Global CMT Catalog

Search criteria:

```
Start date: 1990/5/12    End date: 1990/5/12
-90 <=lat<= 90          -180 <=lon<= 180
0 <=depth<= 1000         -9999 <=time shift<= 9999
0 <=mb<= 10       0<=Ms<= 10           6<=Mw<= 10
0 <=tension plunge<= 90        0 <=null plunge<= 90
```

Results

Output in full format. All errors are from CMT inversion. If the error is zero, the value may have been fixed prior to inversion.

Event name: 051290A

Region name: SAKHALIN ISLAND
Date (y/m/d): 1990/5/12

Information on data used in inversion

```
Wave    nsta  nrec  cutoff
Body     13    34    45
Mantle   11    26    135
Surface   0     0    0
```

Timing and location information

```
         hr  min   sec      lat     lon    depth   mb   Ms
PDE       4   50   9.00    49.04  141.88  611.0  6.4  0.0
CMT       4   50  16.60    48.94  141.38  612.5
Error             0.20      0.02    0.03    1.6
Assumed half duration: 15.0
```

Mechanism information

```
Exponent for moment tensor:  26    units: dyne-cm
        Mrr     Mtt     Mpp     Mrt     Mrp     Mtp
CMT   -3.568  -0.866   4.434  -6.122  -2.665   2.470
Error  0.083   0.106   0.117   0.091   0.094   0.101

Mw = 7.2   Scalar Moment = 8.18e+26
Fault plane:  strike=172    dip=29   slip=-151
Fault plane:  strike=56     dip=76   slip=-64
Eigenvector:  eigenvalue:  7.85  plunge: 27   azimuth: 126
Eigenvector:  eigenvalue:  0.66  plunge: 25   azimuth: 229
Eigenvector:  eigenvalue: -8.51  plunge: 52   azimuth: 356
```

End of events found with given criteria.

See the CMT project web page for more information on CMTs.