2006
지진연보

기상청

국가지진관측망
2006년 진앙 분포도

INTRODUCTORY NOTES

1. The time in this catalog is the Korea Standard Time(KST) on the standard of 135°E meridian, which is 9 hours earlier than the Universal Time Coordinated(UTC).

2. The earthquake catalog is listed in chronological order in year, month, day(yyyy/mm/dd); origin time (hh:mm:ss.s), latitude and longitude of epicenter in degree, focal depth in kilometers, magnitude(M) and epicentral region in Korea.

3. The intensities in this catalog are given in Modified Mercalli Intensity scale(cf. appendix 5).

4. Seismic waves in this catalog are recorded in broadband and short-period seismographs.

5. Each station constant listed in the appendix 4 of this catalogue includes the station code, the station name, latitude and longitude in degrees, altitude in meters, sensor type and open date(yyyy/mm/dd). Station information on moved stations in 2006 is given.

6. Seismic analysis data listed here include origin time, epicenter, magnitude, MM intensity, p and s arrival time, epicentral distance, azimuth angle and maximum ground acceleration which are determined and reported on each station at the initial stage of each event.
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1. 지진발생 개요

2006년도 지진발생횟수는 총 50회였으며, 최대규모 지진은 경북 울진군 동쪽 약 58km 해역에서 발생한 규모 3.5의 지진이었다. 유감지진은 총 7회 발생하였으며, 규모 3.0 이상의 지진은 7회 발생하였다(그림 1.1).

이것을 1978년에서 2005년까지의 평균 지진발생횟수와 비교해 보면, 2006년 지진발생횟수는 연평균 24회의 2배에 달하는 50회였으며, 유감지진은 연평균 7회와 동일하며 규모 3.0 이상의 지진은 연평균 9회보다 2회 적은 7회가 발생하였다(그림 1.2).

우리나라의 전체 지진발생 경향은 지진관측망의 증가와 더불어 현대화되기 시작한 90년대 중반 이후 뚜렷한 증가추세를 보이고 있으나, 유감지진과 규모 3.0 이상 지진의 발생경향은 뚜렷한 변화가 관찰되지 않는다.

---

그림 3.1. 지진발생 추이 (1978∼2006)
2. 지진발생 현황

지역별 지진발생분포를 살펴보면, 해역을 제외한 남한지역에서는 대전-충남에서 가장 많은 5회를 기록하였으며, 부산-경남에서 4회, 강원과 충북이 각각 3회를 기록하였다. 또한 전북과 대구-경북이 각각 1회의 지진이 발생하였다. 북한 지역에서는 총 5회의 지진이 관측되었으며, 이중 규모 3.0 이상 지진이 2회 발생하였다 (표 1.1).

한반도 주변해역에서의 지진발생 경향을 살펴보면, 서해에서 9회, 남해에서 6회의 지진이 발생하였으며, 동해에서는 13회의 지진이 발생하였다.

표 1.1. 2006년 지역규모별 지진발생 횟수

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<th>4.0&gt;M≥3.0</th>
<th>3.0&gt;M</th>
<th>계</th>
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<tr>
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<tr>
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<tr>
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<td>-</td>
<td>-</td>
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<td>3</td>
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<tr>
<td>전 동</td>
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<td>-</td>
<td>-</td>
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<td>3</td>
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<tr>
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<td>8</td>
</tr>
<tr>
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<td>6</td>
<td>6</td>
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<tr>
<td>서 해</td>
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<tr>
<td>남 해</td>
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<tr>
<td>계</td>
<td>0</td>
<td>7</td>
<td>10</td>
<td>13</td>
<td>30</td>
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</tbody>
</table>

그림 1.2. 2006년과 연평균 지진발생 현황 비교

그림 1.3과 1.4는 2006년에 발생한 지진들의 지역 및 해역별 지진발생 횟수를 나타낸 것으로 특정 지역에서 편중되어 발생한 경향은 보이지 않는다.
### 제 2 장. 지진발생 현황

#### 1. 지진목록

<table>
<thead>
<tr>
<th>No.</th>
<th>발생일</th>
<th>원시</th>
<th>통보시간</th>
<th>위도</th>
<th>경도</th>
<th>규모</th>
<th>진앙지</th>
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</thead>
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<tr>
<td>2</td>
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<td>11:01:12</td>
<td>11:08:00</td>
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<td>129.92</td>
<td>3.5</td>
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<tr>
<td>3</td>
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<td>00:32:04</td>
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<td>129.54</td>
<td>2.4</td>
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</tr>
<tr>
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<td>12:01:00</td>
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<td>128.16</td>
<td>2.4</td>
<td>경남 낙 [+32]해 동남동쪽 34km 해역</td>
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<td>126.65</td>
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<td>02:44:17</td>
<td>02:50:00</td>
<td>37.17</td>
<td>126.32</td>
<td>2.0</td>
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<td>17:29:18</td>
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<td>34.10</td>
<td>124.90</td>
<td>3.4</td>
<td>전남 신안군 서쪽 서남쪽 73km 해역</td>
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<td>14:18:00</td>
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<td>2.2</td>
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※ 상기 목록은 2006년 지진통보 시 발표하였던 내용임.
2. 지진분석 자료

[2006년 01호 지진]

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관측 및 분석 결과

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<th>관측소</th>
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<th>진앙거리(km)</th>
<th>방위각(deg)</th>
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2006년 02호 지진

관측 및 분석 결과

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<th>진앙거리 (km)</th>
<th>방위각 (deg)</th>
<th>최대지반가속도(PGA:%g)</th>
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관측 및 분석 결과

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<th>최대지반가속도(PGA:㎡)</th>
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## 2006년 04호 지진

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관측 및 분석 결과

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<th>진앙거리 (km)</th>
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<th>최대지반가속도(PGA:%g)</th>
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### 2006년 05호 지진

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![지도](image.png)
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<th>깊이(km)</th>
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<th>위도(N)</th>
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관측 및 분석 결과

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<th>진앙거리 (km)</th>
<th>방위각 (deg)</th>
<th>최대지반가속도(PGA μg)</th>
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관측소의 위치는 다음과 같다.
2006년 07호 지진

년호지진
200607
진원시
월일시분초
310055717
규모(M)
2.5
깊이(km)
12.0
진앙
위도(N)
33.2956
진앙지
제주남제주군동쪽해역
65km
경도(E)
127.1452
진도
무감

관측 및 분석 결과
관측소 지진파도달시각시분초 진앙거리 (km) 방위각 (deg) 최대지반가속도(PGA:%g)
P 파 S 파 UD NS EW

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년호지진
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진원시월일시분초
311045222
규모(M_L)
2.1
깊이(km)
14.1

진앙
위도(N)
37.1310
진앙지 충남태안군북서쪽약해역
경도(E)
126.0010

관측 및 분석 결과

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2006년 09호 지진

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2006년 10호 지진

관측 및 분석 결과

관측소 | 지진과 도달시간(시분초) | 진앙거리 (km) | 방위각 (deg) | 최대지밠헹가속도(PGA:%g) | P파 | S파 |
---|---|---|---|---|---|---|
BON | 13:59:56.530 | 45.9 | 59.4 | 77964 | 82289 | 113927 |
CHO | 13:59:57.668 | 60.7 | 197.4 | 95344 | 130988 | 132820 |
POR | 13:59:59.709 | 71.7 | 268.7 | |
NAW | 14:00:04.596 | 104.2 | 181.1 | |
ICN | 14:00:05.987 | 105.9 | 2.9 | 31946 | 28774 | 27482 |
SWO | 14:00:06.491 | 108.8 | 341.6 | 24046 | 69514 | 65664 |
JEC | 14:00:07.882 | 117.2 | 39.1 | |
AND | 14:00:08.649 | 123.3 | 77.6 | |
SEO | 14:00:09.576 | 133.5 | 343.2 | 5757 | 8690 | 8924 |
INC | 14:00:10.483 | 141.8 | 332.8 | 6889 | 6751 | 10191 |
JIN | 14:00:10.867 | 144.3 | 154.9 | 5726 | 5865 | 6445 |
DAG | 14:00:12.481 | 152.3 | 114.1 | 7457 | 10086 | 6422 |
DCC | 14:00:15.042 | 174.7 | 351.4 | 13000 | 21668 | 19307 |
MUS | 14:00:15.361 | 180.1 | 345.1 | 12912 | 17675 | 20648 |
PHA | 14:00:16.775 | 181.3 | 94.5 | |
ULJ | 14:00:17.116 | 187.7 | 77.0 | 1639 | 1846 | 2169 |
2006년 11호 지진

전원시 | 3월 19일 14시 03분 46초 | 규모(Ms) | 2.0 | 길이(km) | 
--- | --- | --- | --- | --- | 
전앙 | 위도(N) | 38.3300 | 진양지 | 대전 유성구 남서쪽 3km 지역 |
경도(E) | 127.3400 | 진도 | 무감 |
관측 및 분석 결과

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<th>진앙거리 (km)</th>
<th>방위각(deg)</th>
<th>최대지반가속도(PGA:μg)</th>
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2006년 12호 지진

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관측 및 분석 결과

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<th>최대지반가속도(PGA:μg)</th>
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2006년 14호 지진

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### 2006년 15호 지진

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![진양(Epicenter)](image)
2006년 16호 지진

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관측 및 분석 결과

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<th>방위각 (deg)</th>
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### 2006년 17호 지진

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관측 및 분석 결과

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★ 진앙 (Epicenter)
2006년 18호 지진

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2006년 20호 지진

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관측 및 분석 결과

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<th>방위각 (deg)</th>
<th>최대지반가속도(PGA:%g)</th>
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관측소 정밀도 및 분석 결과:

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## 2006년 21호 지진

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관측소 | 지진파도달시각시분초 (杪) | 진앙거리 (km) | 방위각 (deg) | 최대지반가속도 (PGA μg) |
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[지도] 진앙 (Epicenter)
2006년 22호 지진

| 진원시 | 4월 28일 23시 47분 55초 |
| 진양 | 월도(N) 37.0887 | 진영지 | 경북 울진군 동쪽 58km 해역 |
| 경도(E) | 129.9261 |
| 규모(ML) | 3.0 |
| 깊이(km) | - |

관측 및 분석 결과

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<tr>
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<th>진앙거리 (km)</th>
<th>방위각 (deg)</th>
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관측 및 분석 결과

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## 2006년 25호 지진

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관측 및 분석 결과

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![지진도](https://example.com/earthquake_map.png)
2006년 26호 지진

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2006년 27호 지진

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관측 및 분석 결과

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   - **년도/월/일/시분초**: 2006/06/28 11:15:08
   - **규모 (M):** 2.4
   - **깊이 (km):** 7.6

2. **진앙**
   - **위도 (N):** 34.6031
   - **경도 (E):** 128.1561

3. **관측 및 분석 결과**

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[지도 및 지진 발생 위치]

☆ 진앙 (Epicenter)
2006년 29호 지진

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<th>방위각 (deg)</th>
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전원시: 7월 18일 14시 49분 53초
규모(Ms): 2.0
깊이(km): -
년호지진
▣ 2006년 30호 지진

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<th>지진과 도달시간(시분초)</th>
<th>진앙거리 (km)</th>
<th>방위각 (deg)</th>
<th>최대지반가속도(PGA:μg)</th>
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진원시

관측 및 분석 결과

관측소 | 지진과 도달시각(사분초) | 진앙거리 (km) | 방위각 (deg) | 최대지반가속도(PGA;g)
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2006년 32호 지진

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<th>최대지반가속도(PGA:μg)</th>
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<td>02:50:51.150</td>
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<td>JIN</td>
<td>02:50:51.729</td>
<td>02:50:51.729</td>
<td>72.5 727</td>
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<td>TEJ</td>
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<td>02:50:53.278</td>
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<td>92.5 67815</td>
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<td>97.1 8328</td>
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<td>POR</td>
<td>02:51:02.233</td>
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<td>132.2 16488</td>
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<td>PHA</td>
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<td>141.0 16488</td>
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<td>WJU</td>
<td>02:51:08.618</td>
<td>02:51:08.618</td>
<td>178.7 16488</td>
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2006년 33호 지진

전원시

| 8월 1일 12시 57분 36초 | 규모(Ms) | 2.0 |

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<th>규도(N)</th>
<th>길이(km)</th>
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관측 및 분석 결과

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<th>지진과 도달시간(시분초)</th>
<th>진앙거리 (km)</th>
<th>방위각 (deg)</th>
<th>최대지반가속도(PGA:μg)</th>
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2006년 34호 지진

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관측 및 분석 결과

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<th>진방지거리</th>
<th>방위각(deg)</th>
<th>최대지반가속도(PGA:μg)</th>
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2006년 35호 지진

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2006년 36호 지진

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관측 및 분석 결과

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<th>방위각 (deg)</th>
<th>화학지반가속도(PGA:μg)</th>
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2006년 37호 지진

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관측 및 분석 결과

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<th>방위각 (deg)</th>
<th>최대지반가속도 (PGA:μg)</th>
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<th>경도</th>
<th>진앙지</th>
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관측 및 분석 결과

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![진앙 (Epicenter)](image)
**2006년 39호 지진**

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### 2006년 41호 지진

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관측 및 분석 결과

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<th>방위각 (deg)</th>
<th>최대지반가속도(PGA;μg)</th>
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2006년 43호 지진

관측 및 분석 결과

관측소 | 지진파 도달시각(시분초) | 진앙거리 (km) | 방위각 (deg) | 최대지반가속도(PGA:μg)
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진원지 | 10월 25일 18시 14분 25초 | 규모(Ms) | 깊이(km) | 17.2
| 진양 | 최도 | 33.3637 | 진방지 | 제주 제주시 서쪽 84km 해역 | 2.6 | 진도 | 무감 |
2006년 44호 지진

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관측 및 분석 결과

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<th>방위각(deg)</th>
<th>최대지반가속도(PGA:%g)</th>
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2006년 45호 지진

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<th>진앙거리 (km)</th>
<th>방위각 (deg)</th>
<th>최대지반가속도(PGA:%g)</th>
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2006년 46호 지진

**진원시**
11월 26일 03시 05분 34초

**규모**
ML 2.4

**깊이**
12.0

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서울시
12월 04일 00시 51분 41초 규모(Ms) 2.7 깊이(km) 19.0

전방
위도(N) 36.4613
경도(E) 127.9173
진도
진도보은 : Ⅱ
진도문경추풍령청주 : Ⅰ
관측 및 분석 결과
관측소 지진파 도달시간(시분초) 진앙거리 (km) 방위각 (deg) 최대지반가속도(PGA:μg)
P파 S파 UD NS EW
BON 00:51:47.508 14.4 312.2 284135 319415 340271
CHI 00:51:51.836 46.0 6.4 88989 86030 81170
TEJ 00:51:52.218 49.9 258.2
CEA 00:51:56.088 71.3 304.5 24856 26744 76476
JEC 00:51:57.426 80.7 17.5 80012 82048 75232
YOW 00:51:59.218 92.5 31.0
CHO 00:51:59.993 99.0 224.0
ICN 00:52:00.724 102.4 334.4 22128 17243 19447
WJU 00:52:01.197 105.4 6.5 111721 179092 183829
KUS 00:52:01.395 109.0 243.4
DAG 00:52:03.077 116.9 130.9 17870 38127 22201
SWO 00:52:03.695 123.1 316.9 8905 24038 25910
NAW 00:52:04.436 128.9 204.2
PHA 00:52:05.194 133.5 102.5 5416 9089 11438
SES 00:52:05.366 135.6 286.0 11719 15801 14693
SEO 00:52:06.413 144.5 322.5 3361 3403 5823
JIN 00:52:06.456 144.8 175.9 8161 11766 13248
HCJ 00:52:06.637 146.6 356.5 8010 9548 12483
DGY 00:52:07.504 152.2 25.9 10907 7980 15471
MAS 00:52:07.972 153.4 157.4
ULS 00:52:09.390 161.4 128.2 4773 10588 18033
KWJ 00:52:10.638 167.0 210.3 7355 10681 11050
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CWO 00:52:11.408 183.7 349.0
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![지진도](image)
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관측 및 분석 결과

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### 2006년 50호 지진

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관측 및 분석 결과

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<th>최대지반가속도(PGA,μg)</th>
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제 4 장. 부 록

1. 2006년 세계 주요지진

세계 주요지진은 국내에서 발생한 규모 6.0 이상 및 해역에서 발생한 규모 7.0 이상 또는
피해가 예상되는 지역 중 기상청(KMA)에서 발표한 해역지진정보를 토대로 미국지질조사소

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<th>번호</th>
<th>연번</th>
<th>진원시(UTC)</th>
<th>위도</th>
<th>경도</th>
<th>깊이</th>
<th>규모</th>
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<th>깊이(km)</th>
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<td>M</td>
<td>Region / Casualties</td>
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<td>57</td>
<td>09/29 13:08:26</td>
<td>10.88°N</td>
<td>61.76°W</td>
<td>53</td>
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<tr>
<td>58</td>
<td>09/29 18:23:05</td>
<td>10.81°N</td>
<td>61.76°W</td>
<td>52</td>
<td>5.5</td>
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<td>59</td>
<td>09/30 17:56:16</td>
<td>46.19°N</td>
<td>153.17°E</td>
<td>10</td>
<td>6.0</td>
<td>러시아 루블렌드 동쪽 해역</td>
</tr>
<tr>
<td>60</td>
<td>10/10 23:58:04</td>
<td>37.20°N</td>
<td>142.66°E</td>
<td>10</td>
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<td>일본 셰도이 동남동쪽 230km 해역</td>
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<tr>
<td>61</td>
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<td>31.30°S</td>
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<td>65</td>
<td>11/01 14:21:36</td>
<td>42.35N</td>
<td>143.03°E</td>
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<td>26.04°S</td>
<td>63.22°W</td>
<td>552</td>
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<td>아르헨티나 산티아고데모데스토 북부 동쪽 지역</td>
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<tr>
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<td>28.59°N</td>
<td>129.90°E</td>
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<td>위도</td>
<td>경도</td>
<td>깊이(km)</td>
<td>규모</td>
<td>진앙지사상자 / 사상자</td>
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<td>21.80°N</td>
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<td>대만 카우슝 남남동쪽 약 90km 해역 / 사망 2명, 부상 40명</td>
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<td>대만 카우슝 남남동 70km 해역</td>
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### 2. 1978 ~ 2006년 규모별 지진 발생 현황

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</table>

계 | 4  | 1  | 5  | 24 | 144 | 85 | 229 | 376 | 88  | 464 | 548 | 180 | 728 |
3. 진앙분포도(1978 ~ 2006년)

5. 수정 메르칼리 진도계급(MMI Scale)

<table>
<thead>
<tr>
<th>평균속도 (cm/sec)</th>
<th>진도 값과 설명</th>
<th>평균최대가속도 (cm/sec²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>특별히 좋은 상태에서 극소수의 사람을 제외하고는 전혀 느낄 수 없다. 지진해석에만 감지되는 경우가 많다.</td>
<td>0.015g ~ 0.02g</td>
</tr>
<tr>
<td>2.5</td>
<td>소수의 사람들, 특히 건물의 맨위층에 있는 소수의 사람들에게 의해서만 느낀다. 매달린 물체가 약하게 흔들린다.</td>
<td>0.03g ~ 0.04g</td>
</tr>
<tr>
<td>5.8</td>
<td>실내에서 현저하게 느껴지는데, 특히 건물의 맨위층에 있는 사람들에게 더욱 그렇다. 그러나 많은 사람들이 지진이라고 인식하지 못한다. 정지하고 있는 차는 약간 흔들린다. 트럭이 지나가는 것과 같은 진동이 있고, 지속시간이 짧다.</td>
<td>0.06g ~ 0.07g</td>
</tr>
<tr>
<td>8.12</td>
<td>모든 사람들이 밖으로 나온다. 설계 및 건축이 잘된 건물에서는 피해가 무시할 수 있는 정도이지만, 보통 건축물에서 는 약간의 피해가 발생한다. 설계 및 건축이 잘된 부설건축물에서는 상당한 피해가 발생한다.</td>
<td>0.10g ~ 0.15g</td>
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### 평균속도 (cm/sec)
<table>
<thead>
<tr>
<th>진도 값과 설명</th>
<th>평균최대가속도 (cm/sec²)</th>
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</thead>
<tbody>
<tr>
<td>VII</td>
<td>20 ~ 30</td>
</tr>
<tr>
<td>IX</td>
<td>45 ~ 55</td>
</tr>
<tr>
<td>X</td>
<td>60이상</td>
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</tbody>
</table>

#### 특별히 설계된 구조물에는 약간의 피해가 있고, 일반 건축물에서는 부분적인 붕괴를 일으키며, 무상 건축물에서는 약간의 피해를 입는다. 창들로부터 창문이 벌어져 내간다. 고독, 공장 물품이 미끄러지며, 기둥, 기나무, 벽돌이 무너진다. 무거운 가구가 넘어진다. 도래와 진동이 약간 발생한다. 우물물의 변화가 있다. 차량운행 하기가 어렵다.

#### VI
<table>
<thead>
<tr>
<th>진도값과 설명</th>
<th>평균최대가속도 (cm/sec²)</th>
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</thead>
<tbody>
<tr>
<td>20 ~ 30</td>
<td>0.25g ~ 0.30g</td>
</tr>
<tr>
<td>30 ~ 45</td>
<td>0.50g ~ 0.55g</td>
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<tr>
<td>60이상</td>
<td>0.60g이상</td>
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#### 기상하위기구보
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<td>김복희</td>
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<td>김창호</td>
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<td>손성희</td>
<td>김식중</td>
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<td>김태경</td>
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<td>김유철</td>
<td>김연희</td>
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### 평균하위기구보
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#### 작성자
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#### 편집자
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지진연보(2006년)

발생 기 상 첨
편집 지진감시과
인쇄 동진문화사

<연락처>
주소 : 156-720
서울시 동작구 삼대방동 460-18
전화 : (02)841-7665, e-mail : jcpark@kma.go.kr