

## IV.10. Северо-Восток России ( $M \geq 1.8$ )

по данным МФ ГС РАН (NERS)

*Отв. сост.: Е.И. Алёшина*

*Сост.: Р.С. Комарова, А.Г. Чернецова*

№	Дата,			Время, $t_0$ ,			$\delta t_0$ , с	Гипоцентр						$K_p$	$M$	Код сети	$I$
	год	м	д	ч	мин	с		φ, °N	δφ, °	λ, °E	δλ, °	$h$ , км	δ $h$ , км				
1	2013	1	3	2	55	51.1	0.8	64.18	0.04	153.69	0.02	24	6	8.9	2.7	NERS	
2	2013	1	11	23	53	47.6	0.3	63.12	0.02	151.96	0.01	10	5	8.4	2.4	NERS	
3	2013	1	12	9	51	8.9	0.4	63.07	0.02	146.96	0.02	6	4	8.2	2.3	NERS	
4	2013	1	15	13	36	43.5	0.2	59.78	0.01	150.07	0.01	1	2	9.8	3.2	NERS	1
5	2013	1	20	18	35	46.4	1.0	62.28	0.04	157.33	0.04	0		7.7	2.1	NERS	
6	2013	1	21	15	11	14.8	0.6	61.03	0.03	156.96	0.03	0		10.2	3.4	NERS	
7	2013	1	21	15	38	45.8	0.9	61.36	0.03	142.91	0.04	33		7.7	2.1	NERS	
8	2013	1	23	22	54	40.3	0.3	62.54	0.01	152.12	0.02	33		7.4	1.9	NERS	
9	2013	1	27	21	52	10.2	1.4	59.86	0.04	152.70	0.06	33		7.3	1.8	NERS	
10	2013	1	28	0	54	24.8	1.2	58.63	0.04	146.96	0.04	12	5	8.1	2.3	NERS	
11	2013	1	30	13	6	19.4	0.5	63.11	0.02	146.37	0.02	27	5	8.3	2.4	NERS	
12	2013	2	2	4	58	34.6	0.7	60.62	0.02	146.27	0.03	33		7.7	2.1	NERS	
13	2013	2	4	12	5	18.7	1.0	58.77	0.04	147.53	0.03	33		7.2	1.8	NERS	
14	2013	2	6	3	30	22.5	0.4	60.22	0.02	149.25	0.02	0		7.5	1.9	NERS	
15	2013	2	7	20	30	5.5	1.1	60.50	0.02	153.54	0.06	33		7.5	1.9	NERS	
16	2013	2	13	23	38	31.0	0.6	63.67	0.02	147.14	0.02	0		7.4	1.9	NERS	
17	2013	2	22	3	9	42.3	1.6	61.51	0.05	144.07	0.06	0		7.7	2.1	NERS	
18	2013	3	4	1	47	32.9	0.4	63.33	0.03	152.09	0.01	22	4	7.4	1.9	NERS	
19	2013	3	17	12	47	17.8	0.8	59.56	0.03	157.75	0.03	33		7.7	2.1	NERS	
20	2013	3	23	15	35	52.8	0.6	61.62	0.02	144.44	0.02	33		7.4	1.9	NERS	
21	2013	3	26	18	27	35.8	0.7	58.61	0.05	148.96	0.03	5	4	9.9	3.3	NERS	
22	2013	3	26	18	46	46.6	0.8	58.60	0.05	148.95	0.03	8	7	8.0	2.2	NERS	
23	2013	3	27	19	37	54.6	0.9	63.40	0.04	158.22	0.03	11	4	7.7	2.1	NERS	
24	2013	3	29	14	31	51.7	0.6	61.53	0.02	144.51	0.03	0		7.9	2.2	NERS	
25	2013	3	29	18	0	14.4	1.0	58.54	0.04	149.01	0.03	1	4	11.2	4.0	NERS	2
26	2013	3	30	0	44	53.9	1.0	58.58	0.03	148.91	0.03	0		7.3	1.8	NERS	
27	2013	4	1	10	29	6.6	0.6	61.15	0.02	155.76	0.03	33		7.5	1.9	NERS	
28	2013	4	3	22	20	35.9	0.8	62.74	0.02	147.60	0.03	20	4	7.3	1.8	NERS	
29	2013	4	4	16	28	28.2	0.9	62.09	0.02	154.33	0.02	16	22	7.6	2.0	NERS	
30	2013	4	9	1	29	25.8	0.9	59.96	0.03	152.22	0.04	33		7.4	1.9	NERS	
31	2013	4	9	21	52	22.1	1.8	63.20	0.05	145.25	0.06	33		7.4	1.9	NERS	
32	2013	4	12	23	48	23.2	1.5	61.32	0.05	157.09	0.06	33		7.8	2.1	NERS	
33	2013	4	13	2	21	13.5	1.9	58.75	0.09	149.41	0.08	22	14	8.5	2.5	NERS	
34	2013	4	16	7	48	39.6	0.3	60.34	0.01	150.65	0.03	9	6	7.2	1.8	NERS	
35	2013	4	16	8	3	13.3	0.2	60.31	0.01	150.76	0.03	33		7.3	1.8	NERS	
36	2013	4	22	12	25	53.6	1.2	59.04	0.06	149.36	0.04	9	6	10.2	3.4	NERS	3
37	2013	4	22	12	30	11.8	1.6	59.10	0.08	148.95	0.09	0		7.2	1.8	NERS	
38	2013	4	22	12	32	57.5	1.2	59.99	0.06	149.32	0.05	0		8.1	2.3	NERS	
39	2013	4	22	20	38	30.1	1.6	62.45	0.04	158.29	0.07	12	7	8.8	2.7	NERS	
40	2013	4	26	19	32	28.2	2.7	58.59	0.10	148.90	0.10	3	11	7.6	2.0	NERS	
41	2013	5	13	14	57	23.7	1.4	63.96	0.08	145.32	0.07	0		7.4	1.9	NERS	

<sup>1</sup> Радужный (10 км) – 4 балла; Армань (18 км) – 3 балла; Магадан (42 км) – 2 балла.

<sup>2</sup> Магадан-1 (152 км) – 2–3 балла.

<sup>3</sup> Магадан (96 км) – 2 балла.

№	Дата,			Время, $t_0$ ,			$\delta t_0$ , с	Гипоцентр						$K_p$	$M$	Код сети	$I$
	год	м	д	ч	мин	с		φ, °N	δφ, °	λ, °E	δλ, °	$h$ , км	δ $h$ , км				
42	2013	5	19	11	28	3.5	1.5	61.29	0.03	144.97	0.05	33		7.3	1.8	NERS	
43	2013	5	21	5	36	37.1	1.3	60.45	0.04	149.85	0.04	33		8.3	2.4	NERS	
44	2013	5	31	9	24	36.1	0.9	60.77	0.02	145.01	0.04	1	4	10.0	3.3	NERS	
45	2013	6	1	3	16	24.2	0.5	60.30	0.01	148.59	0.02	29		7.4	1.9	NERS	
46	2013	6	3	10	46	33.3	0.7	60.63	0.02	147.19	0.03	33		7.4	1.9	NERS	
47	2013	6	3	11	32	45.6	0.7	62.22	0.02	153.40	0.05	33		7.6	2.0	NERS	
48	2013	6	5	3	5	6.4	0.8	61.82		142.62				7.8	2.1	YARS	
49	2013	6	10	1	14	45.0	0.7	59.86	0.03	152.52	0.03	33		9.0	2.8	NERS	
50	2013	6	11	17	4	50.2	0.5	61.81	0.01	146.13	0.02	33		7.3	1.8	NERS	
51	2013	6	11	23	5	24.3	0.6	60.48	0.02	153.10	0.03	33		7.7	2.1	NERS	
52	2013	6	17	13	19	35.8	0.4	60.37	0.01	150.92	0.02	28	7	7.3	1.8	NERS	
53	2013	6	18	9	25	18.9	0.4	60.89	0.01	147.41	0.02	33		7.5	1.9	NERS	
54	2013	6	19	8	57	6.8	0.3	62.51	0.02	148.96	0.02	33		7.8	2.1	NERS	
55	2013	6	25	5	36	6.9	1.2	64.26	0.05	152.52	0.05	29	10	8.4	2.4	NERS	
56	2013	6	28	13	47	16.5	0.4	63.90	0.02	156.55	0.02	33		11.1	3.9	NERS	
57	2013	6	28	13	53	30.8	1.0	63.91	0.03	156.66	0.04	33		7.7	2.1	NERS	
58	2013	6	28	13	53	41.3	0.3	64.22	0.01	156.56	0.01	33		8.2	2.3	NERS	
59	2013	6	30	6	14	48.7	2.0	61.60	0.05	157.58	0.08	33		8.3	2.4	NERS	
60	2013	7	1	23	30	41.6	0.4	62.18	0.01	156.96	0.02	14		8.6	2.6	NERS	
61	2013	7	16	16	17	43.9	0.5	61.74	0.01	153.21	0.04	10	4	9.3	2.9	NERS	
62	2013	7	16	18	25	47.1	1.3	60.83	0.04	145.20	0.06	33		7.2	1.8	NERS	
63	2013	7	20	19	59	52.3	0.2	62.81	0.02	148.78	0.01	0		7.2	1.8	NERS	
64	2013	8	1	5	33	45.1	1.8	58.56	0.14	142.31	0.09	33		9.4	3.0	NERS+YARS	
65	2013	8	1	10	9	28.3	1.3	59.92	0.05	146.14	0.06	20	10	7.4	1.9	NERS	
66	2013	8	4	10	3	35.9	2.0	56.43	0.07	150.87	0.13	5	10	9.1	2.8	NERS	
67	2013	8	4	15	5	1.3	0.3	62.18	0.02	151.90	0.03	0		7.5	1.9	NERS	
68	2013	8	6	15	5	2.0	0.2	62.38	0.01	150.86	0.01	0		7.6	2.0	NERS	
69	2013	8	7	18	29	14.4	0.5	61.93	0.04	142.47	0.08			9.2	2.9	YARS	
70	2013	8	8	10	13	7.9	0.9	63.45	0.04	147.47	0.04	33		8.0	2.2	NERS	
71	2013	8	8	23	22	39.8	0.3	63.55	0.01	147.28	0.01	0		7.2	1.8	NERS	
72	2013	8	9	15	5	0.6	0.3	62.28	0.02	150.57	0.02	33		7.6	2.0	NERS	
73	2013	8	9	15	15	1.7	0.2	62.39	0.01	149.78	0.01	4	4	7.6	2.0	NERS	
74	2013	8	9	18	25	15.6	0.6	63.79	0.02	153.85	0.03	33		8.0	2.2	NERS	
75	2013	8	12	13	0	55.8	0.3	62.66	0.01	152.29	0.02	11	3	8.5	2.5	NERS	
76	2013	8	12	18	36	22.4	0.5	61.78	0.01	146.21	0.03	33		7.3	1.8	NERS	
77	2013	8	13	14	9	0.1	0.9	63.44	0.03	147.47	0.04	0		8.6	2.6	NERS	
78	2013	8	15	20	2	47.0	0.7	63.49	0.03	147.49	0.04	0		8.8	2.7	NERS	
79	2013	8	16	7	16	23.0	0.2	61.83	0.00	153.62	0.01	5	10	7.5	1.9	NERS	
80	2013	8	19	13	32	34.0	1.1	59.63	0.03	145.50	0.05	22	10	7.4	1.9	NERS	
81	2013	8	23	17	47	9.8	0.1	60.42	0.01	151.15	0.01	10	2	8.9	2.7	NERS	
82	2013	8	23	17	52	46.6	0.2	60.42	0.01	151.12	0.02	23	3	8.0	2.2	NERS	
83	2013	8	25	18	40	30.6	0.5	63.27	0.03	154.97	0.02	33		7.3	1.8	NERS	
84	2013	9	2	22	24	59.1	0.3	61.44	0.01	153.44	0.02	3	3	9.3	2.9	NERS	
85	2013	9	7	5	49	38.5	2.0	60.44	0.05	153.89	0.10	33		7.2	1.8	NERS	
86	2013	9	10	16	20	47.6	2.2	58.58	0.07	148.91	0.07	0		7.2	1.8	NERS	
87	2013	9	11	2	36	34.6	0.2	62.31	0.01	155.23	0.01	0		8.4	2.4	NERS	
88	2013	9	15	5	23	17.3	0.6	61.44	0.02	153.52	0.04	19	13	7.5	1.9	NERS	
89	2013	9	16	11	47	33.0	0.6	63.48	0.02	147.00	0.03	6	3	8.8	2.7	NERS	
90	2013	9	17	7	35	28.6	0.6	61.46	0.01	153.48	0.02	8	29	7.7	2.1	NERS	
91	2013	9	20	17	5	16.0	0.1	60.41	0.01	151.18	0.01	12	2	8.8	2.7	NERS	
92	2013	9	22	20	40	5.7	0.8	63.47	0.03	147.52	0.03	0		7.3	1.8	NERS	
93	2013	9	24	20	13	39.9	1.3	61.96	0.04	146.37	0.05	0		7.2	1.8	NERS	
94	2013	9	27	8	15	59.5	1.0	61.46	0.03	153.39	0.03	22	15	7.6	2.0	NERS	
95	2013	9	27	14	20	0.1	0.3	62.68	0.02	150.44	0.02	0		7.3	1.8	NERS	
96	2013	9	29	23	41	35.5	0.9	63.52	0.03	147.37	0.04	0		8.3	2.4	NERS	
97	2013	10	4	1	57	39.5	1.2	58.73	0.06	149.48	0.05	26	11	9.2	2.9	NERS	
98	2013	10	6	4	41	50.9	0.2	61.93	0.01	148.23	0.01	22	3	7.3	1.8	NERS	
99	2013	10	7	20	19	59.7	0.4	62.93	0.01	145.61	0.02	10	1	7.4	1.9	NERS	

№	Дата,			Время, $t_0$ ,			$\delta t_0$ , с	Гипоцентр						$K_p$	$M$	Код сети	$I$
	год	м	д	ч	мин	с		$\varphi$ , °N	$\delta\varphi$ , °	$\lambda$ , °E	$\delta\lambda$ , °	$h$ , км	$\delta h$ , км				
100	2013	10	9	14	30	30.6	1.2	63.44	0.05	147.53	0.05	6	7	8.2	2.3	NERS	
101	2013	10	9	16	23	5.4	1.5	57.98	0.05	156.42	0.07	1	8	8.2	2.3	NERS	
102	2013	10	18	0	52	27.9	0.4	60.00	0.02	151.61	0.03	0		7.7	2.1	NERS	
103	2013	10	18	15	42	40.4	0.2	60.33	0.01	150.76	0.02	6	3	8.8	2.7	NERS	
104	2013	10	21	22	27	45.3	0.4	59.01	0.02	149.43	0.01	33		7.3	1.8	NERS	
105	2013	10	23	5	30	44.6	0.7	63.52	0.03	147.40	0.03	0		8.2	2.3	NERS	
106	2013	11	1	2	9	48.1	0.3	60.59	0.01	149.54	0.02	0		9.2	2.9	NERS	
107	2013	11	1	2	28	25.3	0.3	60.58	0.02	149.49	0.02	16	6	8.3	2.4	NERS	
108	2013	11	1	4	27	28.1	0.5	60.58	0.02	149.47	0.03	0		8.9	2.7	NERS	
109	2013	11	1	4	30	35.6	0.3	60.59	0.02	149.55	0.02	0		7.4	1.9	NERS	
110	2013	11	1	4	57	33.7	0.3	60.60	0.02	149.50	0.02	11	5	8.1	2.3	NERS	
111	2013	11	1	5	10	11.2	0.3	60.61	0.02	149.53	0.02	12	6	7.3	1.8	NERS	
112	2013	11	3	19	4	55.5	0.8	62.09	0.02	153.41	0.05	33		7.3	1.8	NERS	
113	2013	11	3	23	10	16.3	0.4	58.98	0.02	148.53	0.01	2	2	11.7	4.3	NERS	4
114	2013	11	5	0	41	21.1	1.4	63.63	0.06	146.06	0.05	0		7.5	1.9	NERS	
115	2013	11	5	0	58	33.9	1.2	63.54	0.05	146.13	0.05	11	7	7.5	1.9	NERS	
116	2013	11	9	1	19	43.4	1.4	61.08	0.05	156.51	0.05	0		8.0	2.2	NERS	
117	2013	11	9	20	35	37.1	0.7	63.19	0.03	148.08	0.03	6	5	8.0	2.2	NERS	
118	2013	11	13	6	24	5.5	0.5	59.98	0.02	152.56	0.02	33		8.1	2.3	NERS	
119	2013	11	16	9	55	5.3	1.4	61.27	0.05	144.91	0.05	0		7.6	2.0	NERS	
120	2013	11	17	0	31	39.5	0.2	62.42	0.01	152.21	0.01	10	3	8.7	2.6	NERS	
121	2013	11	19	14	7	35.5	0.3	61.72	0.02	153.56	0.02	33		8.5	2.5	NERS	
122	2013	11	23	3	20	19.4	0.8	61.82	0.02	154.62	0.04	33		7.8	2.1	NERS	
123	2013	12	1	17	1	45.2	1.3	64.00	0.06	149.22	0.04	17	7	7.4	1.9	NERS	
124	2013	12	3	13	17	36.7	0.4	60.21	0.02	149.37	0.02	2	3	9.4	3.0	NERS	
125	2013	12	3	13	22	11.8	0.4	60.21	0.02	149.45	0.02	3	3	8.7	2.6	NERS	
126	2013	12	4	5	31	43.9	1.6	63.75	0.07	159.23	0.06	6	8	8.2	2.3	NERS	
127	2013	12	10	7	6	59.2	0.5	61.15	0.03	147.65	0.03	12	6	9.5	3.1	NERS	
128	2013	12	13	14	27	39.6	1.5	62.85	0.04	147.21	0.06	33		7.4	1.9	NERS	
129	2013	12	16	19	15	48.0	1.0	63.98	0.04	156.59	0.04	12	5	8.4	2.4	NERS	
130	2013	12	20	15	12	6.7	0.6	61.44	0.02	156.41	0.02	7	4	7.9	2.2	NERS	
131	2013	12	20	20	5	5.2	0.6	61.59	0.03	145.16	0.03	13	4	9.2	2.9	NERS	
132	2013	12	21	12	41	33.8	0.5	61.17	0.02	149.12	0.04	12	6	7.7	2.1	NERS	
133	2013	12	22	16	41	32.9	0.3	61.46	0.02	153.41	0.02	8	4	8.8	2.7	NERS	
134	2013	12	27	4	31	57.7	1.0	61.68	0.03	156.43	0.05	2	6	9.1	2.8	NERS	
135	2013	12	30	8	10	31.2	0.9	61.67	0.02	145.74	0.05	4	4	8.8	2.7	NERS	

<sup>4</sup> Магадан (125 км), Ола (157 км) – 2–3 балла.