

# 大阪地震累年報

Results of the Seismological Observation in Osaka,  
for the several years in succession.



| 月日<br>Date | 發震時<br>P. m. s. | 第一初期<br>P-S or P-L<br>m. s. | 第二初期<br>S-L<br>m. s. | 最大動出現<br>時 M.<br>h. m. s. | 振幅<br>Amplitude $\mu$ | 振動期<br>Period<br>s. | 距離<br>距離<br>K.M. | 震央<br>Epicenter<br>地       |
|------------|-----------------|-----------------------------|----------------------|---------------------------|-----------------------|---------------------|------------------|----------------------------|
| M 21       | 11 56 45        | 0 53                        | —                    | 11 58 58                  | 35                    | 4.8                 | 393              | Iwaki-nada                 |
| " 21       | 19 26 40        | 3 50                        | —                    | 19 30 35                  | 45                    | 7.5                 | 2320             | A distant earthquake       |
| " 22       | 10 3 59         | 0 58                        | —                    | 10 05 30                  | 15                    | 2.8                 | 430              | Hyuga-nada                 |
| " 22       | 23 14 47        | 7 47                        | —                    | 23 23 50                  | 70                    | 6.3                 | 6200             | A distant earthquake       |
| " 24       | 14 58 17        | 1 16                        | —                    | 14 59 59                  | 20                    | 4.2                 | 564              | —                          |
| " 27       | 12 10 1         | 0 56                        | —                    | 12 12 25                  | 70                    | 3.8                 | 416              | Off the coast of Kazusa    |
| " 28       | 10 6 19         | 1 9                         | —                    | 10 08 43                  | 10                    | 4.3                 | 513              | —                          |
| " 28       | 15 51 58        | 6 21                        | 3 41                 | 16 04 00                  | 60                    | 20.7                | 4610             | A distant earthquake       |
| M 3        | 1 42 21         | 1 14                        | —                    | 1 44 29                   | 20                    | 4.8                 | 549              | Bay of Tokyo               |
| " 6        | 8 32 26         | 1 9                         | —                    | 8 33 47                   | 445                   | 4.2                 | 513              | Eastern part of Musasi     |
| " 8        | 6 7 52          | 0 47                        | —                    | 6 09 04                   | 30                    | 6.2                 | 349              | Central part of Honsyu     |
| " 10       | 2 35 12         | 0 12                        | —                    | 2 36 00                   | 15                    | 1.4                 | 89               | Near districts of Kinai    |
| " 10       | 9 59 39         | 0 12                        | —                    | 9 59 59                   | 15                    | 1.2                 | 89               | Ueno-eyo, Iga province     |
| " 10       | 10 3 58         | 2 21                        | —                    | 10 07 00                  | 20                    | 4.0                 | 1330             | Off the SE coast of Honsyu |
| " 11       | 11 16 18        | 6 26                        | —                    | 11 27 14                  | 260                   | 24.0                | 4705             | A distant earthquake       |
| " 11       | 11 29 36        | 6 10                        | —                    | 11 41 40                  | 690                   | 24.0                | 4400             | "                          |
| " 13       | 9 8 3           | 6 42                        | 2 44                 | 9 20 29                   | 50                    | 23.0                | 4995             | "                          |
| " 16       | 19 32 30        | 15 38                       | 17 15                | 20 13 50                  | 1240                  | 24.0                | —                | —                          |
| " 18       | 12 45 43        | 0 10                        | —                    | 12 46 22                  | 20                    | 1.1                 | 74               | Southern part of Yamato    |
| " 20       | 5 57 7          | 6 0                         | 2 40                 | 6 10 30                   | 300                   | 24.0                | 4225             | A distant earthquake       |
| " 24       | 13 19 40        | 1 33                        | —                    | 13 21 50                  | 5                     | 5.2                 | 690              | Near Amami Osima Island    |
| " 29       | 15 38 3         | 5 41                        | 2 43                 | 15 49 57                  | 40                    | 19.2                | 3895             | A distant earthquake       |
| " 31       | 6 14 25         | 5 48                        | 3 9                  | 6 26 13                   | 275                   | 21.6                | 4015             | "                          |

明治四十五年、大正元年 (1912)

|      |          |      |      |          |     |      |      |                                 |
|------|----------|------|------|----------|-----|------|------|---------------------------------|
| I 3  | 19 6 38  | 2 12 | —    | 19 10 8  | 75  | 7.2  | 1580 | Off the coast of Tokati         |
| " 4  | 15 53 40 | 5 47 | 2 48 | 16 6 35  | 130 | 24.0 | 4570 | A distant earthquake            |
| " 6  | 2 10 16  | 0 9  | —    | 2 10 55  | 25  | 1.2  | 100  | In the Yura channel             |
| " 8  | 21 22 57 | 1 9  | —    | 21 24 36 | 130 | 4.0  | 540  | Southern part of Rikuzen        |
| " 14 | 5 41 59  | 0 49 | —    | 5 43 48  | 15  | 5.0  | 470  | Mt. Asama                       |
| " 16 | 11 29 16 | 1 24 | —    | 11 31 4  | 25  | 7.2  | 650  | Amakusa-nada                    |
| " 20 | 4 7 38   | 6 18 | —    | 4 24 3   | 80  | 19.8 | 3190 | A distant earthquake            |
| " 21 | 1 32 44  | 1 10 | —    | 1 36 0   | 60  | 7.2  | 550  | Southern part of Hyuga          |
| " 21 | 3 10 16  | 0 46 | —    | 3 12 39  | 20  | 4.8  | 360  | Bingo-nada                      |
| " 24 | 16 59 23 | 6 25 | 4 8  | 17 13 31 | 25  | 16.1 | 5220 | A distant earthquake            |
| " 26 | 7 30 18  | 1 12 | —    | 7 31 59  | 185 | 4.0  | 560  | Bay of Tokyo                    |
| " 26 | 14 47 38 | 5 19 | 2 51 | 14 59 50 | 75  | 12.0 | 4090 | A distant earthquake            |
| " 27 | 8 30 32  | 1 13 | —    | 8 32 29  | 20  | 3.3  | 570  | Kinosita, Simoosa province      |
| " 28 | 8 30 23  | 1 13 | —    | 8 32 21  | 30  | 6.0  | 570  | Off the coast of Tyosi          |
| " 31 | 4 5 35   | 1 5  | —    | 4 7 4    | 10  | 3.2  | 510  | "                               |
| " 31 | 20 21 15 | 7 32 | 5 6  | 20 44 43 | 40  | 24.0 | 6370 | A distant earthquake            |
| " 31 | 23 40 4  | 1 28 | —    | 23 42 27 | 20  | 3.8  | 680  | Far off the SE. coast of Honsyu |
| I 4  | 6 5 48   | —    | —    | —        | —   | —    | —    | Kasima-nada                     |
| " 4  | 8 6 10   | —    | —    | —        | —   | —    | —    | Far off the SE. coast of Honsyu |
| " 8  | 18 12 54 | 0 36 | —    | 18 14 5  | 50  | 1.8  | 300  | Central part of Honsyu          |

時刻 本表ノ時刻ハ録成時ヲ用ヒタルヲ以テ之ニ本邦中央標準時トナスニハ九時ヲ加フベシ例ヘハ二日ノ二十三時ハ三日ノ八時トナルガ如シ

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|-----------|--------------|----|----|-------------------|----|-------------|----|------------------|----|----|----------------------------|---------------------|------------------------|----------------------------------|
|           | h.           | m. | s. | m.                | s. | m.          | s. | h.               | m. | s. |                            |                     |                        |                                  |
| II 9      | 23           | 20 | 39 | 1                 | 31 | —           | —  | 23               | 24 | 22 | 55                         | 5.7                 | 700                    | Hyuga-nada                       |
| " 10      | 17           | 42 | 23 | 0                 | 37 | —           | —  | 17               | 43 | 25 | 15                         | 3.8                 | 310                    | Bay of Toyama                    |
| " 10      | 18           | 3  | 20 | 0                 | 32 | —           | —  | 18               | 4  | 6  | 10                         | 4.6                 | 270                    | "                                |
| " 11      | 22           | 28 | 29 | 0                 | 37 | —           | —  | 22               | 29 | 45 | 80                         | 3.5                 | 280                    | "                                |
| " 12      | 7            | 28 | 9  | 0                 | 39 | —           | —  | 7                | 29 | 8  | 30                         | 3.8                 | 320                    | "                                |
| " 16      | 9            | 37 | 30 | 6                 | 4  | 3           | 9  | 9                | 52 | 34 | 25                         | 18.4                | 4860                   | A distant earthquake             |
| " 16      | 16           | 49 | 18 | 1                 | 7  | —           | —  | 16               | 51 | 44 | 45                         | 2.2                 | 520                    | Off the North coast of Hidati    |
| " 20      | 17           | 31 | 40 | 1                 | 0  | —           | —  | 17               | 33 | 40 | 50                         | 2.6                 | 470                    | In the Bungo channel             |
| " 22      | 3            | 48 | 49 | 0                 | 25 | —           | —  | 3                | 49 | 52 | 40                         | 4.2                 | 220                    | North western part of Mino       |
| " 23      | 8            | 20 | 51 | 0                 | 31 | —           | —  | 8                | 22 | 19 | 70                         | 4.3                 | 260                    | Near districts of Sinano         |
| " 23      | 8            | 44 | 39 | 0                 | 29 | —           | —  | 8                | 45 | 56 | 25                         | 3.3                 | 250                    | "                                |
| " 25      | 2            | 50 | 59 | —                 | —  | —           | —  | —                | —  | —  | —                          | —                   | —                      | A distant earthquake             |
| " 25      | 20           | 56 | 59 | —                 | —  | —           | —  | —                | —  | —  | —                          | —                   | —                      | —                                |
| III 5     | 6            | 11 | 56 | 2                 | 27 | —           | —  | 6                | 15 | 23 | 10                         | 3.7                 | 1680                   | A distant earthquake             |
| " 6       | 7            | 20 | 37 | 1                 | 8  | —           | —  | 7                | 21 | 54 | 10                         | 2.8                 | 530                    | North western part of Simosa     |
| " 9       | 16           | 40 | 58 | 2                 | 2  | —           | —  | 16               | 45 | 13 | 20                         | 9.6                 | 1900                   | Far of the SE. coast of Honsyu   |
| " 9       | 21           | 39 | 31 | 0                 | 58 | —           | —  | 21               | 40 | 51 | 5                          | 1.0                 | 460                    | North western part of Simosa     |
| " 9       | 22           | 8  | 11 | 0                 | 58 | —           | —  | 22               | 9  | 41 | 15                         | 2.4                 | 460                    | "                                |
| " 10      | 11           | 12 | 24 | 2                 | 23 | —           | —  | 11               | 15 | 59 | 15                         | 4.0                 | 1650                   | Southern part of Nemuro          |
| " 11      | 12           | 12 | 50 | —                 | —  | —           | —  | —                | —  | —  | —                          | —                   | —                      | —                                |
| " 11      | 15           | 39 | 11 | 1                 | 32 | —           | —  | 15               | 41 | 53 | 10                         | 3.3                 | 710                    | —                                |
| " 14      | 3            | 27 | 12 | 1                 | 0  | —           | —  | 3                | 28 | 34 | 15                         | 3.3                 | 470                    | Off the coast of Awa             |
| " 14      | 6            | 26 | 16 | —                 | —  | —           | —  | —                | —  | —  | —                          | —                   | —                      | Philippine Islands               |
| " 16      | 17           | 17 | 57 | 0                 | 12 | —           | —  | 17               | 18 | 11 | 10                         | 2.0                 | 120                    | Near districts of Kinai          |
| " 22      | 4            | 40 | 1  | —                 | —  | —           | —  | —                | —  | —  | —                          | —                   | —                      | Philippine Islands               |
| " 25      | 5            | 00 | 53 | 6                 | 46 | 4           | 0  | 5                | 12 | 43 | 15                         | 9.0                 | 5580                   | A distant earthquake             |
| " 26      | 6            | 23 | 30 | —                 | —  | —           | —  | 6                | 25 | 4  | 10                         | 4.0                 | —                      | Kasima-nada                      |
| " 30      | 7            | 43 | 11 | 4                 | 0  | —           | —  | 7                | 48 | 15 | 25                         | 7.7                 | 2290                   | Philippine Islands               |
| IV 14     | 22           | 41 | 5  | 9                 | 32 | 5           | 13 | 23               | 1  | 16 | 15                         | 18.4                | 8420                   | A distant earthquake             |
| " 15      | 16           | 7  | 44 | 7                 | 9  | 4           | 44 | 16               | 19 | 57 | 15                         | 14.4                | 5970                   | "                                |
| " 18      | 7            | 39 | 11 | 1                 | 34 | —           | —  | 7                | 42 | 12 | 45                         | 6.8                 | 720                    | Off the coast of Rikuzen         |
| " 20      | 1            | 39 | 43 | 6                 | 39 | 4           | 40 | 1                | 56 | 2  | 55                         | 21.5                | 5460                   | A distant earthquake             |
| " 23      | 19           | 39 | 47 | 0                 | 10 | —           | —  | 19               | 40 | 4  | 10                         | 1.1                 | 110                    | Near districts of Kinai          |
| " 23      | 21           | 57 | 59 | —                 | —  | —           | —  | 22               | 10 | 29 | 25                         | 19.2                | —                      | A distant earthquake             |
| V 1       | 12           | 46 | 23 | 3                 | 40 | —           | —  | 12               | 51 | 58 | 15                         | 14.0                | 2160                   | East off Formosa                 |
| " 1       | 23           | 5  | 46 | 1                 | 38 | —           | —  | 23               | 8  | 25 | 25                         | 5.2                 | 750                    | North eastern part of Honsyu     |
| " 2       | 3            | 56 | 27 | 1                 | 3  | —           | —  | 3                | 58 | 0  | 10                         | 3.2                 | 500                    | Coast of Hidati                  |
| " 5       | 23           | 57 | 13 | 0                 | 31 | —           | —  | 23               | 58 | 0  | 10                         | 2.4                 | 260                    | Near Kanayama-eyo, Mino province |
| " 6       | 19           | 12 | 28 | 11                | 12 | 9           | 23 | 19               | 53 | 0  | 30                         | 19.2                | 10130                  | Iceland                          |
| " 10      | 7            | 48 | 28 | 1                 | 2  | —           | —  | 7                | 50 | 35 | 20                         | 2.5                 | 490                    | Kasima-nada                      |
| " 11      | 2            | 45 | 40 | 1                 | 0  | —           | —  | 2                | 46 | 50 | 10                         | 4.0                 | 470                    | "                                |
| " 11      | 17           | 37 | 51 | —                 | —  | —           | —  | 18               | 1  | 20 | 15                         | 15.0                | —                      | A distant earthquake             |
| " 11      | 22           | 3  | 12 | 1                 | 4  | —           | —  | 22               | 5  | 11 | 15                         | 2.5                 | 500                    | Kasima-nada                      |
| " 15      | 0            | 16 | 8  | 9                 | 15 | —           | —  | 0                | 26 | 23 | 30                         | 6.5                 | 4350                   | A distant earthquake             |
| " 19      | 16           | 26 | 35 | 1                 | 28 | —           | —  | 16               | 28 | 32 | 10                         | 2.4                 | 680                    | North western part of Rikuzen    |

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|-----------|--------------|----|----|--------------------|----|-------------|----|------------------|----|----|-----------------------|------------------|------------|------------------------------|
|           | h.           | m. | s. | m.                 | s. | m.          | s. | h.               | m. | s. |                       |                  |            |                              |
| V 20      | 7            | 56 | 42 | 1                  | 35 | —           | —  | 7                | 59 | 14 | 110                   | 3.4              | 730        | East off Bonin Island        |
| " 21      | 8            | 37 | 27 | 8                  | 58 | —           | —  | 8                | 47 | 35 | 355                   | 19.2             | 4240       | A distant earthquake         |
| " 21      | 9            | 41 | 36 | —                  | —  | —           | —  | 9                | 58 | 30 | 10                    | 9.0              | —          | "                            |
| " 22      | 12           | 28 | 7  | 1                  | 34 | —           | —  | 12               | 30 | 31 | 10                    | 3.2              | 720        | Kasima-nada                  |
| " 23      | 2            | 31 | 17 | 5                  | 52 | 6           | 0  | 2                | 46 | 9  | 3375                  | 21.1             | 4660       | Indian Ocean                 |
| " 25      | 3            | 46 | 47 | 1                  | 10 | —           | —  | 3                | 48 | 6  | 10                    | 4.0              | 550        | Kasima-nada                  |
| " 25      | 15           | 49 | 51 | 2                  | 0  | —           | —  | 15               | 55 | 37 | 50                    | 7.2              | 910        | Near Okinawa Island          |
| " 25      | 15           | 59 | 57 | 1                  | 52 | —           | —  | 16               | 2  | 9  | 30                    | 6.7              | 850        | "                            |
| " 28      | 12           | 49 | 38 | 3                  | 45 | 2           | 23 | 12               | 56 | 26 | 320                   | 19.7             | 2490       | A distant earthquake         |
| " 30      | 15           | 32 | 7  | 0                  | 57 | —           | —  | 15               | 34 | 0  | 545                   | 3.8              | 440        | Off the coast of Awa         |
| " 31      | 12           | 31 | 41 | 1                  | 0  | —           | —  | 12               | 33 | 11 | 70                    | 2.9              | 470        | In the Uraga channel         |
| " 31      | 20           | 30 | 44 | —                  | —  | —           | —  | —                | —  | —  | —                     | —                | —          | A distant earthquake         |
| VI 1      | 12           | 28 | 59 | 0                  | 58 | —           | —  | 12               | 30 | 17 | 10                    | 3.0              | 460        | Kasima-nada                  |
| " 2       | 12           | 6  | 48 | 6                  | 36 | 7           | 14 | 12               | 28 | 26 | 20                    | 16.8             | 5410       | A distant earthquake         |
| " 3       | 11           | 43 | 38 | —                  | —  | —           | —  | 11               | 50 | 38 | 10                    | 7.2              | —          | "                            |
| " 3       | 12           | 41 | 28 | —                  | —  | —           | —  | 12               | 56 | 28 | 10                    | 12.0             | —          | "                            |
| " 5       | 11           | 20 | 21 | 6                  | 2  | 5           | 19 | 11               | 37 | 35 | 40                    | 13.8             | 4830       | "                            |
| " 7       | 10           | 5  | 12 | —                  | —  | —           | —  | 10               | 12 | 47 | 25                    | 7.2              | —          | "                            |
| " 7       | 18           | 31 | 44 | —                  | —  | —           | —  | 18               | 57 | 30 | 15                    | 9.6              | —          | "                            |
| " 8       | 4            | 43 | 26 | 1                  | 43 | —           | —  | 4                | 45 | 43 | 490                   | 6.4              | 790        | "                            |
| " 8       | 6            | 58 | 39 | 6                  | 21 | 6           | 47 | 7                | 23 | 45 | 40                    | 14.4             | 5150       | "                            |
| " 8       | 7            | 45 | 9  | 7                  | 1  | 7           | 22 | 8                | 15 | 46 | 100                   | 23.9             | 5340       | "                            |
| " 8       | 8            | 2  | 55 | 1                  | 4  | —           | —  | 8                | 4  | 14 | 10                    | 2.0              | 500        | Northern part of Simoosa     |
| " 8       | 8            | 54 | 57 | 6                  | 38 | 7           | 10 | 9                | 12 | 53 | 90                    | 26.4             | 5440       | A distant earthquake         |
| " 8       | 10           | 39 | 24 | —                  | —  | —           | —  | 10               | 55 | 24 | 10                    | 14.4             | —          | "                            |
| " 8       | 13           | 8  | 57 | 6                  | 52 | 5           | 12 | 13               | 24 | 8  | 35                    | 20.7             | 5680       | "                            |
| " 10      | 16           | 15 | 18 | 7                  | 36 | 7           | 41 | 16               | 41 | 0  | 115                   | 19.2             | 6440       | "                            |
| " 12      | 7            | 13 | 44 | 7                  | 16 | 5           | 35 | 7                | 33 | 40 | 25                    | 19.2             | 6090       | "                            |
| " 12      | 10           | 17 | 55 | 1                  | 26 | —           | —  | 10               | 20 | 21 | 65                    | 4.6              | 660        | Off the coast of Rikuzen     |
| " 12      | 12           | 58 | 48 | —                  | —  | —           | —  | 13               | 12 | 48 | 15                    | 8.6              | —          | A distant earthquake         |
| " 12      | 14           | 42 | 56 | 1                  | 55 | —           | —  | 14               | 46 | 30 | 55                    | 7.2              | 870        | Near Ogasawara Islands       |
| " 12      | 23           | 32 | 2  | —                  | —  | —           | —  | 23               | 33 | 12 | 5                     | 2.0              | —          | A distant earthquake         |
| " 14      | 1            | 35 | 34 | —                  | —  | —           | —  | 1                | 39 | 34 | 10                    | 2.8              | —          | "                            |
| " 14      | 16           | 2  | 54 | 6                  | 6  | 5           | 52 | 16               | 15 | 52 | 20                    | 7.2              | 4900       | "                            |
| " 15      | 0            | 11 | 24 | 4                  | 0  | —           | —  | 0                | 15 | 54 | 45                    | 6.7              | 2290       | "                            |
| " 15      | 2            | 18 | 24 | —                  | —  | —           | —  | 2                | 19 | 56 | 5                     | 2.4              | —          | "                            |
| " 17      | 11           | 22 | 4  | 5                  | 47 | —           | —  | 11               | 30 | 41 | 45                    | 9.6              | 2990       | "                            |
| " 17      | 12           | 4  | 24 | —                  | —  | —           | —  | 12               | 11 | 30 | 15                    | 12.0             | —          | "                            |
| " 18      | 12           | 8  | 47 | 17                 | 50 | 14          | 36 | 13               | 14 | 35 | 20                    | 19.2             | 16940      | "                            |
| " 20      | 14           | 3  | 30 | —                  | —  | —           | —  | 14               | 12 | 40 | 10                    | 14.4             | —          | "                            |
| " 27      | 1            | 10 | 17 | —                  | —  | —           | —  | 1                | 11 | 30 | 10                    | 3.4              | —          | "                            |
| " 28      | 18           | 4  | 33 | 1                  | 27 | —           | —  | 18               | 6  | 53 | 55                    | 3.8              | 670        | Off the coast of Iwaki       |
| " 30      | 19           | 22 | 16 | —                  | —  | —           | —  | 19               | 24 | 57 | 15                    | 5.5              | —          | A distant earthquake         |
| VI 4      | 23           | 30 | 19 | 0                  | 31 | —           | —  | 23               | 31 | 20 | 15                    | 2.0              | 260        | Rikutyu province             |
| " 7       | 3            | 59 | 35 | —                  | —  | —           | —  | 4                | 2  | 50 | 20                    | 5.0              | —          | Off the East coast of Honsyu |

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|-----------|----|---------|---------|---------|--------------------|-------------|---------------|-----------------------|------------------|------------|-----------------|------|------|------|--------------------------------------|--|
| VII       | 7  | 8       | 2       | 55      | 11                 | 30          | 8             | 0                     | 8                | 26         | 25              | 2460 | 24.0 | 6330 | Alaska                               |  |
| "         | 8  | 16      | 43      | 10      | 3                  | 46          | —             | —                     | 16               | 48         | 0               | 30   | 6.0  | 2200 | Northern part of Luzon               |  |
| "         | 8  | 22      | 3       | 6       | 7                  | 44          | 7             | 32                    | 22               | 27         | 46              | 30   | 14.4 | 6570 | A distant earthquake                 |  |
| "         | 9  | 0       | 36      | 16      | 0                  | 23          | —             | —                     | 0                | 36         | 59              | 25   | 1.3  | 200  | Near Kameoka, Tanba province         |  |
| "         | 9  | 8       | 30      | 45      | 0                  | 45          | —             | —                     | 8                | 32         | 18              | 510  | 4.3  | 280  | Off the coast of Kii.                |  |
| "         | 13 | 14      | 35      | 24      | 0                  | 58          | —             | —                     | 14               | 36         | 50              | 1000 | 3.8  | 460  | Off the coast of Kazusa.             |  |
| "         | 15 | 22      | 46      | 33      | 0                  | 48          | —             | —                     | 22               | 48         | 7               | 435  | 5.3  | 380  | Near Mt. Asama                       |  |
| "         | 17 | 10      | 53      | 18      | —                  | —           | —             | —                     | 10               | 54         | 0               | 10   | 6.0  | —    | Off Boso peninsula                   |  |
| "         | 17 | 12      | 29      | 44      | —                  | —           | —             | —                     | 12               | 45         | 44              | 20   | 9.6  | —    | A distant earthquake                 |  |
| "         | 20 | 13      | 52      | 38      | —                  | —           | —             | —                     | 13               | 55         | 50              | 10   | 4.8  | —    | Bay of Tokyo                         |  |
| "         | 22 | 5       | 51      | 42      | 0                  | 21          | —             | —                     | 5                | 52         | 50              | 15   | 2.0  | 190  | Bay of Wakasa                        |  |
| "         | 24 | 7       | 29      | 6       | 0                  | 50          | —             | —                     | 7                | 30         | 36              | 25   | 2.6  | 400  | Central part of Honsyu               |  |
| "         | 24 | 12      | 13      | 36      | 8                  | 52          | 7             | 15                    | 12               | 35         | 39              | 55   | 19.3 | 7740 | A distant earthquake                 |  |
| "         | 24 | 23      | 25      | 42      | 1                  | 2           | —             | —                     | 23               | 27         | 40              | 455  | 4.8  | 490  | SW off Hatijo Island                 |  |
| "         | 25 | 23      | 15      | 9       | 5                  | 26          | 3             | 54                    | 23               | 26         | 54              | 260  | 21.6 | 4210 | A distant earthquake                 |  |
| "         | 26 | 2       | 34      | 44      | 4                  | 29          | 3             | 29                    | 2                | 44         | 22              | 235  | 17.5 | 3240 | "                                    |  |
| "         | 26 | 3       | 40      | 14      | 4                  | 24          | 3             | 26                    | 3                | 49         | 24              | 40   | 14.4 | 3150 | "                                    |  |
| "         | 26 | 7       | 48      | 29      | 4                  | 21          | 3             | 22                    | 7                | 57         | 42              | 105  | 17.8 | 3100 | "                                    |  |
| "         | 27 | 14      | 18      | 21      | 0                  | 11          | —             | —                     | 14               | 18         | 45              | 25   | 1.1  | 120  | Near districts of Kinai              |  |
| "         | 28 | 7       | 12      | 35      | 0                  | 43          | —             | —                     | 7                | 13         | 45              | 10   | 2.4  | 350  | Eastern part of Kai                  |  |
| "         | 30 | 8       | 38      | 21      | —                  | —           | —             | —                     | 8                | 39         | 30              | 15   | 5.5  | —    | Central part of Honsyu               |  |
| VIII      | 1  | 18      | 6       | 27      | 2                  | 0           | —             | —                     | 18               | 10         | 27              | 55   | 5.0  | 910  | Far off the coast Kazusa             |  |
| "         | 2  | 0       | 44      | 23      | 1                  | 3           | —             | —                     | 0                | 45         | 56              | 10   | 4.0  | 500  | Northern part of Simoosa             |  |
| "         | 2  | 17      | 21      | 13      | 1                  | 42          | —             | —                     | 17               | 26         | 7               | 25   | 6.7  | 780  | East off Amami Osima                 |  |
| "         | 6  | 13      | 35      | 30      | 8                  | 28          | 6             | 24                    | 13               | 55         | 47              | 95   | 14.4 | 7330 | A distant earthquake                 |  |
| "         | 6  | 21      | 20      | 46      | 7                  | 39          | —             | —                     | 21               | 28         | 55              | 155  | 7.2  | 3720 | "                                    |  |
| "         | 9  | 1       | 41      | 26      | 10                 | 0           | 10            | 58                    | 2                | 25         | 5               | 2310 | 20.2 | 8900 | Turkey                               |  |
| "         | 9  | 8       | 50      | 34      | —                  | —           | —             | —                     | 8                | 52         | 4               | 10   | 4.8  | —    | Off the coast of Rikutyu             |  |
| "         | 10 | 8       | 49      | 44      | —                  | —           | —             | —                     | 8                | 53         | 44              | 15   | 4.8  | —    | Near Hatijo Island                   |  |
| "         | 15 | 6       | 17      | 51      | 0                  | 50          | —             | —                     | 6                | 19         | 21              | 30   | 2.0  | 400  | "                                    |  |
| "         | 16 | 13      | 46      | 43      | —                  | —           | —             | —                     | 13               | 56         | 23              | 20   | 9.6  | —    | A distant earthquake                 |  |
| "         | 17 | 14      | 22      | 25      | 0                  | 43          | —             | —                     | 14               | 23         | 18              | 50   | 6.7  | 320  | Ueda-evo, Sinano province            |  |
| "         | 17 | 19      | 18      | 24      | 5                  | 6           | 3             | 52                    | 19               | 32         | 30              | 2245 | 20.2 | 3870 | East off Mindanao Island             |  |
| "         | 18 | 7       | 47      | 55      | —                  | —           | —             | —                     | 7                | 58         | 0               | 15   | 9.6  | —    | A distant earthquake                 |  |
| "         | 18 | 13      | 26      | 59      | 5                  | 20          | —             | —                     | 13               | 33         | 0               | 80   | 4.8  | 2810 | "                                    |  |
| "         | 18 | 21      | 33      | 51      | 3                  | 24          | —             | —                     | 21               | 45         | 0               | 25   | 9.0  | 2050 | East Coast of Formosa                |  |
| "         | 21 | 5       | 52      | 4       | 0                  | 53          | —             | —                     | 5                | 53         | 27              | 50   | 3.0  | 420  | North eastern part of Iwaki province |  |
| "         | 21 | 16      | 30      | 1       | 0                  | 40          | —             | —                     | 16               | 31         | 50              | 45   | 3.0  | 330  | In the Bungo channel                 |  |
| "         | 21 | 17      | 33      | 29      | 6                  | 39          | 5             | 5                     | 17               | 48         | 10              | 45   | 19.2 | 5460 | A distant earthquake                 |  |
| "         | 22 | 13      | 1       | 54      | 0                  | 58          | —             | —                     | 13               | 2          | 48              | 50   | 3.4  | 460  | Northern part of Simoosa province    |  |
| "         | 23 | 14      | 11      | 3       | —                  | —           | —             | —                     | 14               | 19         | 30              | 70   | 9.6  | —    | A distant earthquake                 |  |
| "         | 30 | 16      | 3       | 34      | 0                  | 10          | —             | —                     | 16               | 3          | 46              | 20   | 1.0  | 110  | Near districts of Kinai              |  |
| "         | 31 | 22      | 28      | 42      | —                  | —           | —             | —                     | 22               | 38         | 42              | 80   | 16.8 | —    | A distant earthquake                 |  |
| IX        | 1  | 4       | 23      | 3       | —                  | —           | —             | —                     | 4                | 27         | 23              | 50   | 6.2  | —    | "                                    |  |
| "         | 1  | 22      | 58      | 22      | 1                  | 9           | —             | —                     | 22               | 59         | 50              | 50   | 5.6  | 540  | Northern part of Honsyu              |  |

時刻

本表ノ時刻ハ線成時ヲ用ヒタルヲ以テ之ヲ本邦中央標準時トナスニハ九時ヲ加フバシ例ヘバ二日ノ二十三時ハ三日ノ八時トナルガ如シ

# 大阪地震累年報

Results of the Seismological Observation in Osaka,  
for the several years in succession.



| 地        | 月<br>Date | 發震時 |    |    | 第一初期             |    | 第二初期      |    | 最大動出現   |          |    | 振幅<br>Amplitude $\mu$ | 振動期<br>Period s. | 距離<br>K.M. | 震央<br>Epicenter               | 地 |
|----------|-----------|-----|----|----|------------------|----|-----------|----|---------|----------|----|-----------------------|------------------|------------|-------------------------------|---|
|          |           | h.  | m. | s. | P-S or P-L<br>m. | s. | S-L<br>m. | s. | 時<br>h. | M.<br>m. | s. |                       |                  |            |                               |   |
|          | K 4       | 0   | 32 | 45 | —                | —  | —         | —  | 0       | 33       | 45 | 10                    | 2.8              | —          | A distant earthquake          |   |
|          | " 11      | 1   | 1  | 2  | 11               | 20 | 8         | 5  | 1       | 18       | 50 | 65                    | 19.2             | 10270      | "                             |   |
|          | " 12      | 5   | 33 | 42 | 1                | 46 | —         | —  | 5       | 37       | 14 | 240                   | 8.6              | 810        | SE coast of Honsyu            |   |
|          | " 13      | 23  | 53 | 29 | —                | —  | —         | —  | 0       | 23       | 30 | 25                    | 12.5             | —          | A distant earthquake          |   |
|          | " 28      | 4   | 17 | 25 | 1                | 3  | —         | —  | 4       | 18       | 53 | 10                    | 3.6              | 500        | Off the coast of Kazusa       |   |
|          | " 28      | 17  | 30 | 48 | 0                | 14 | —         | —  | 17      | 32       | 14 | 510                   | 2.6              | 140        | In the Kii channel            |   |
|          | " 29      | 20  | 57 | 31 | 4                | 19 | 3         | 27 | 21      | 6        | 7  | 2035                  | 21.6             | 3070       | Caroline Islands              |   |
|          | " 30      | 12  | 35 | 28 | 1                | 4  | —         | —  | 12      | 36       | 52 | 80                    | 4.2              | 500        | Off the coast of Kazusa       |   |
|          | X 1       | 15  | 39 | 40 | 1                | 0  | —         | —  | 15      | 41       | 20 | 70                    | 3.4              | 470        | Northern part of Hyuga        |   |
|          | " 6       | 5   | 54 | 8  | 0                | 35 | —         | —  | 5       | 56       | 56 | 75                    | 4.8              | 290        | Off the coast of Tosa         |   |
|          | " 12      | 1   | 5  | 26 | 0                | 31 | —         | —  | 1       | 6        | 37 | 15                    | 1.9              | 260        | "                             |   |
|          | " 12      | 15  | 28 | 21 | —                | —  | —         | —  | 15      | 48       | 0  | 25                    | 16.8             | —          | A distant earthquake          |   |
|          | " 16      | 5   | 27 | 48 | 0                | 15 | —         | —  | 5       | 28       | 41 | 25                    | 1.5              | 150        | Central part of Kii           |   |
|          | " 18      | 11  | 3  | 28 | 1                | 2  | —         | —  | 11      | 5        | 15 | 375                   | 2.4              | 490        | Eastern part of Kai           |   |
|          | " 18      | 12  | 1  | 5  | 5                | 10 | 3         | 0  | 12      | 11       | 45 | 320                   | 16.8             | 3940       | A distant earthquake          |   |
|          | " 18      | 19  | 27 | 21 | 0                | 52 | —         | —  | 19      | 40       | 13 | 30                    | 3.5              | 420        | Amami Osima Island            |   |
|          | " 19      | 10  | 24 | 31 | 0                | 56 | —         | —  | 10      | 26       | 7  | 45                    | 2.6              | 440        | Southern part of Simoosa      |   |
|          | " 21      | 8   | 13 | 23 | —                | —  | —         | —  | 8       | 17       | 43 | 30                    | 5.2              | —          | Amami Osima Island            |   |
|          | " 26      | 9   | 5  | 33 | 4                | 0  | —         | —  | 9       | 10       | 23 | 180                   | 5.8              | 2290       | A distant earthquake          |   |
|          | " 27      | 16  | 43 | 58 | —                | —  | —         | —  | 19      | 46       | 30 | 10                    | 4.0              | —          | "                             |   |
|          | " 31      | 17  | 28 | 56 | 4                | 40 | 3         | 7  | 17      | 38       | 0  | 1260                  | 19.2             | 3430       | SE off Luzon, philippine      |   |
|          | V 3       | 4   | 20 | 35 | —                | —  | —         | —  | 4       | 28       | 0  | 15                    | 9.0              | —          | A distant earthquake          |   |
|          | " 3       | 6   | 8  | 46 | 3                | 25 | —         | —  | 16      | 14       | 10 | 25                    | 7.6              | 2060       | Off the East coast of Formosa |   |
|          | " 7       | 2   | 9  | 57 | 0                | 48 | —         | —  | 2       | 11       | 0  | 110                   | 4.8              | 390        | Iwaki-nada                    |   |
|          | " 7       | 7   | 49 | 29 | 6                | 59 | 4         | 31 | 8       | 5        | 40 | 610                   | 26.3             | 5800       | Near Alaska                   |   |
|          | " 7       | 11  | 44 | 16 | 0                | 15 | —         | —  | 11      | 45       | 20 | 35                    | 3.4              | 150        | In the Kii channel            |   |
|          | " 7       | 22  | 0  | 35 | 0                | 15 | —         | —  | 22      | 2        | 20 | 30                    | 3.8              | 150        | "                             |   |
|          | " 8       | 7   | 26 | 17 | 1                | 0  | —         | —  | 7       | 27       | 10 | 35                    | 3.0              | 470        | Southern part of Kyusyu       |   |
|          | " 8       | 7   | 58 | 55 | 4                | 39 | —         | —  | 8       | 5        | 10 | 50                    | 6.0              | 2540       | SE. off Luzon, Philippine     |   |
|          | " 9       | 14  | 6  | 52 | 1                | 12 | —         | —  | 14      | 8        | 30 | 35                    | 4.8              | 560        | Iwaki-nada                    |   |
|          | " 27      | 23  | 3  | 16 | 0                | 34 | —         | —  | 23      | 3        | 55 | 10                    | 2.5              | 280        | Central part of Honsyu        |   |
|          | VI 1      | 8   | 28 | 46 | 3                | 25 | —         | —  | 8       | 35       | 50 | 180                   | 19.7             | 2060       | South off Formosa             |   |
|          | " 5       | 12  | 36 | 30 | 7                | 9  | —         | —  | 12      | 44       | 0  | 25                    | 7.2              | 3520       | Near Kamchatka                |   |
|          | " 7       | 23  | 6  | 19 | —                | —  | —         | —  | 23      | 17       | 34 | 45                    | 5.0              | —          | A distant earthquake          |   |
|          | " 8       | 23  | 51 | 11 | 2                | 2  | —         | —  | 23      | 54       | 18 | 1495                  | 7.2              | 1520       | Off the coast of Rikuzen      |   |
|          | " 11      | 6   | 32 | 13 | 1                | 0  | —         | —  | 6       | 33       | 15 | 15                    | 3.8              | 470        | Iiyama-eyo, Sinano province   |   |
| Province | " 13      | 5   | 14 | 0  | 1                | 10 | —         | —  | 5       | 15       | 10 | 10                    | 4.0              | 550        | South off Nemuro              |   |
|          | " 19      | 10  | 23 | 51 | 0                | 11 | —         | —  | 10      | 24       | 5  | 40                    | 1.3              | 120        | Southern part of Yamato       |   |
|          | " 24      | 0   | 3  | 13 | 5                | 50 | —         | —  | 0       | 10       | 10 | 60                    | 9.2              | 3010       | A distant earthquake          |   |
| Province | " 24      | 18  | 12 | 6  | 3                | 2  | —         | —  | 18      | 21       | 45 | 130                   | 9.6              | 1910       | Near Karenko, Formosa         |   |
|          | " 28      | 8   | 4  | 53 | 4                | 23 | —         | —  | 8       | 9        | 51 | 130                   | 9.8              | 2440       | A distant earthquake          |   |
|          | " 29      | 21  | 43 | 24 | 2                | 2  | —         | —  | 21      | 46       | 26 | 225                   | 14.4             | 1520       | South off the coast of Honsyu |   |
|          | " 29      | 23  | 13 | 27 | 0                | 53 | —         | —  | 23      | 14       | 45 | 50                    | 2.8              | 420        | Bay of Toyama                 |   |
|          | " 30      | 3   | 52 | 53 | —                | —  | —         | —  | 3       | 54       | 17 | 15                    | 4.0              | —          | Southern part of Simozuke     |   |
|          | " 31      | 14  | 30 | 12 | 0                | 55 | —         | —  | 14      | 31       | 34 | 745                   | 4.8              | 440        | Off Boso peninsula            |   |

時刻 本表ノ時刻ハ綠威時ヲ用ヒタルヲ以テ之ヲ本邦中央標準時トナスニハ九時ヲ加フベシ例ヘバ二日ノ二十三時ハ三日ノ八時トナルガ如シ