

# Romania - Event 3877 Zona seismica Vrancea

Event local time: Sat Apr 25,2009 20:18:49

Sat Apr 25,2009 17:18:49 GMT N45.67 E26.61 Depth: 100 km ID: 4159

Measurements are based on data extracted and processed by an operator

ML: 5.82 Mw: 5.63 netm0: 0.820E+18 netf0: 0.80 neteqR: 2.52 Nsta: 43

## Station moment magnitude estimates - dbmw

sta	chamw	mw	m0	f0	eqR	timePmw	Pmw	timeSmw	Smw
PETR	HHT	5.6	0.317E+18	0.73	2.30	17:19:04	synt	17:19:16	synt
PETR	BHT	5.6	0.314E+18	0.73	2.31	17:19:04	synt	17:19:16	synt
GHRR	HHT	5.8	0.637E+18	0.83	2.01	17:19:06	synt	17:19:19	synt
GHRR	BHT	5.8	0.625E+18	0.84	1.99	17:19:06	synt	17:19:19	synt
MLR	HHT	5.0	0.393E+17	1.14	1.48	17:19:04	synt	17:19:17	synt
MLR	BHT	5.0	0.395E+17	1.14	1.47	17:19:04	synt	17:19:17	synt
VOIR	HHT	5.1	0.595E+17	0.90	1.87	17:19:10	db	17:19:27	synt
VOIR	BHT	5.1	0.583E+17	0.89	1.88	17:19:10	db	17:19:27	synt
GRER	EHT	4.9	0.344E+17	1.16	1.44	17:19:05	db	17:19:15	synt
SECR	EHT	6.8	0.247E+20	0.16	10.37	17:19:07	db	17:19:20	synt
PGOR	EHT	6.0	0.160E+19	0.35	4.82	17:19:07	db	17:19:21	synt
PLOR	HHT	5.1	0.545E+17	1.23	1.36	17:19:03	db	17:19:14	synt
PLOR	BHT	5.0	0.522E+17	1.25	1.34	17:19:03	db	17:19:14	synt
ISR	HHT	5.7	0.428E+18	0.93	1.79	17:19:05	synt	17:19:17	synt
ISR	BHT	5.7	0.424E+18	0.94	1.78	17:19:05	synt	17:19:17	synt
ODBI	EHT	5.7	0.582E+18	0.22	7.73	17:19:04	db	17:19:15	synt
TESR	HHT	5.4	0.183E+18	1.13	1.49	17:19:07	db	17:19:22	synt
TESR	BHT	5.4	0.187E+18	1.07	1.57	17:19:07	db	17:19:22	synt
DOPR	EHT	5.3	0.138E+18	0.83	2.01	17:19:08	db	17:19:23	synt
PLAR	EHT	5.9	0.113E+19	0.25	6.63	17:19:08	db	17:19:22	synt
SULR	HHT	6.2	0.304E+19	0.37	4.53	17:19:09	synt	17:19:25	synt
SULR	BHT	6.2	0.271E+19	0.36	4.62	17:19:09	synt	17:19:25	synt
VR1	HHT	5.1	0.568E+17	1.07	1.57	17:19:03	db	17:19:14	synt
VR1	BHT	5.1	0.561E+17	1.07	1.57	17:19:03	db	17:19:14	synt
PLOR4	HHT	5.1	0.545E+17	1.23	1.36	17:19:03	synt	17:19:14	synt
PLOR4	BHT	5.0	0.522E+17	1.25	1.34	17:19:03	synt	17:19:14	synt
PETR	HNT	5.6	0.351E+18	0.64	2.63	17:19:04	synt	17:19:16	synt
GHRR	HNT	5.8	0.588E+18	0.93	1.80	17:19:06	synt	17:19:19	synt
MLR	HNT	5.4	0.163E+18	1.10	1.53	17:19:04	synt	17:19:17	synt
VOIR	HNT	5.7	0.559E+18	0.33	5.02	17:19:10	db	17:19:27	synt
GRER	HNT	5.6	0.354E+18	0.66	2.56	17:19:05	db	17:19:15	synt
SECR	HNT	5.8	0.773E+18	1.16	1.45	17:19:07	db	17:19:20	synt
PGOR	HNT	5.7	0.515E+18	1.12	1.49	17:19:07	db	17:19:21	synt
PLOR	HNT	5.1	0.569E+17	1.16	1.45	17:19:03	db	17:19:14	synt
ISR	HNT	5.7	0.534E+18	0.81	2.07	17:19:05	synt	17:19:17	synt
ODBI	HNT	5.5	0.233E+18	0.60	2.81	17:19:04	db	17:19:15	synt
TESR	HNT	5.8	0.853E+18	0.42	3.96	17:19:07	db	17:19:22	synt
MTUR	HNT	5.9	0.980E+18	0.75	2.24	17:19:11	synt	17:19:28	synt
DOPR	HNT	5.5	0.283E+18	1.05	1.60	17:19:08	db	17:19:23	synt
PLAR	HNT	6.0	0.117E+19	0.60	2.81	17:19:08	db	17:19:22	synt
SULR	HNT	6.4	0.639E+19	0.28	6.04	17:19:09	synt	17:19:25	synt
VR1	HNT	5.2	0.824E+17	0.83	2.02	17:19:03	db	17:19:14	synt
PLOR4	HNT	5.1	0.569E+17	1.16	1.45	17:19:03	synt	17:19:14	synt

## Motion parameters extracted from Antelope tables

PETR HHZ 48 35.22 0.58 10.26 1.73 0.22 0.5095 1.6070

PETR	HHN	48	20.18	0.79	21.60	5.43	0.34	0.2287	2.4877	
PETR	HHE	48	16.43	0.98	21.65	5.70	0.59	0.2574	2.7849	
PETR	BHZ	48	12.61	0.37	7.62	1.71	0.21	0.1063	0.8276	
PETR	BHN	48	12.45	0.73	18.91	5.22	0.33	0.1464	2.1122	
PETR	BHE	48	14.19	0.91	18.93	5.66	0.57	0.1830	2.3681	
GHRR	HHZ	75	18.28	0.47	25.72	3.48	0.23	0.0843	1.6915	
GHRR	HHN	75	18.18	0.47	25.76	3.49	0.23	0.0844	1.6929	
GHRR	HHE	75	67.62	1.28	57.48	10.39	0.63	0.3164	4.2038	
GHRR	BHZ	75	7.63	0.45	23.20	3.43	0.21	0.0728	1.5363	
GHRR	BHN	75	7.65	0.45	23.27	3.44	0.21	0.0730	1.5370	
GHRR	BHE	75	19.04	1.25	52.00	10.29	0.59	0.1955	3.8766	
MLR	HHZ	55	1.53	0.12	3.10	0.72	0.06	0.0015	0.3813	
MLR	HHN	55	1.53	0.15	2.68	1.37	0.10	0.0016	0.5316	
MLR	HHE	55	1.44	0.15	2.07	1.76	0.11	0.0016	0.5512	
MLR	BHZ	55	1.53	0.12	3.03	0.72	0.06	0.0015	0.3795	
MLR	BHN	55	1.53	0.15	2.66	1.37	0.10	0.0016	0.5299	
MLR	BHE	55	1.45	0.15	2.06	1.76	0.11	0.0016	0.5503	
VOIR	HHZ	124	0.48	0.03	1.74	0.44	0.03	0.0005	0.1423	
VOIR	HHN	124	0.72	0.03	1.58	0.38	0.04	0.0005	0.1402	
VOIR	HHE	124	0.96	0.05	2.45	0.79	0.04	0.0012	0.2032	
VOIR	BHZ	124	0.39	0.03	1.57	0.43	0.03	0.0005	0.1353	
VOIR	BHN	124	0.67	0.03	1.41	0.37	0.04	0.0005	0.1288	
VOIR	BHE	124	0.84	0.05	2.24	0.79	0.04	0.0011	0.1910	
GRER	EHZ	42	5.53	0.29	4.65	2.55	0.25	0.0360	0.8522	
GRER	EHN	42	4.35	0.41	9.86	4.77	0.71	0.0130	1.5416	
GRER	EHE	42	0.01	0.00	0.00	0.00			0.0004	
SECR	EHZ	82	16.05	0.52	15.52	4.34	0.52	0.2609	1.9271	
SECR	EHN	82	90.21	1.54	47.94	18.12	6.60	0.8619	6.0274	
SECR	EHE	82	11.62	0.56	14.52	7.05	0.78	0.0817	2.0461	
PGOR	EHZ	87	8.92	0.18	3.72	2.13	0.30	0.1064	0.6828	
PGOR	EHN	87	6.44	0.50	8.55	3.30	1.63	0.0224	1.5282	
PGOR	EHE	87	6.09	0.47	4.46	5.45	0.96	0.0195	1.5751	
PLOR	HHZ	20	4.69	0.18	8.05	2.06	0.18	0.0280	0.7892	
PLOR	HHN	20	8.75	0.49	17.36	4.49	0.33	0.1109	2.2220	
PLOR	HHE	20	8.21	0.55	24.69	5.62	0.32	0.1024	2.2139	
PLOR	BHZ	20	3.29	0.17	7.36	2.04	0.18	0.0236	0.7357	
PLOR	BHN	20	7.70	0.48	16.22	4.49	0.32	0.1091	2.0764	
PLOR	BHE	20	7.18	0.55	22.46	5.58	0.32	0.1014	2.1213	
ISR	HHZ	61	5.55	0.32	9.63	5.55	0.29	0.0458	1.4352	
ISR	HHN	61	11.30	0.83	18.11	6.74	0.71	0.1453	2.6674	
ISR	HHE	61	10.69	0.63	16.85	7.54	0.43	0.1403	2.6518	
ISR	BHZ	61	4.99	0.32	8.68	5.51	0.29	0.0397	1.3600	
ISR	BHN	61	10.96	0.78	16.47	6.63	0.70	0.1321	2.5272	
ISR	BHE	61	9.95	0.60	15.65	7.30	0.41	0.1252	2.5325	
ODBI	EHZ	36	27.58	0.36	15.53	1.31	0.50	0.1449	0.9377	
ODBI	EHN	36	10.78	0.32	9.04	1.58	0.14	0.0690	1.0562	
ODBI	EHE	36	8.25	0.21	7.45	2.46	0.24	0.0468	0.8666	
TESR	HHZ	94	5.5	4.66	0.11	10.10	0.84	0.09	0.0120	0.4090
TESR	HHN	94	5.5	10.20	0.53	25.21	2.65	0.27	0.0348	1.6144
TESR	HHE	94	5.5	7.01	0.30	20.45	1.61	0.10	0.0316	1.0312
TESR	BHZ	94	5.5	2.34	0.10	9.28	0.83	0.09	0.0090	0.3755
TESR	BHN	94	5.5	8.37	0.54	22.84	2.58	0.27	0.0345	1.4995
TESR	BHE	94	5.5	7.10	0.28	18.64	1.60	0.10	0.0303	0.8954
MTUR	EHZ	129	1.35	0.12	3.85	2.37	0.20	0.0041	0.5879	
DOPR	EHZ	100	2.20	0.06	1.79	0.49	0.03	0.0021	0.2089	
DOPR	EHN	100	2.50	0.15	3.73	1.11	0.07	0.0047	0.5167	
DOPR	EHE	100	1.93	0.14	3.50	0.90	0.07	0.0052	0.4734	
PLAR	EHZ	95	4.56	0.19	4.61	1.54	0.11	0.0110	0.6023	
PLAR	EHN	95	5.40	0.21	9.51	0.93	0.11	0.0142	0.6556	
PLAR	EHE	95	3.89	0.07	2.35	0.51	0.04	0.0163	0.2586	
SULR	HHZ	113	14.02	0.40	11.01	3.36	0.26	0.1334	1.5212	
SULR	HHN	113	29.91	2.03	37.68	13.83	1.32	0.3171	6.3351	
SULR	HHE	113	14.98	0.68	22.60	3.32	0.40	0.1347	1.7951	
SULR	BHZ	113	8.60	0.35	10.56	3.29	0.24	0.0764	1.3638	
SULR	BHN	113	28.53	2.04	34.86	13.67	1.27	0.2880	6.1043	

SULR	BHE	113		9.38	0.59	20.99	3.17	0.39	0.1090	1.5550
VR1	HHZ	23		4.06	0.21	8.62	1.74	0.16	0.0204	0.7621
VR1	HHN	23		5.83	0.44	14.24	2.81	0.32	0.0448	1.5131
VR1	HHE	23		15.49	0.91	51.83	5.21	0.42	0.2221	2.8972
VR1	BHZ	23		3.25	0.19	7.86	1.72	0.16	0.0147	0.6953
VR1	BHN	23		5.51	0.42	13.22	2.72	0.32	0.0436	1.4312
VR1	BHE	23		14.24	0.89	46.95	5.13	0.40	0.2151	2.6910
PLOR4	HHZ	20		4.70	0.18	8.05	2.06	0.18	0.0280	0.7892
PLOR4	HHN	20		8.75	0.49	17.36	4.49	0.33	0.1109	2.2220
PLOR4	HHE	20		8.21	0.55	24.69	5.62	0.32	0.1024	2.2138
PLOR4	BHZ	20		3.29	0.17	7.36	2.04	0.18	0.0236	0.7357
PLOR4	BHN	20		7.70	0.48	16.21	4.49	0.32	0.1092	2.0763
PLOR4	BHE	20		7.18	0.55	22.46	5.58	0.32	0.1015	2.1213
PETR	HNZ	48		28.89	0.47	10.91	1.57	0.20	0.4215	1.4552
PETR	HNN	48		14.79	0.69	18.91	4.84	0.30	0.1714	2.2380
PETR	HNE	48		15.10	0.89	18.80	5.13	0.54	0.2107	2.5077
GHRR	HNZ	75		7.26	0.34	12.25	2.19	0.20	0.0599	1.0775
GHRR	HNN	75		18.49	0.99	49.54	7.03	0.41	0.2575	3.1962
GHRR	HNE	75		23.65	1.38	59.08	10.21	0.66	0.2045	4.1845
MLR	HNZ	55		6.09	0.46	12.37	2.88	0.25	0.0233	1.5275
MLR	HNN	55		5.75	0.59	10.01	5.39	0.37	0.0234	2.0630
MLR	HNE	55		6.00	0.59	8.59	7.05	0.45	0.0273	2.2531
VOIR	HNZ	124		0.89	0.04	2.76	0.52	0.04	0.0009	0.1840
VOIR	HNN	124		1.03	0.05	2.20	1.10	0.05	0.0014	0.2601
VOIR	HNE	124		0.96	0.07	2.42	0.81	0.06	0.0012	0.3007
GRER	HNZ	42		7.37	0.36	5.66	2.46	0.18	0.0606	0.9897
GRER	HNN	42		11.61	1.24	34.05	11.93	0.69	0.1203	4.1264
GRER	HNE	42		10.59	0.78	15.90	5.61	0.53	0.0701	2.1995
SECR	HNZ	82		18.49	0.60	18.38	3.96	0.27	0.3487	2.0507
SECR	HNN	82		55.37	2.50	83.94	23.43	1.58	1.2693	8.3701
SECR	HNE	82		30.34	1.25	43.81	15.61	0.82	0.6824	4.5078
PGOR	HNZ	87		11.48	0.20	4.69	2.10	0.21	0.1764	0.7092
PGOR	HNN	87		17.79	0.84	26.75	5.94	0.83	0.2173	3.0696
PGOR	HNE	87		18.28	1.33	19.16	12.04	0.79	0.2061	4.4377
PLOR	HNZ	20		4.47	0.18	7.94	2.05	0.18	0.0259	0.7793
PLOR	HNN	20		8.81	0.43	17.19	4.04	0.34	0.0989	2.1363
PLOR	HNE	20		7.55	0.48	21.67	5.13	0.27	0.0821	2.0166
ISR	HNZ	61		5.48	0.32	9.79	5.66	0.31	0.0462	1.4652
ISR	HNN	61		11.18	0.81	17.50	6.92	0.70	0.1422	2.6222
ISR	HNE	61		10.56	0.63	17.32	7.78	0.45	0.1440	2.7299
ODBI	HNZ	36		31.34	0.72	22.29	2.60	0.22	0.2262	2.1187
ODBI	HNN	36		22.02	0.65	18.94	3.27	0.30	0.2930	2.1706
ODBI	HNE	36		17.02	0.45	15.71	5.07	0.62	0.2046	1.8512
TESR	HNZ	94	5.5	4.27	0.11	9.70	0.84	0.09	0.0111	0.4011
TESR	HNN	94	5.5	9.71	0.52	24.52	2.66	0.28	0.0335	1.5823
TESR	HNE	94	5.5	6.82	0.30	20.25	1.57	0.10	0.0307	1.0209
MTUR	HNZ	129		1.53	0.13	4.49	2.45	0.25	0.0055	0.6395
MTUR	HNN	129		3.44	0.27	10.11	3.60	0.30	0.0221	1.1565
MTUR	HNE	129		3.84	0.41	7.94	5.95	0.44	0.0182	1.6665
DOPR	HNZ	100		3.47	0.12	2.98	2.11	0.15	0.0057	0.6137
DOPR	HNN	100		4.62	0.38	7.33	4.80	0.26	0.0145	1.3846
DOPR	HNE	100		3.76	0.38	6.94	3.92	0.25	0.0171	1.2811
PLAR	HNZ	95		5.66	0.15	3.76	2.00	0.21	0.0384	0.7008
PLAR	HNN	95		7.00	0.47	7.95	7.29	0.68	0.0397	2.0337
PLAR	HNE	95		9.86	0.41	17.61	4.48	0.32	0.0488	1.3984
SULR	HNZ	113		12.33	0.35	9.82	2.97	0.23	0.1159	1.3791
SULR	HNN	113		33.53	1.83	39.52	12.01	1.20	0.3963	5.8344
SULR	HNE	113		15.42	0.80	23.75	4.65	0.36	0.1851	2.1834
VR1	HNZ	23		3.42	0.21	8.80	1.73	0.16	0.0183	0.7592
VR1	HNN	23		5.60	0.43	14.31	2.79	0.32	0.0422	1.4987
VR1	HNE	23		14.97	0.92	50.69	5.20	0.43	0.2069	2.8898
PLOR4	HNZ	20		4.46	0.18	7.94	2.05	0.18	0.0259	0.7793
PLOR4	HNN	20		8.83	0.43	17.18	4.04	0.34	0.0989	2.1362
PLOR4	HNE	20		7.55	0.48	21.67	5.13	0.27	0.0821	2.0166