Strong Earthquakes in the Territory of the USSR

Detailed Description of Data Format

Positions	Code	Description
1-4	a4	Data sources:
		NCat – Kondorskaya N.V., Shebalin N.V. (eds.)
		New catalog of strong earthquakes in the USSR from ancient times through 1975.
		"Nauka", Moscow, 1977, 536 p. (In Russian).
		Kondorskaya N.V., Shebalin N.V. (eds.)
		New catalog of strong earthquakes in the USSR from ancient times through 1977.
		World Data Center A for Solid Earth Geophysics, Report SE-31, NOAA, Boulder, Colorado, USA, 1982, 608 p.
		EqSU – Basic catalogue of strong earthquakes in the USSR territory. From year-books: "Earthquakes in the USSR in year" (1975-1978), "Nauka", Moscow, 1978-1982. (In Russian).
5-6	i 2	Region number:
		01 – Carpathians 07 – Baikal 13 – Chukotka
		02 - Crimea and Lower Kuban' 08 - Yakutia and Northeast 14 - Arctic Basin
		03 - Caucasus 09 - Primor'e and Amur 15 - Baltic Shield
		04 – Western Turkmenia 10 – Sakhalin 16 – European part of the
		05 – Middle Asia and Kazakhstan 11 – Kuril Islands USSR, Urals,
		06 – Altai and Saiany 12 – Kamchatka and Western Siberia
7-11	i 5	Year, "-" means B.C.
12	a1	Symbol for year:
		* – year supposed;
		R – inserted value of year is introduced to keep file time order.
13-14	i 2	Month.
15	a1	Symbol for month:
		* - month supposed;
40.47		R – inserted value of month is introduced to keep file time order.
16-17	i 2	Day.
18	a1	Symbol for day:
		* – day supposed;
19-20	i 2	R – inserted value of day is introduced to keep file time order.Hours.
21-22	i 2	Minutes.
23-25	f3.1	Seconds.
26	a1	Symbol for time (hour, minute, second):
	α.	* — time supposed;
		R – inserted value of time is introduced to keep file time order.
27-28	i 2	Error code for origin time determination:
		$00 - \pm 1 \sec 05 - \pm 1 \min 10 - \pm 1 \text{ month}$
		$01 - \pm 2 \sec 06 - \pm 10 \min 11 - \pm 1 $ year
		$02 - \pm 5 \sec 07 - \pm 1 \text{ hour} 12 - \pm 10 \text{ years}$
		$03 - \pm 10 \text{ sec}$ $08 - \pm 6 \text{ hours}$ $13 - \pm 100 \text{ years}$
		04 - ± 20 sec 09 - ± 1 day 14 - ± 1000 years
29-33	f5.2	Geographical latitude of epicentre in degrees:
		– S, southern latitude;
		+ – N, northern latitude.
34-39	f6.2	Geographical longitude of epicentre in degrees:
		– W, west longitude;
		+ - E, east longitude.
40	a1	Symbol for epicentre:
		* - epicentre supposed;
		 G – region number in catalogue does not meet the epicentre coordinates;
		P – coordinates of geometrical centre of possible epicentre location zone, given in catalogue,
		are listed;
		Blank – epicentre lies outside the regions.
41	i 1	Error code for epicentre coordinates determination in degrees:
		$0 - \pm 0.01$ $3 - \pm 0.1$ $6 - \pm 1$
		$1 - \pm 0.02$ $4 - \pm 0.2$ $7 - \pm 2$
		$2 - \pm 0.05$ $5 - \pm 0.5$ $8 - \pm 5$

42-44 45	i 3 a1	Focal depth in kilometers. Symbol for focal depth: * - supposed focal depth value.	
46	i 1	Error code for focal depth determination (H – focal depth value). Instrumental determinations (δH): Macroseismic determinations (error limits):	
		0 - ± 0.02H 3 - H/1.2 - 1.2H	
		$1 - \pm 0.05H$ $4 - H/1.5 - 1.5H$	
		$2 - \pm 0.1H$ $5 - H/2 - 2H$	
		$3 - \pm 0.2H$ $6 - H/3 - 3H$	
		$4 - \pm 0.5H$ $7 - H/6 - 6H$	
		5- ±H -	
		6 - ± 2H -	
47	a1	Focal depth determination code:	
		* – based on macroseismic information;	
		Blank – instrumental determination.	
48-49	f2.1	Magnitude (as a rule, surface-wave, horizontal component or transformed to it).	
50	a1	Symbol for magnitude: * - supposed magnitude value.	
51-54	a4	Explanation of "magnitude" field:	
		MLHB, MLHC, MLVB, MLVC, MLH, MLV, ML, MLB, MLC – surface-wave magnitude	
		(symbols H and V mean horizontal or vertical component correspondingly,	
		symbols B and C mean intermediate or long-period seismometers correspondingly);	
		MLHD – MLH corrected for deep shocks, depth > 70 km;	
		MPV, MPVA, MPVB – body-wave magnitude	
		(symbols A and B mean short-period and intermediate-period seismometers), MPVA – is corrected for depth (for depth > 70 km),	
		MPVB = MPVA+0.3;	
		KLMH, *MPV – MLH calculated from K and MPV correspondingly;	
		KMPV – MPV calculated from K (for deep shocks, depth > 70 km);	
		MTAU, MINT, MRAD – magnitude calculated from record duration, from macroseismic da	ta or
		from maximum epicentral distance for station shock registration.	
55	i 1	Error code for magnitude determination.	
		δ M (number of independent Characteristic of macroseismic data:	
		i nstrumental determinations) :	
		0 - ± 0.1 (more than 20 stations); 2 - reliable map of isoseists, at least 4 isoseis	sts;
		$1 - \pm 0.2$ (11 – 20 stations); $3 - incomplete map of isoseists, depth is defined at the state of the sta$	ned
		$2 - \pm 0.3$ (6 – 10 stations); with an error in 1.5 times;	
		$3 - \pm 0.5 (3 - 5 \text{ stations});$ $4 - \text{ intensity in epicentre is known and depth}$	
		$4 - \pm 0.7$ (1 station, unreliable); is defined with an error in 2 times;	
		5 - ± 1.0 (indirect instrumental 5 - uncertainly evaluated intensity;	
		data – range of registration, 6 – indistinct mentioning.	
		number of stations);	
FC F7	: 0	$6 - \pm 2.0 (-)$.	
56-57	i 2	Number of independent instrumental determinations used for calculation of magnitude mean val	ue.
58-59	i 2	Intensity 1 at the epicentre (MSK-64 scale), e.g. if intensity is 6, then "06", if intensity is 5-6, then "05".	
60-61	i 2	Intensity 2 at the epicentre (MSK-64 scale), e.g. if intensity is 6, then "06",	
00 01	12	if intensity is 5-6, then "06".	
62	a1	Symbol for intensity at the epicentre: * – supposed value of intensity at the epicentre.	
63	i 1	Error code for epicentral intensity (I ₀) determination in degrees.	
		δ I ₀ : Characteristic of macroseismic data:	
		0 - ± 2 indistinct mentioning;	
		1 - ± 1 inexact or incomplete description;	
		2 - ± 0.5 exact description on several signs; two closed isoseists;	
		3 - ± 0.5 complete map of isoseists, three closed isoseists;	
		4 – ± 0.5 complete map of isoseists, four closed isoseists;	
		5 - ± 0.5 complete map of isoseists, five closed isoseists;	
		6 - ± 0.5 complete map of isoseists, six closed isoseists;	
		$7-\pm0.5$ complete map of isoseists, seven closed isoseists.	
64-65	i 2	Number of points on isoseismal map with known intensity.	
66-68	i 3	Focal depth based on instrumental data, in kilometers.	
69	i 1	Error code for focal depth value determination based on instrumental data.	

70-71	i 2	Number of stations used for focal depth determination based on instrumental data.
72-74	i 3	Focal depth based on isoseismals, in kilometers.
75-77	i 3	Focal depth based on relations between focal depth, magnitude and intensity at the epicentre.
78-80	f3.1	Surface-wave magnitude value (as a rule horizontal component, intermediate-period seismometers,
		if the component or instrument type are not specified).
81	i 1	Error code for MLHB value determination.
82-83	i 2	Number of stations for MLHB value determnation.
84-86	f3.1	Surface-wave magnitude value (horizontal component, long-period seismometers).
87	i 1	Error code for MLHC value determination.
88-89	i 2	Number of stations for MLHC value determination.
90-92	f3.1	Surface-wave magnitude value (vertical component, intermediate-period seismometers).
93	i 1	Error code for MLVB value determination.
94-95	i 2	Number of stations for MLVB value determination.
96-98	f3.1	Body-wave magnitude value (vertical component, intermediate-period seismometers).
99	i 1	Error code for MPVB value determination.
100-101	i 2	Number of stations for MPVB value determination.
102-104	f3.1	Body-wave magnitude value (vertical component, short-period seismometers).
105	i 1	Error code for MPVA value determination.
106-107	i 2	Number of stations for MPVA value determination.
108-110	f3.1	Magnitute value, calculated from record period duration.
111-112	i 2	Number of stations for MTAU value determination.
113-115	-	Magnitude value based on macroseismic data MINT.
116-118	f3.1	Energy class.
119-120	i 2	Value of minor semiaxis of epicentral coordinates determination error ellipse, in kilometers.
121-123	i 3	Value of major semiaxis of epicentral coordinates determination error ellipse, in kilometers.
124-127	i 3	Azimuth of major semiaxis of epicentral coordinates determination error ellipse, in degrees.
128	a1	Macroseismic data existance code:
		 I – source contains data about mean radii of isoseismals or about macroseismic effect in
		different points.
129-130	a2	Shock sequence code:
		A – aftershock;
		E – foreshock;
		M – main shock (or foreshocks and/or afterhocks existance is indicated);
		S – the shock belongs to a swarm;
		? – after these signs means doubt.
131-132	i 2	Earthquake's detailed description code:
		D – the Catalogue contains a special article with detalled description of the earthquake;
400 404		N – the Catalogue contains the name of the earthquake.
133-134	i 2	Tsunami code:
		T – the earthquake was accompanied by tsunami;
405 407		T? – tsunami supposed.
135-137	i 3	Code of contradictions, mistakes or inaccuracy in the sources, used in the Catalogue:
		# – contradictions or mistakes in the sources;
		V – inaccuracy in the sources;
		? – the catalogue contains notes like "vague data" or "uncertain interpretation";
120 114	7.,	M## – contradiction of macroseismic and instrumental data.
138-144	7x	Blanks. Record number.
145-148	i 4	
149-150	2x	Blanks.