

Site Seismicity Report — (40.1800, 44.5100), radius 100 km

Generated (UTC): 2026-07-18T22:18:40.361173+00:00

Total reconciled events: 7360

 Region map

Magnitude distribution

 Magnitude histogram

Gutenberg-Richter fit

 GR curve

a-value	b-value	Mc	N ($M \geq M_c$)	N (total)
4.571	0.583	1.40	5688	7360

Maximum historical event

- **M6.8** 10 km N of Gogaran, Armenia — 1988-12-07T07:41:24.200Z (93.8 km from site, type ms, status matched)

Top 20 by magnitude

Time	Mag	Type	Depth (km)	Distance (km)	Status
1988-12-07T07:41:24.200Z	6.8	ms	5.4	93.8	matched
1988-12-07T07:45:44.870Z	5.9	mb	10.0	91.1	matched
1912-10-12T19:48:47.470Z	5.8	mw	15.0	93.1	single_source
1926-10-22T19:59:26.000Z	5.6	MS	35.0	56.0	single_source
1967-01-30T01:20:30.000Z	5.5	mw	10.0	94.4	matched
1962-09-04T22:59:17.000Z	5.5	M	5.0	34.6	single_source
1932-03-15T07:44:34.290Z	5.4	mw	15.0	91.1	single_source
1930-05-08T15:05:41.990Z	5.3	mw	15.0	51.4	single_source
1930-05-08T14:23:51.770Z	5.3	mw	15.0	82.2	single_source
1938-11-14T11:54:50.430Z	5.2	mw	15.0	83.0	single_source
2021-02-05T15:36:11.039Z	5.2	mww	12.8	79.6	matched
1938-11-14T12:06:46.030Z	5.2	mw	15.0	63.5	single_source
1926-07-08T14:59:21.520Z	5.2	mw	15.0	49.8	single_source
2004-07-01T22:30:09.320Z	5.1	mwc	5.0	64.5	matched
1986-04-11T04:10:31.250Z	5.0	mb	10.0	94.8	matched
1988-12-07T09:34:34.050Z	5.0	mb	10.0	93.7	matched

Time	Mag	Type	Depth (km)	Distance (km)	Status
1988-12-08T05:36:29.820Z	5.0	mb	10.0	91.7	matched
1989-01-04T07:29:41.150Z	5.0	mb	10.0	81.4	matched
1988-12-08T01:15:54.030Z	4.9	mb	10.0	69.0	matched
1990-05-27T18:27:57.360Z	4.9	mb	10.0	80.0	matched

Reconciliation summary

- Matched USGS<->ISC pairs: 68
- Discrepant magnitudes ($|\Delta M| > 0.3$): 14

| Time | USGS mag | ISC mag | $|\Delta|$ |
|---|---|---|---|
| 1967-01-30T01:20:30.000Z | 5.5 | 5.0 | 0.50 |
| 1976-12-01T15:41:12.500Z | 4.4 | 4.9 | 0.50 |
| 1979-09-04T07:14:02.800Z | 4.5 | 4.9 | 0.40 |
| 1988-01-27T03:46:59.530Z | 4.6 | 4.9 | 0.30 |
| 1988-12-07T07:41:24.200Z | 6.8 | 6.2 | 0.60 |
| 1988-12-08T07:46:01.410Z | 4.6 | 4.9 | 0.30 |
| 2004-07-21T20:11:22.000Z | 3.8 | 3.4 | 0.40 |
| 2004-07-31T02:12:34.870Z | 4.0 | 3.6 | 0.40 |
| 2004-08-09T18:33:27.720Z | 4.0 | 3.6 | 0.40 |
| 2004-08-10T08:17:48.370Z | 4.4 | 4.1 | 0.30 |
| 2004-08-10T23:45:22.420Z | 4.2 | 3.8 | 0.40 |
| 2007-01-12T08:00:13.370Z | 4.2 | 3.8 | 0.40 |
| 2007-04-11T19:43:17.000Z | 3.5 | 3.0 | 0.50 |
| 2021-02-05T15:36:11.039Z | 5.2 | 4.8 | 0.40 |