

**Авачинская группа вулканов
($ML \geq 1.3$)**

**Отв. сост.: И.Н. Нуредина
Сост.: Т.Ю. Кожевникова, С.Л. Толокнова,
О.А. Напылова, Н.А. Напылова, М.В. Демянчук,
О.В. Соболевская**

| № | Дата, | | | Время, t_0 , | | | δt_0 , с | Гипоцентр | | | | | K_S | Магнитуды | | Код сети |
|----|-------|---|----|----------------|-----|-------|---------------------|-----------|---------|-------|----------|-----------|-------|-----------|------|-------------|
| | год | м | д | ч | мин | с | | φ, °N | λ, °E | δ, км | h, км | δh, км | | ML | M | |
| 1 | 2011 | 1 | 1 | 8 | 26 | 3.68 | 0.10 | 53.264 | 158.853 | 0.5 | -0.2 | 0.3 | 4.9 | 1.7 | 0.2 | KRSC |
| 2 | 2011 | 1 | 1 | 20 | 47 | 25.46 | 0.12 | 53.266 | 158.851 | 0.7 | 0.5 | 0.4 | 4.2 | 1.4 | -0.3 | KRSC |
| 3 | 2011 | 1 | 3 | 8 | 18 | 49.91 | 0.04 | 53.257 | 158.838 | 0.6 | -0.5 | 0.8 | 4.0 | 1.3 | -0.4 | KRSC |
| 4 | 2011 | 1 | 3 | 12 | 51 | 2.79 | 0.16 | 53.257 | 158.842 | 1.6 | -0.9 | 1.2 | 4.0 | 1.3 | -0.4 | KRSC |
| 5 | 2011 | 1 | 4 | 16 | 19 | 3.75 | 0.09 | 53.255 | 158.843 | 0.9 | -1.1 | 0.9 | 4.3 | 1.4 | -0.2 | KRSC |
| 6 | 2011 | 1 | 5 | 11 | 21 | 46.86 | 0.30 | 53.104 | 158.736 | 3.0 | 20.1 | 3.1 | 6.0 | 2.3 | 0.9 | KRSC |
| 7 | 2011 | 1 | 5 | 21 | 24 | 7.60 | 0.08 | 53.257 | 158.841 | 0.8 | -1.1 | 0.9 | 4.9 | 1.7 | 0.2 | KRSC |
| 8 | 2011 | 1 | 6 | 11 | 10 | 51.60 | 0.03 | 53.261 | 158.835 | 0.5 | -0.4 | 1.1 | 4.0 | 1.3 | -0.4 | KRSC |
| 9 | 2011 | 1 | 11 | 10 | 5 | 56.41 | 0.53 | 53.258 | 158.864 | 2.9 | -1.1 | 1.2 | 4.0 | 1.3 | -0.4 | KRSC |
| 10 | 2011 | 1 | 14 | 8 | 45 | 8.55 | 0.14 | 53.260 | 158.850 | 0.8 | -1.5 | 0.5 | 4.7 | 1.6 | 0.1 | KRSC |
| 11 | 2011 | 1 | 15 | 15 | 32 | 49.61 | 0.05 | 53.265 | 158.855 | 0.3 | -1.4 | 0.2 | 5.6 | 2.1 | 0.7 | KRSC |
| 12 | 2011 | 1 | 18 | 4 | 24 | 0.84 | 0.09 | 53.264 | 158.859 | 0.4 | -1.4 | 0.4 | 4.4 | 1.5 | -0.1 | KRSC |
| 13 | 2011 | 1 | 18 | 17 | 30 | 43.12 | 0.18 | 53.257 | 158.840 | 1.0 | -1.1 | 0.8 | 4.3 | 1.4 | -0.2 | KRSC |
| 14 | 2011 | 1 | 19 | 6 | 49 | 42.35 | 0.06 | 53.267 | 158.863 | 0.3 | -0.1 | 0.2 | 4.5 | 1.5 | -0.1 | KRSC |
| 15 | 2011 | 1 | 20 | 20 | 26 | 4.81 | 0.07 | 53.265 | 158.851 | 0.4 | -0.1 | 0.8 | 4.7 | 1.6 | 0.1 | KRSC |
| 16 | 2011 | 1 | 21 | 0 | 48 | 34.30 | 0.16 | 53.253 | 158.822 | 1.3 | -1.1 | 0.6 | 6.0 | 2.3 | 0.9 | KRSC |
| 17 | 2011 | 1 | 26 | 11 | 42 | 50.14 | 0.28 | 53.265 | 158.865 | 1.4 | -1.0 | 0.8 | 5.1 | 1.8 | 0.3 | KRSC |
| 18 | 2011 | 1 | 26 | 19 | 27 | 9.57 | 0.08 | 53.264 | 158.857 | 0.4 | -1.0 | 0.3 | 4.2 | 1.4 | -0.3 | KRSC |
| 19 | 2011 | 1 | 27 | 10 | 55 | 49.92 | 0.18 | 53.267 | 158.864 | 0.9 | -1.0 | 0.6 | 4.7 | 1.6 | 0.1 | KRSC |
| 20 | 2011 | 1 | 28 | 1 | 39 | 37.37 | 0.06 | 53.261 | 158.843 | 0.4 | -0.4 | 0.4 | 4.5 | 1.5 | -0.1 | KRSC |
| 21 | 2011 | 1 | 29 | 23 | 31 | 46.58 | 0.05 | 53.273 | 158.878 | 0.3 | -0.2 | 0.2 | 4.0 | 1.3 | -0.4 | KRSC |
| 22 | 2011 | 1 | 30 | 0 | 14 | 50.67 | 0.12 | 53.266 | 158.841 | 0.8 | 5.6 | 0.9 | 4.0 | 1.3 | -0.4 | KRSC |
| 23 | 2011 | 1 | 30 | 16 | 2 | 56.21 | 0.22 | 53.259 | 158.869 | 1.1 | -1.4 | 0.5 | 4.1 | 1.3 | -0.3 | KRSC |
| 24 | 2011 | 2 | 2 | 18 | 38 | 28.64 | 0.06 | 53.261 | 158.845 | 0.4 | -2.5 | 1.3 | 4.0 | 1.3 | -0.4 | KRSC |
| 25 | 2011 | 2 | 3 | 18 | 4 | 31.14 | 0.26 | 53.256 | 158.864 | 1.3 | -1.3 | 0.6 | 4.1 | 1.3 | -0.3 | KRSC |
| 26 | 2011 | 2 | 4 | 13 | 24 | 15.97 | 0.04 | 53.262 | 158.846 | 0.3 | -0.3 | 0.7 | 4.0 | 1.3 | -0.4 | KRSC |
| 27 | 2011 | 3 | 4 | 5 | 54 | 16.40 | 0.05 | 53.257 | 158.834 | 0.8 | -0.6 | 0.9 | 4.2 | 1.4 | -0.3 | KRSC |
| 28 | 2011 | 3 | 5 | 21 | 5 | 56.90 | 0.06 | 53.265 | 158.862 | 0.3 | -1.9 | 0.4 | 4.2 | 1.4 | -0.3 | KRSC |
| 29 | 2011 | 3 | 10 | 14 | 43 | 47.66 | 0.27 | 53.159 | 158.630 | 2.8 | 17.7 | 3.3 | 4.9 | 1.7 | 0.2 | KRSC |
| 30 | 2011 | 3 | 11 | 1 | 14 | 16.40 | 0.15 | 53.224 | 158.690 | 2.4 | 22.5 | 0.8 | 4.5 | 1.5 | -0.1 | KRSC |
| 31 | 2011 | 3 | 24 | 11 | 54 | 6.99 | 0.19 | 53.386 | 158.704 | 1.7 | 1.4 | 1.0 | 4.2 | 1.4 | -0.3 | KRSC |
| 32 | 2011 | 4 | 9 | 7 | 9 | 10.78 | 0.08 | 53.260 | 158.834 | 1.2 | -1.2 | 0.9 | 4.5 | 1.5 | -0.1 | KRSC |
| 33 | 2011 | 4 | 10 | 17 | 36 | 6.60 | 0.34 | 53.258 | 158.842 | 3.1 | -1.8 | 1.1 | 4.1 | 1.3 | -0.3 | KRSC |
| 34 | 2011 | 4 | 10 | 19 | 53 | 26.69 | 0.04 | 53.257 | 158.836 | 0.4 | -1.9 | 0.6 | 4.2 | 1.4 | -0.3 | KRSC |
| 35 | 2011 | 4 | 11 | 10 | 26 | 29.72 | 0.14 | 53.256 | 158.844 | 1.3 | -1.7 | 0.6 | 4.0 | 1.3 | -0.4 | KRSC |
| 36 | 2011 | 4 | 11 | 11 | 48 | 10.54 | 0.02 | 53.260 | 158.834 | 0.1 | -1.5 | 0.3 | 4.0 | 1.3 | -0.4 | KRSC |
| 37 | 2011 | 4 | 13 | 17 | 41 | 3.76 | 0.21 | 53.221 | 158.793 | 4.6 | 24.5 | 1.0 | 4.3 | 1.4 | -0.2 | KRSC |
| 38 | 2011 | 4 | 15 | 1 | 35 | 35.03 | 0.75 | 53.257 | 158.852 | 5.0 | -1.7 | 1.8 | 4.0 | 1.3 | -0.4 | KRSC |
| 39 | 2011 | 4 | 16 | 3 | 56 | 4.91 | 0.05 | 53.258 | 158.837 | 0.6 | -1.0 | 0.7 | 4.7 | 1.6 | 0.1 | KRSC |
| 40 | 2011 | 4 | 17 | 18 | 27 | 50.10 | 0.16 | 53.207 | 158.755 | 2.3 | 24.5 | 1.0 | 4.1 | 1.3 | -0.3 | KRSC |
| 41 | 2011 | 4 | 20 | 7 | 42 | 57.28 | 0.29 | 53.259 | 158.835 | 2.7 | -0.2 | 1.2 | 4.1 | 1.3 | -0.3 | KRSC |
| 42 | 2011 | 4 | 20 | 14 | 19 | 29.72 | 0.15 | 53.258 | 158.848 | 1.4 | -1.8 | 0.9 | 4.0 | 1.3 | -0.4 | KRSC |
| 43 | 2011 | 4 | 27 | 1 | 15 | 1.10 | 0.09 | 53.257 | 158.838 | 0.9 | -2.0 | 1.0 | 4.3 | 1.4 | -0.2 | KRSC |
| 44 | 2011 | 4 | 30 | 20 | 21 | 33.54 | 0.04 | 53.258 | 158.837 | 0.5 | -2.0 | 0.8 | 4.1 | 1.3 | -0.3 | KRSC |
| 45 | 2011 | 5 | 1 | 13 | 59 | 0.17 | 0.09 | 53.257 | 158.840 | 0.9 | -1.8 | 0.8 | 4.1 | 1.3 | -0.3 | KRSC |
| 46 | 2011 | 5 | 4 | 9 | 58 | 27.13 | 0.42 | 53.255 | 158.848 | 3.5 | -1.8 | 1.2 | 5.1 | 1.8 | 0.3 | KRSC |
| 47 | 2011 | 5 | 4 | 13 | 13 | 10.76 | 0.04 | 53.259 | 158.838 | 0.5 | -1.8 | 0.6 | 4.3 | 1.4 | -0.2 | KRSC |
| 48 | 2011 | 6 | 3 | 17 | 45 | 6.99 | 0.25 | 53.206 | 158.746 | 2.4 | 16.8 | 2.0 | 4.0 | 1.3 | -0.4 | KRSC |
| 49 | 2011 | 6 | 18 | 5 | 58 | 52.29 | 0.10 | 53.348 | 158.697 | 1.2 | 1.8 | 0.8 | 4.4 | 1.5 | -0.1 | KRSC |

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|----|-------|----|----|----------------|-----|-------|---------------------|----------------|----------------|---------------|-------------|--------------------|-------|-----------|------|-------------|
| | год | м | д | ч | мин | с | | φ , °N | λ , °E | δ , км | h , км | δh , км | | ML | M | |
| 50 | 2011 | 6 | 18 | 6 | 47 | 53.12 | 0.10 | 53.344 | 158.693 | 1.1 | 2.0 | 0.7 | 4.0 | 1.3 | -0.4 | KRSC |
| 51 | 2011 | 6 | 25 | 6 | 0 | 28.75 | 0.27 | 53.130 | 158.723 | 2.2 | 23.5 | 2.1 | 6.8 | 2.7 | 1.5 | KRSC |
| 52 | 2011 | 6 | 25 | 17 | 31 | 25.19 | 0.21 | 53.373 | 158.713 | 2.1 | 1.6 | 1.0 | 4.7 | 1.6 | 0.1 | KRSC |
| 53 | 2011 | 7 | 2 | 7 | 55 | 14.07 | 0.21 | 53.381 | 158.710 | 1.7 | 0.7 | 1.0 | 4.7 | 1.6 | 0.1 | KRSC |
| 54 | 2011 | 7 | 10 | 11 | 7 | 27.92 | 0.07 | 53.258 | 158.835 | 0.8 | 0.5 | 1.1 | 4.8 | 1.7 | 0.1 | KRSC |
| 55 | 2011 | 7 | 20 | 22 | 36 | 29.10 | 0.07 | 53.255 | 158.836 | 0.5 | -1.2 | 0.5 | 4.2 | 1.4 | -0.3 | KRSC |
| 56 | 2011 | 7 | 21 | 16 | 36 | 20.30 | 0.10 | 53.248 | 158.861 | 1.5 | 1.8 | 2.0 | 4.7 | 1.6 | 0.1 | KRSC |
| 57 | 2011 | 8 | 2 | 14 | 13 | 42.62 | 0.13 | 53.378 | 158.688 | 1.4 | 2.5 | 0.7 | 4.7 | 1.6 | 0.1 | KRSC |
| 58 | 2011 | 8 | 2 | 14 | 15 | 5.28 | 0.38 | 53.383 | 158.707 | 3.8 | 3.4 | 1.5 | 7.4 | 3.0 | 1.9 | KRSC |
| 59 | 2011 | 8 | 2 | 14 | 18 | 17.25 | 0.18 | 53.382 | 158.685 | 1.9 | 1.6 | 0.8 | 4.8 | 1.7 | 0.1 | KRSC |
| 60 | 2011 | 8 | 2 | 14 | 18 | 41.07 | 0.17 | 53.375 | 158.678 | 2.0 | 2.2 | 0.9 | 5.7 | 2.1 | 0.7 | KRSC |
| 61 | 2011 | 8 | 2 | 14 | 34 | 14.50 | 0.15 | 53.384 | 158.684 | 1.5 | 2.2 | 0.7 | 4.4 | 1.5 | -0.1 | KRSC |
| 62 | 2011 | 8 | 14 | 9 | 44 | 58.75 | 0.21 | 53.118 | 158.825 | 2.4 | 23.9 | 1.9 | 5.6 | 2.1 | 0.7 | KRSC |
| 63 | 2011 | 9 | 16 | 4 | 56 | 4.06 | 0.14 | 53.251 | 158.842 | 1.1 | -1.2 | 1.0 | 5.6 | 2.1 | 0.7 | KRSC |
| 64 | 2011 | 9 | 16 | 7 | 40 | 2.01 | 0.13 | 53.247 | 158.870 | 1.0 | 5.0 | 0.6 | 4.8 | 1.7 | 0.1 | KRSC |
| 65 | 2011 | 11 | 2 | 23 | 55 | 31.00 | 0.48 | 53.253 | 158.864 | 3.8 | 6.1 | 2.9 | 4.6 | 1.6 | 0.0 | KRSC |
| 66 | 2011 | 11 | 12 | 6 | 36 | 20.84 | 0.06 | 53.255 | 158.843 | 0.8 | -1.5 | 1.2 | 4.5 | 1.5 | -0.1 | KRSC |
| 67 | 2011 | 12 | 1 | 14 | 52 | 54.95 | 0.09 | 53.342 | 158.719 | 1.6 | 3.6 | 0.8 | 4.4 | 1.5 | -0.1 | KRSC |
| 68 | 2011 | 12 | 27 | 16 | 15 | 39.33 | 0.18 | 53.401 | 158.644 | 4.0 | 7.0 | 1.4 | 4.5 | 1.5 | -0.1 | KRSC |

**Вулканы Горелый и Мутновский
($ML \geq 1.3$)**

**Отв. сост.: И.Н. Нуждина
Сост.: Т.Ю. Кожевникова, С.Л. Толокнова,
О.В. Соболевская**

| № | Дата, | | | Время, t_0 , | | | δt_0 , с | Гипоцентр | | | | | K_S | Магнитуды | | Код сети |
|----|-------|----|----|----------------|-----|-------|---------------------|----------------|----------------|---------------|-------------|--------------------|-------|-----------|------|-------------|
| | год | м | д | ч | мин | с | | φ , °N | λ , °E | δ , км | h , км | δh , км | | ML | M | |
| 1 | 2011 | 4 | 6 | 9 | 31 | 4.70 | 0.20 | 52.463 | 158.197 | 3.4 | 4.2 | 1.5 | 4.1 | 1.3 | -0.3 | KRSC |
| 2 | 2011 | 4 | 12 | 16 | 0 | 29.39 | 0.48 | 52.537 | 158.250 | 4.5 | 4.6 | 2.1 | 4.9 | 1.7 | 0.2 | KRSC |
| 3 | 2011 | 4 | 22 | 0 | 12 | 30.13 | 0.20 | 52.531 | 158.174 | 4.1 | 5.6 | 1.4 | 5.3 | 1.9 | 0.5 | KRSC |
| 4 | 2011 | 5 | 17 | 6 | 35 | 37.71 | 0.47 | 52.546 | 157.977 | 5.2 | 4.0 | 1.9 | 6.3 | 2.4 | 1.1 | KRSC |
| 5 | 2011 | 8 | 26 | 14 | 15 | 58.96 | 0.65 | 52.536 | 158.013 | 5.2 | 3.1 | 2.2 | 4.6 | 1.6 | 0.0 | KRSC |
| 6 | 2011 | 8 | 31 | 0 | 12 | 0.13 | 0.11 | 52.467 | 158.226 | 1.4 | 3.6 | 0.7 | 5.0 | 1.8 | 0.3 | KRSC |
| 7 | 2011 | 9 | 4 | 10 | 36 | 56.07 | 0.13 | 52.545 | 158.045 | 2.2 | 2.6 | 0.8 | 5.6 | 2.1 | 0.7 | KRSC |
| 8 | 2011 | 9 | 9 | 17 | 2 | 33.90 | 0.53 | 52.450 | 158.223 | 3.5 | 3.4 | 2.4 | 5.6 | 2.1 | 0.7 | KRSC |
| 9 | 2011 | 9 | 21 | 10 | 8 | 45.31 | 0.42 | 52.448 | 158.184 | 4.2 | 2.4 | 1.2 | 5.1 | 1.8 | 0.3 | KRSC |
| 10 | 2011 | 11 | 2 | 2 | 22 | 35.93 | 0.14 | 52.509 | 158.170 | 3.9 | 5.7 | 1.9 | 5.0 | 1.8 | 0.3 | KRSC |
| 11 | 2011 | 12 | 4 | 4 | 31 | 21.27 | 0.25 | 52.462 | 158.203 | 3.9 | 3.4 | 1.9 | 4.4 | 1.5 | -0.1 | KRSC |
| 12 | 2011 | 12 | 13 | 11 | 8 | 30.30 | 0.41 | 52.451 | 158.191 | 4.4 | 2.9 | 1.5 | 5.0 | 1.8 | 0.3 | KRSC |
| 13 | 2011 | 12 | 24 | 6 | 17 | 22.82 | 0.10 | 52.571 | 158.082 | 1.0 | 2.5 | 0.1 | 4.5 | 1.5 | -0.1 | KRSC |
| 14 | 2011 | 12 | 25 | 8 | 51 | 17.02 | 0.02 | 52.559 | 158.062 | 0.2 | 1.3 | 0.1 | 4.7 | 1.6 | 0.1 | KRSC |
| 15 | 2011 | 12 | 25 | 17 | 48 | 3.85 | 0.08 | 52.594 | 158.101 | 0.3 | 1.1 | 0.2 | 5.2 | 1.9 | 0.4 | KRSC |
| 16 | 2011 | 12 | 27 | 5 | 4 | 23.62 | 0.13 | 52.604 | 158.058 | 1.1 | 4.5 | 0.5 | 5.1 | 1.8 | 0.3 | KRSC |
| 17 | 2011 | 12 | 27 | 6 | 35 | 47.75 | 0.11 | 52.583 | 158.072 | 1.0 | 4.0 | 0.2 | 5.2 | 1.9 | 0.4 | KRSC |
| 18 | 2011 | 12 | 27 | 20 | 33 | 11.48 | 0.13 | 52.583 | 158.064 | 1.1 | 1.6 | 0.1 | 4.9 | 1.7 | 0.2 | KRSC |