

SAKARYA ÜNİVERSİTESİ
JEOFİZİK MÜHENDİSLİĞİ BÖLÜMÜ
DEPREM İZLEME VE ARAŞTIRMA MERKEZİ (DİVAM) DEPREM KAYIDI

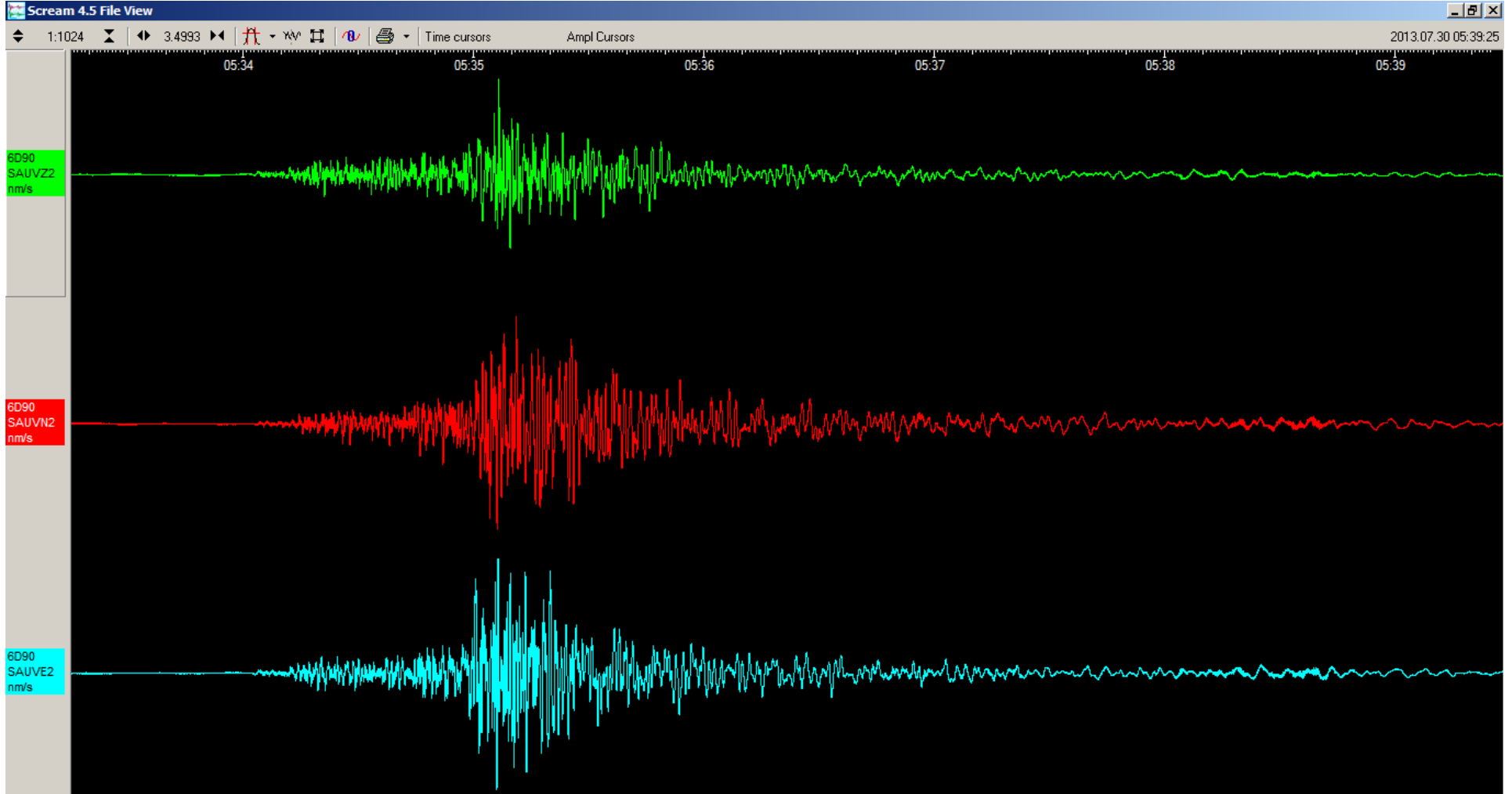
30/07/2013 KALEKÖY-GÖKÇEADA DEPREMİ $M=5.3$ (UDİM)

Oluş Zamanı=08:33:08.0 (Yerel Saat) Enlem:40.3037° K Boylam:25.7803° D Derinlik=9.8 km

Uzaklık: 382 km Azimut: 271°



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===== SAU-DIVAM Moment Tensor Solution =====

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2013.07.30

KALEKÖY-GÖKÇEADA DEPREMİ MOMENT TENSÖR ÇÖZÜMÜ

MOMENT TENSOR SOLUTION

HYPOCENTER LOCATION

Origin time 20130730 05:33:08.00
Lat 40.3 Lon 25.7803 Depth 9.8

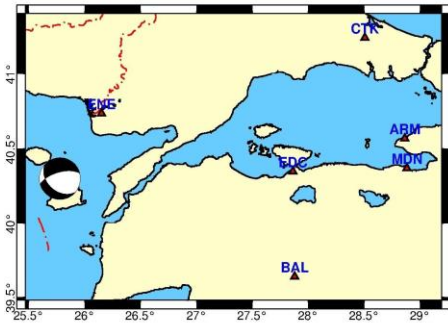
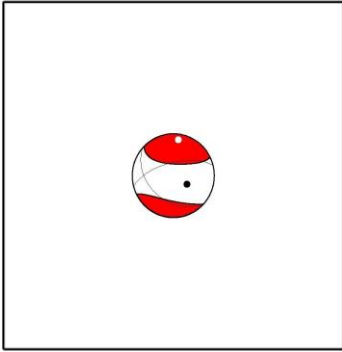
CENTROID

Trial source number : 20 (Fixed Epicenter inversion)
Centroid Lat (N) 40.3 Lon (E) 25.7803
Centroid Depth (km) : 20
Centroid time : -1.8 (sec) relative to origin time

Moment (Nm) : 2.069e+016
Mw : 4.8
VOL% : 0

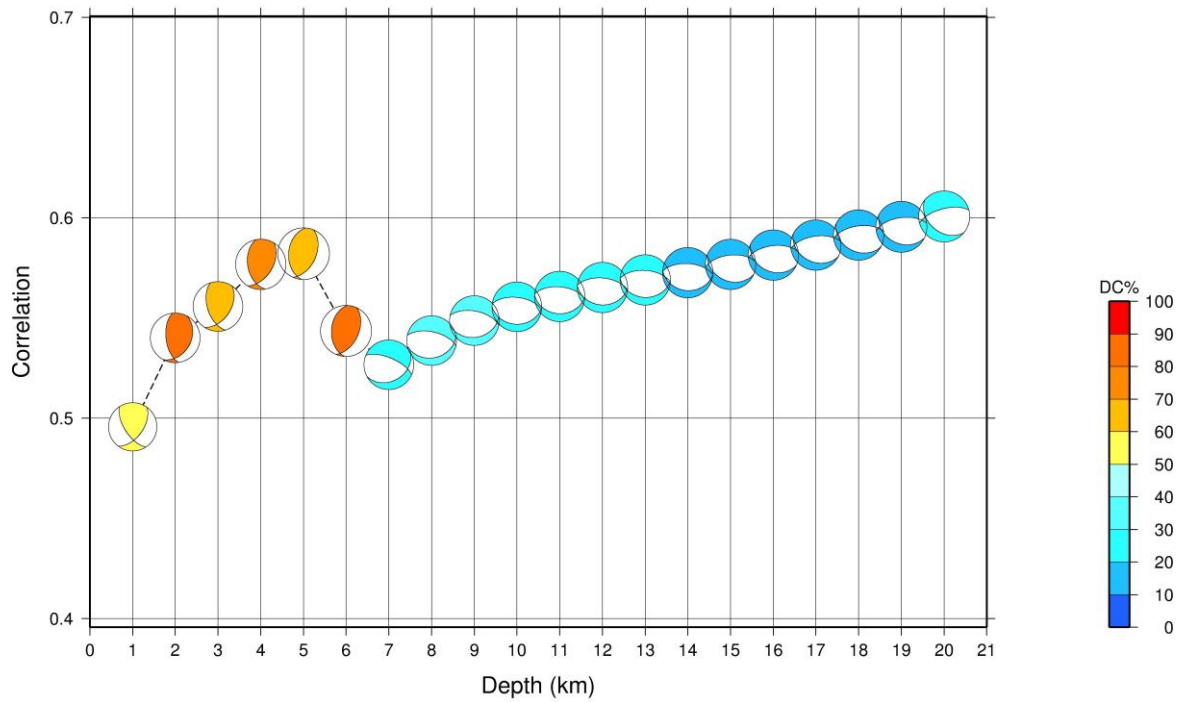
Var.red.(for stations used in inversion):0.36
Var.red.(for all stations) :0.36

Condition Number : 2.3



| Strike | Dip | Rake | Frequency band used in inversion (Hz) |
|------------------------------|------------|------------|---------------------------------------|
| 255 | 65 | -121 | 0.02 - 0.05 -- 0.6 - 0.1 |
| Strike | Dip | Rake | Stations-Components Used-Distance |
| 131 | 39 | -42 | NS EW Z D(km) |
| P-axis Azimuth Plunge | | | ENE + + + 58 |
| 122 58 | | | EDC + + + 177 |
| T-axis Azimuth Plunge | | | BAL + + + 194 |
| 8 14 | | | CTK + + + 253 |
| | | | ARM + + + 263 |
| | | | MDN + + + 264 |
| Mrr | Mtt | Mpp | |
| -1.087 | 2.071 | -0.984 | |
| Mrt | Mrp | Mtp | |
| 0.909 | 0.084 | -0.477 | |
| Exponent (Nm): 16 | | | |

Correlation vs Depth Plot



Hypocenter Solution

Origin Time : 20130730 05:33:08.00

Lat: 40.3 Lon: 25.7803

Depth (km) : 9.8

Mw : 4.8

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Centroid Solution

Centroid Time : -1.8 (sec) relative to origin time

Centroid Lat: 40.3 Lon: 25.7803

Centroid Depth : 20

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No of Stations: 6 (ENE-EDC-BAL-CTK-ARM-MDN)

Freq band (Hz)

0.05-0.6 tapered 0.02-0.05 and 0.6-0.1

Variance Reduction (%): 36

Moment Tensor (Nm): Exponent 10**16

Mrr Mtt Mpp

-1.087 2.071 -0.984

Mrt Mrp Mtp

0.909 0.084 -0.477

VOL (%) : 0

DC (%) : 21

CLVD (%) : 79

Best Double Couple: Mo= 2.069e+016 Nm

NP1: Strike Dip Rake

255 65 -121

NP2: Strike Dip Rake

131 39 -42

