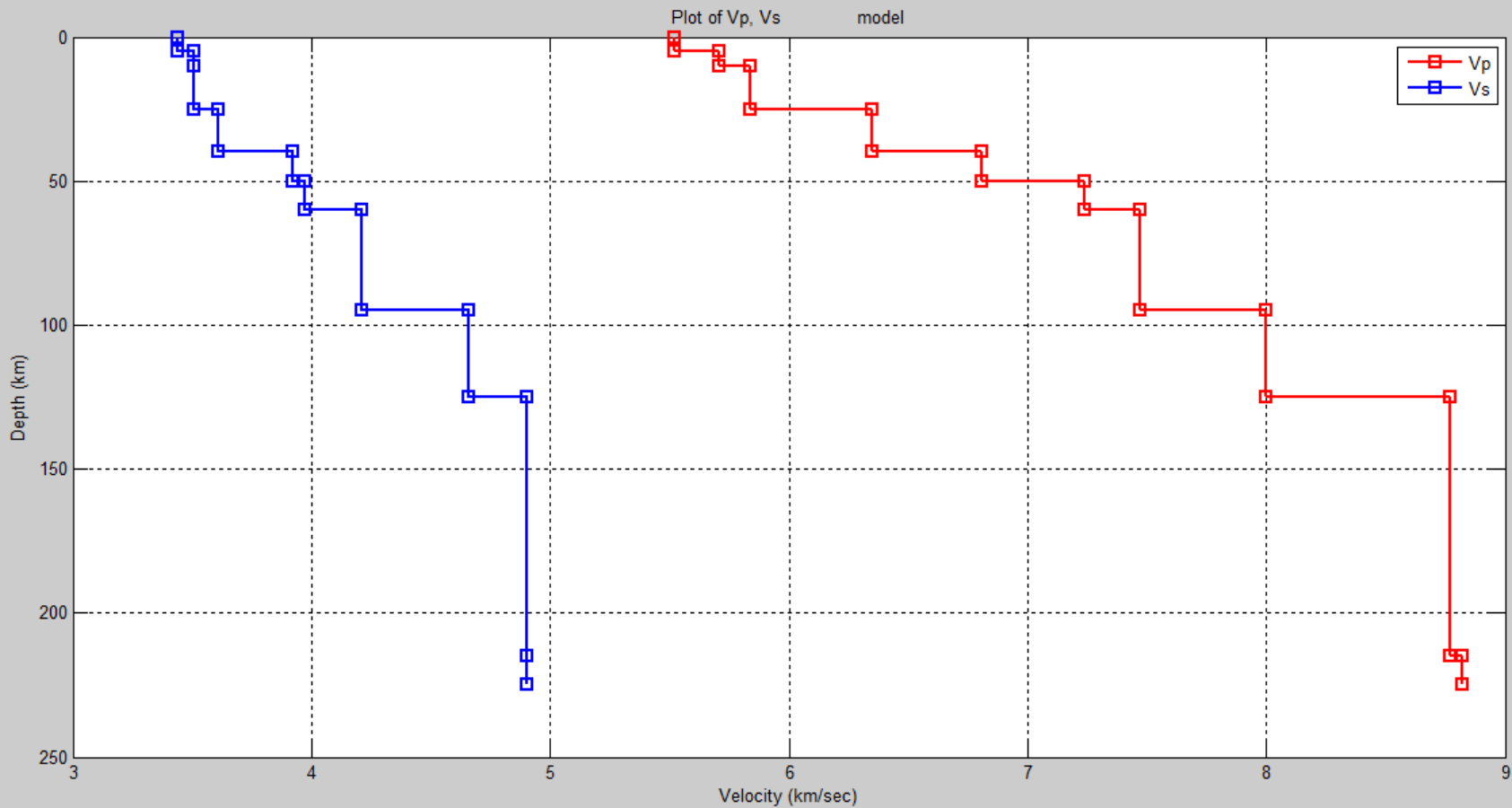


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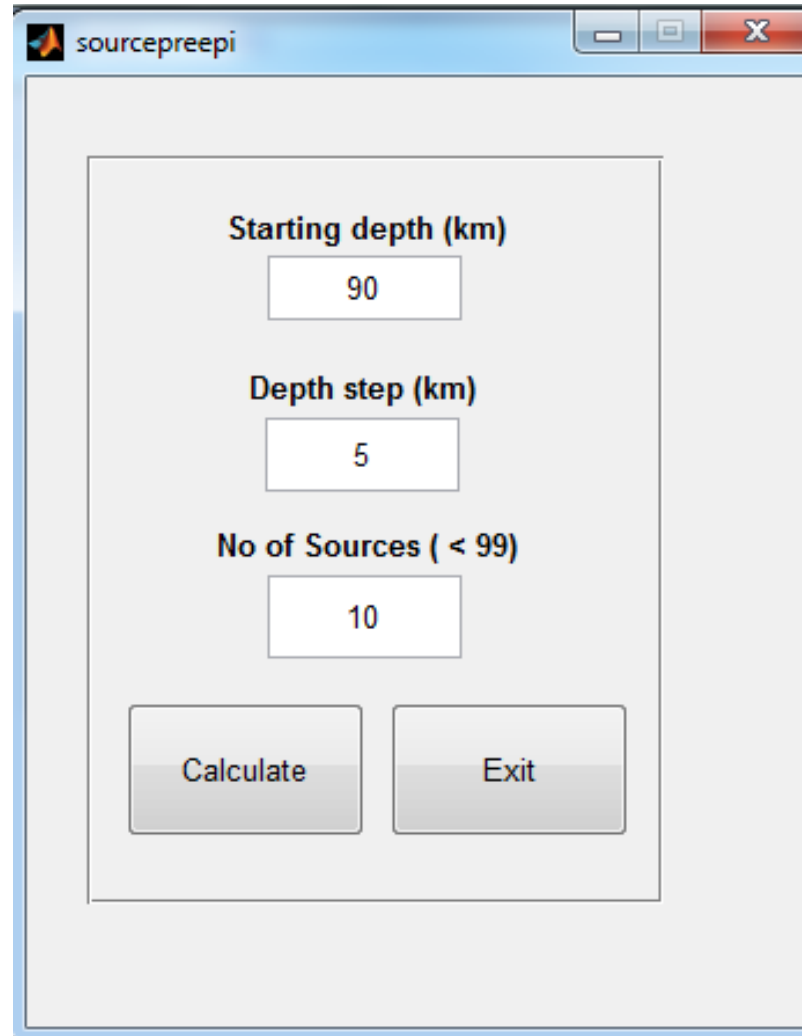
A0
1
count-->m/sec
2.384186e-009
zeroes
2
0.000000e+000      0.000000e+000
0.000000e+000      0.000000e+000
poles
2
-1.481000e-001      1.481000e-001
-1.481000e-001      -1.481000e-001
Info: 03-Nov-2013 ARE Digi sens 524288 seism sens 800

```





# SEISMIC SOURCE DEFINITION



The image shows a software window titled "sourceprepi" with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area is a light gray rectangle containing a smaller, slightly darker gray rectangle. Inside this inner rectangle, the following parameters are displayed:

- Starting depth (km)**: A text label above a white input box containing the number "90".
- Depth step (km)**: A text label above a white input box containing the number "5".
- No of Sources (< 99)**: A text label above a white input box containing the number "10".

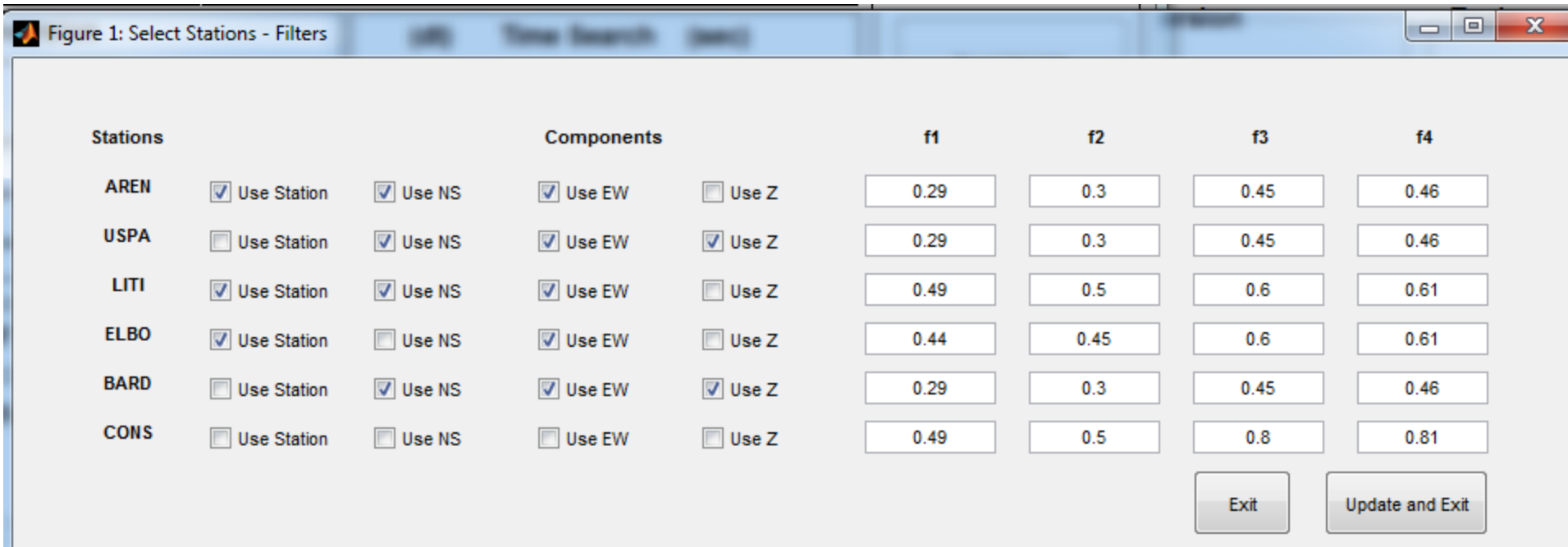
At the bottom of the inner rectangle, there are two gray buttons with rounded corners and a slight gradient. The left button is labeled "Calculate" and the right button is labeled "Exit".

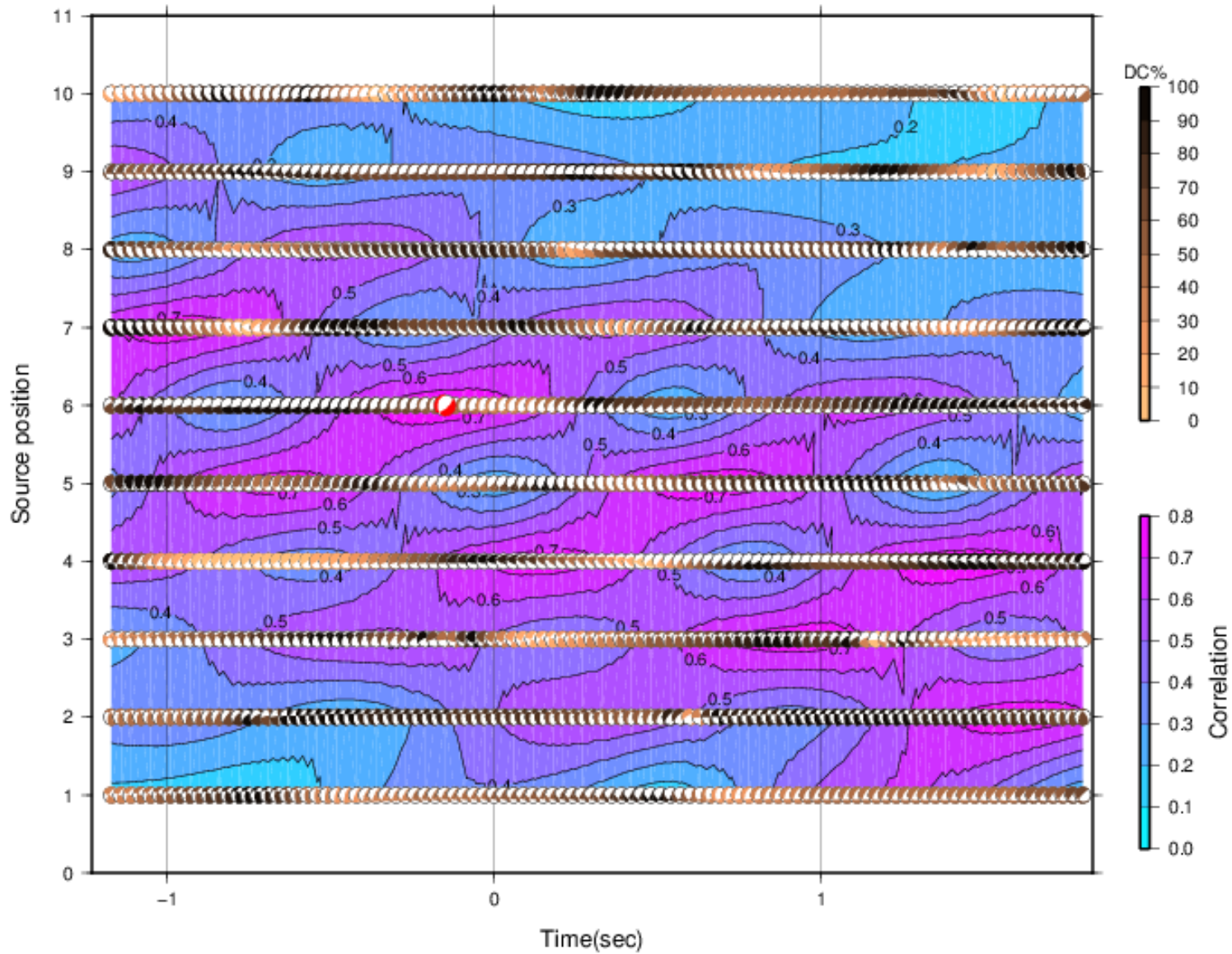


# GREEN FUNCTION COMPUTATION

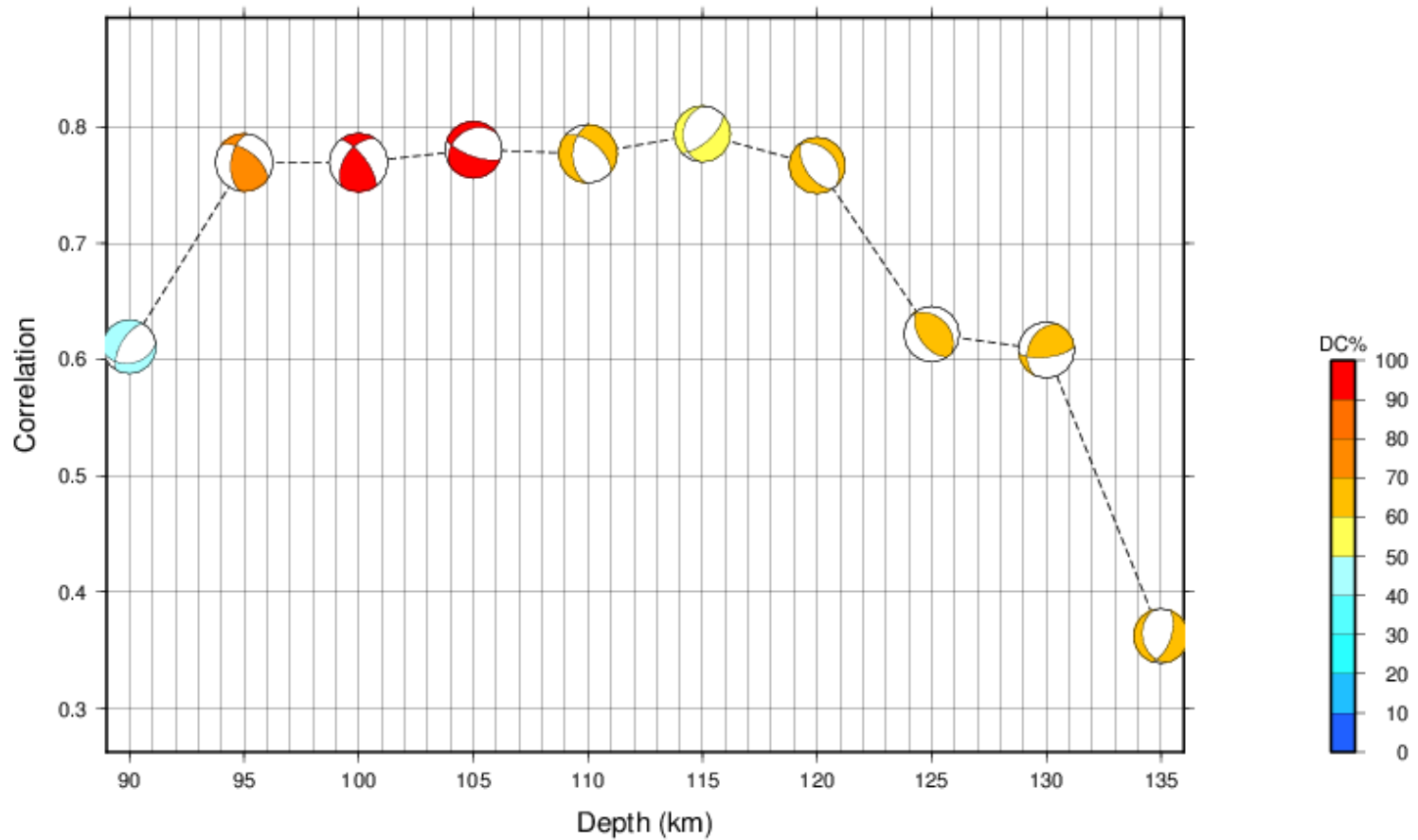
The screenshot shows a software window titled 'greenpre' with standard window controls (minimize, maximize, close) in the top right corner. The interface is divided into several sections:

- Maximum Frequency to compute (Hz):** A text label followed by a text input field containing the value '0.89925'.
- Time Function:** Two radio button options: 'Delta' (which is selected) and 'Triangle'. To the right of the 'Triangle' option is a text input field labeled 'Duration' containing the value '3'.
- Green Function computation parameters:** A section containing three rows of data:
  - Time length:** 245.76
  - No of Sources:** 10
  - No of Stations:** 6The numerical values are displayed in red text.
- Control Buttons:** Two large, vertically stacked buttons labeled 'Run' and 'Exit' are located on the right side of the window.





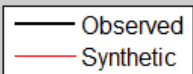
Correlation vs Depth Plot



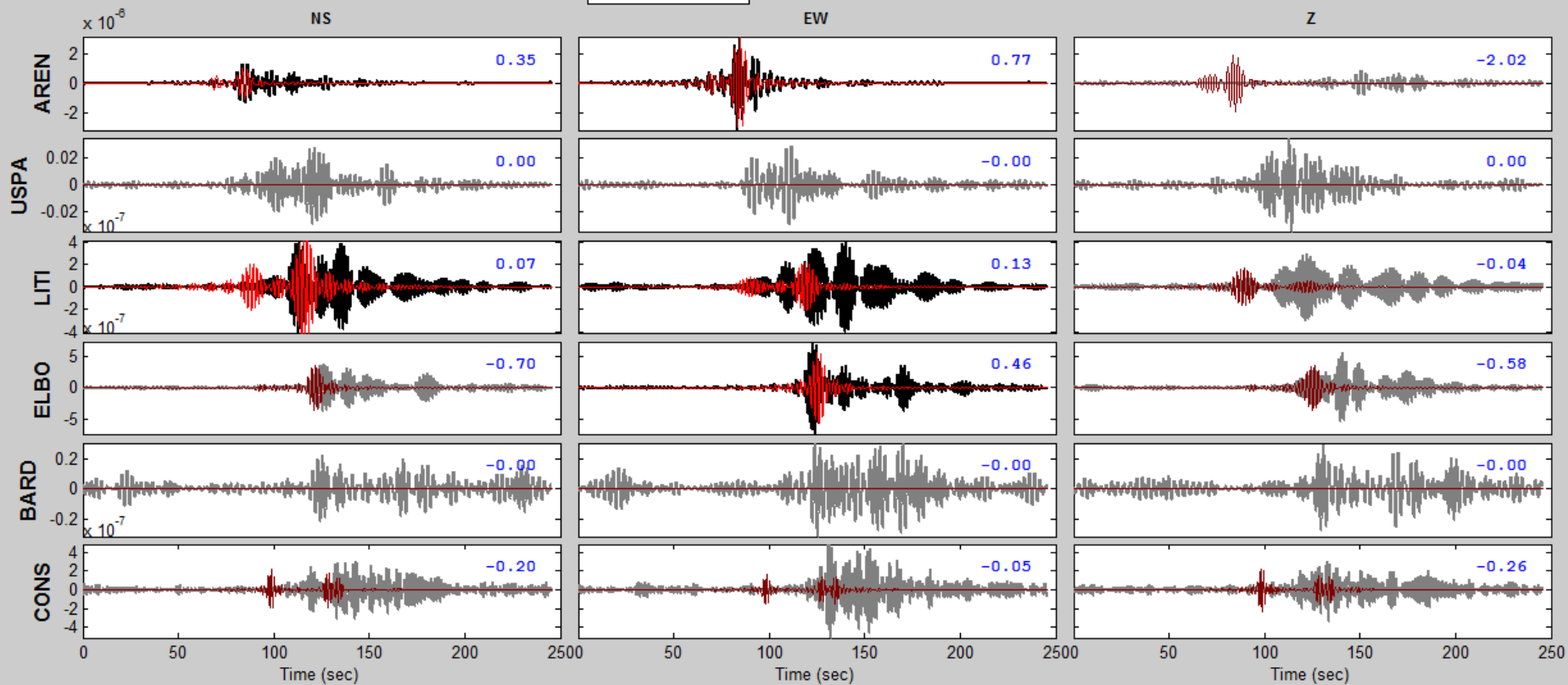
Event date-time: 010623\_11\_06\_21.07

Displacement (m). Inversion band (Hz) 0.29 0.3 0.45 0.46

Gray waveforms weren't used in inversion.



Blue numbers are variance reduction



# MOMENT TENSOR SOLUTION

## HYPOCENTER LOCATION (-)

Origin time 20010623 11:06:21.07  
Lat -33.12 Lon -70.096 Depth 131.5

## CENTROID

Trial source number : 6 (Fixed Epicenter inversion)  
Centroid Lat (N)-33.12 Lon (E)-70.096  
Centroid Depth (km) : 115  
Centroid time : -0.15 (sec) relative to origin time

Moment (Nm) : 5.305e+15

Mw : 4.4

VOL% : 0

DC% : 51.5

CLVD% : 48.5

Var.red.:(for stations used in inversion):0.31    SNR    CN    FMVAR    STVAR  
   NaN    13.3    73±30    0.09

Var.red.(for all stations)                        : -2.7e-07

Strike	Dip	Rake	Frequency band used in inversion (Hz)
48	66	-70	0.29 - 0.3 -- 0.45 - 0.46

Strike	Dip	Rake	Stations-Components Used-Distance
186	31	-128	

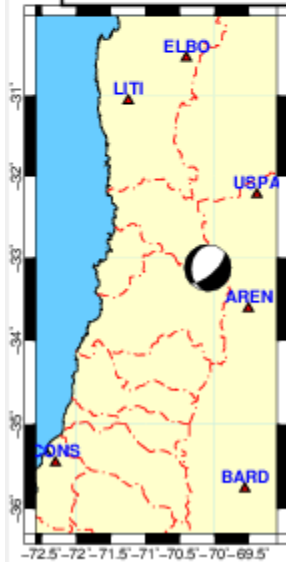
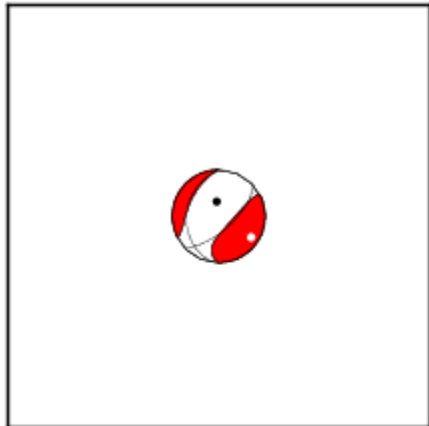
P-axis Azimuth	Plunge	NS	EW	Z	D (km)
	352	64			

T-axis Azimuth	Plunge	NS	EW	Z	D (km)
	123	18			

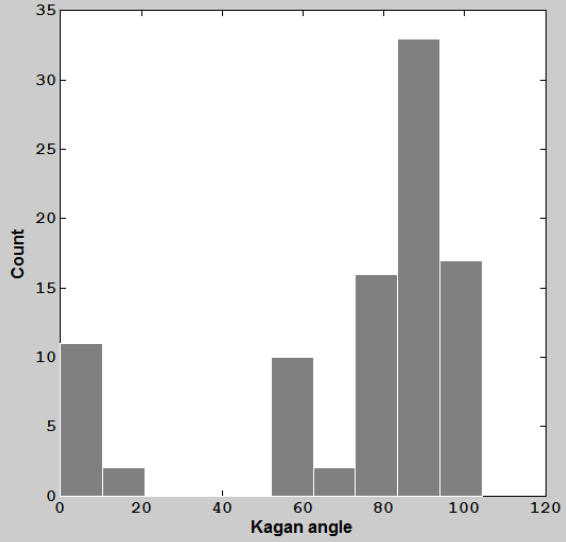
Mrr	Mtt	Mpp	NS	EW	Z	D (km)
-3.139	-0.029	3.167				

Mrt	Mrp	Mtp	NS	EW	Z	D (km)
-2.379	-1.976	2.939				

Exponent (Nm) : 15

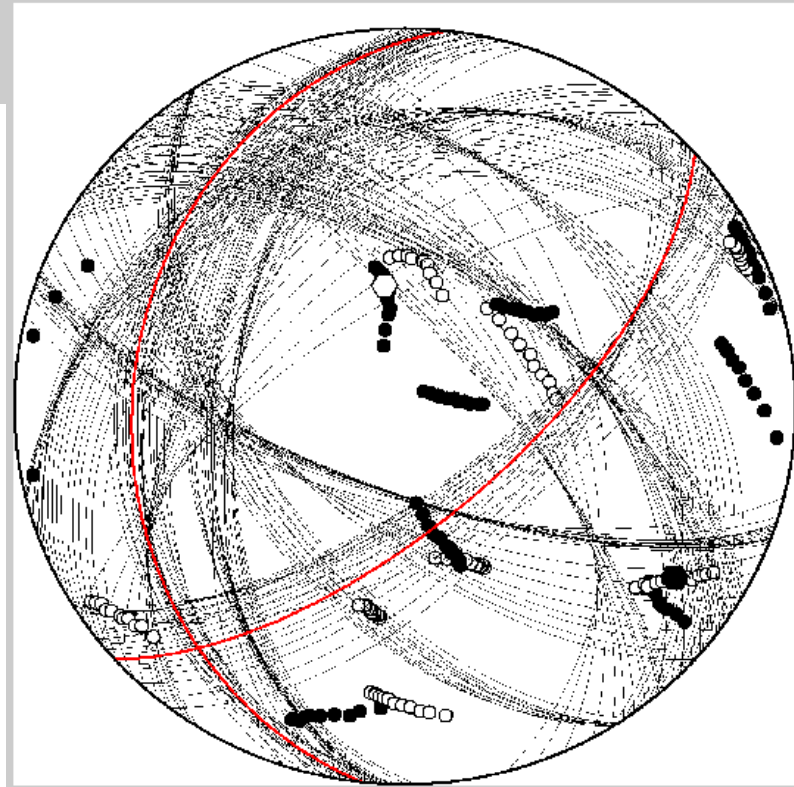
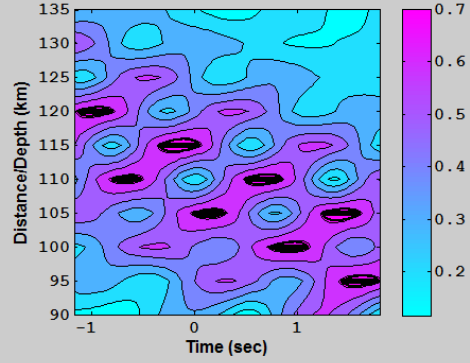


Kagan angle for reference solution STR = 48 DIP = 66 RAKE = -70  
Mean = 72.82 STD = 29.80 Median = 84.65 Var = 888.26  
**FMVAR = 73 ± 30**



Maximum Correlation = 0.79 Correlation Threshold = 0.71

**STVAR = 0.09**



# UNCERTAINTY ESTIMATION

