



PROGRAMMA OPERATIVO NAZIONALE RICERCA E COMPETITIVITÀ PER LE REGIONI DELLA CONVERGENZA - 2007/2013 - CCI: 2007IT161PO006

ASSE I “SOSTEGNO AI MUTAMENTI STRUTTURALI”

OBIETTIVO OPERATIVO 4.1.1.1. “AREE SCIENTIFICO-TECNOLOGICHE GENERATRICI DI PROCESSI DI TRASFORMAZIONE DEL SISTEMA PRODUTTIVO E CREATRICI DI NUOVI SETTORI”

AZIONE II: “INTERVENTI DI SOSTEGNO DELLA RICERCA INDUSTRIALE”

PROGETTO PON01_02710 MASSIMO

AMBITO/SETTORE BENI CULTURALI

CUP B21C11000550005

UNIVERSITÀ DELLA CALABRIA – DIPARTIMENTO DI FISICA

BOLLETTINO

DELLA

SISMICITÀ DELLA CALABRIA

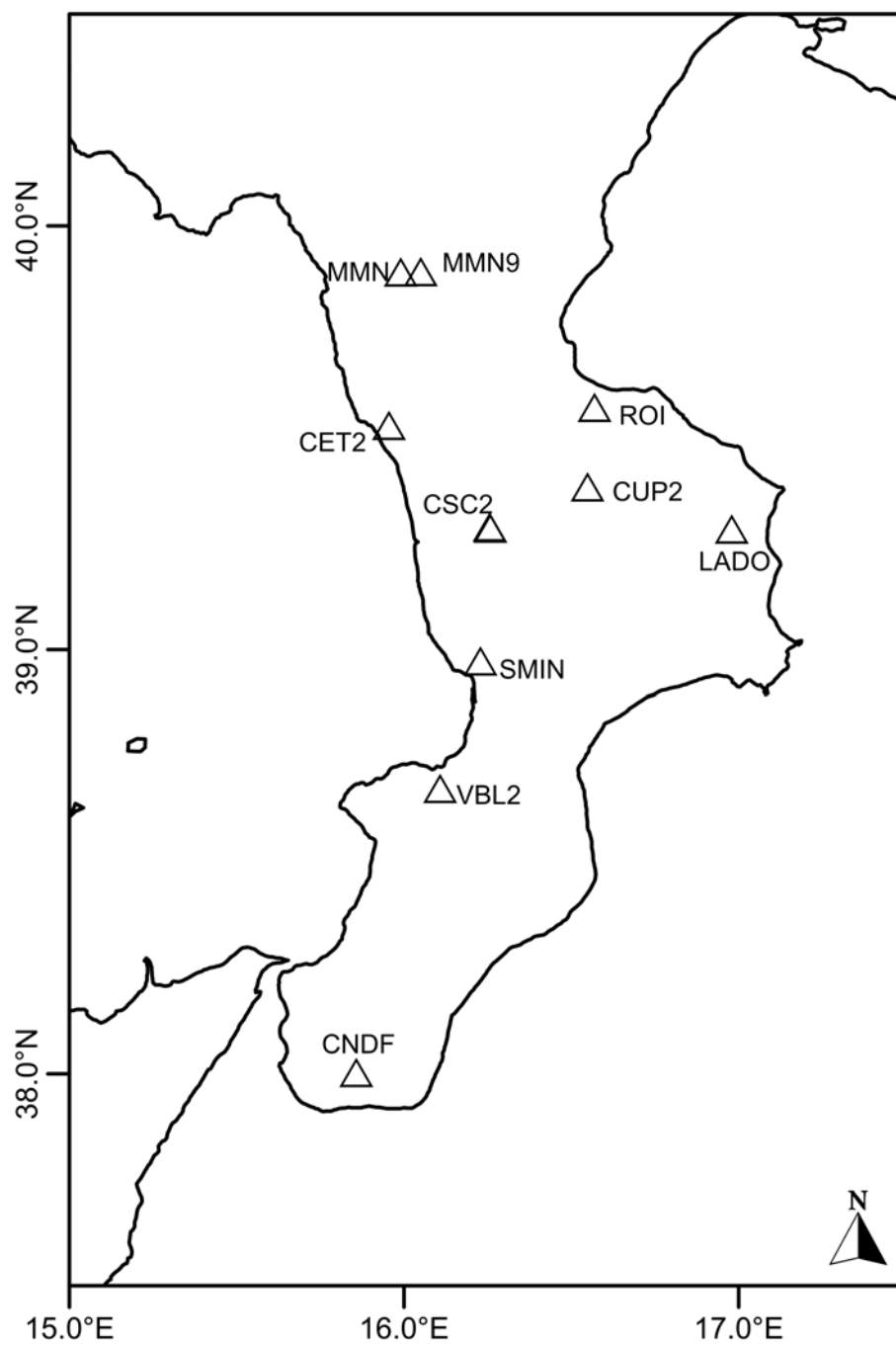
E

DELLE AREE CIRCOSTANTI

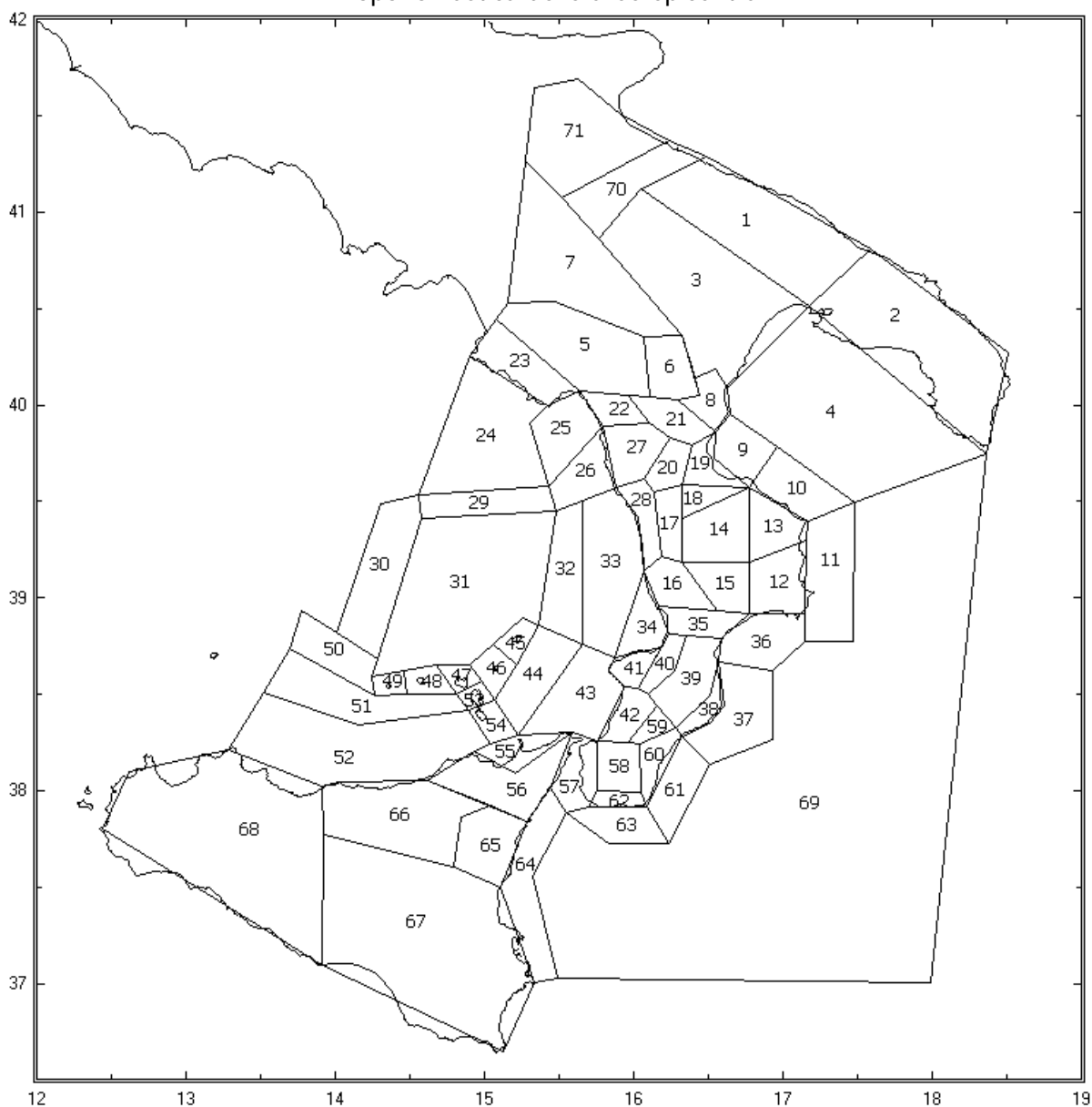
prodotto nell'ambito delle attività dell'O.R. 2.1

Periodo 01-15 Dicembre 2013

Distribuzione delle stazioni della Rete Sismica UniCal – Pon MASSIMO



Toponomastica delle aree epicentrali

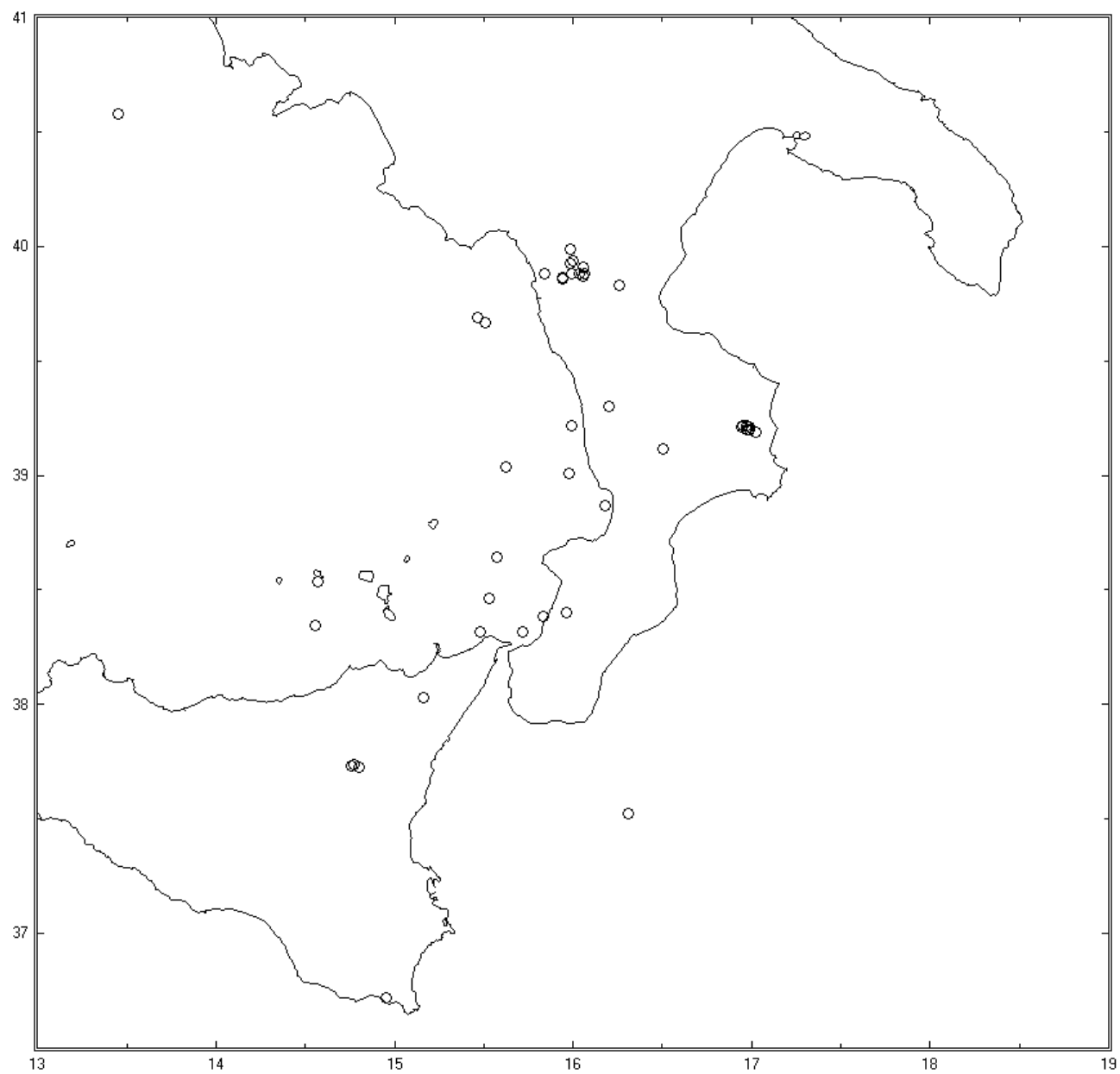


1 Murge	19 Piana di Sibari	37 Offshore Punta Stilo	55 Milazzo
2 Penisola Salentina	20 Valle dell'Esaro	38 Punta Stilo	56 Monti Peloritani
3 Piana del Bradano e del Basento	21 Catena del Pollino	39 Serre centro-settentrionali	57 Stretto di Messina
4 Golfo di Taranto	22 Marate - Rotonda	40 Valle del Mesima	58 Aspromonte
5 Vallo di Diano	23 Cilento	41 Monte Poro	59 Serre meridionali
6 Bacino di Sant'Arcangelo	24 Offshore Cilento	42 Piana di Gioia Tauro	60 Locride
7 Appennino Lucano	25 Golfo di Policastro	43 Bacino di Gioia	61 Offshore Locride
8 Confine calabro-lucano or.	26 Offshore Scalea - Diamante	44 Canyon di Stromboli	62 Aspromonte meridionale
9 Golfo di Sibari	27 Alto Tirreno Cosentino	45 Stromboli	63 Offshore Calabria Meridionale
10 Offshore Cirò	28 Catena Costiera	46 Panarea	64 Coste Sicilia or.
11 Offshore Crotona	29 Vulcani Palinuro ed Entrio	47 Salina	65 Etna
12 Marchesato	30 Vulcano Marsili	48 Filicudi	66 Monti Madonie - Nebrodi
13 Presila Nord-or.	31 Piana Batiale del tirreno	49 Alicudi	67 Sicilia centro-meridionale
14 Sila Grande	32 Scarpata di Paola	50 Seamount Sisifo ed Eolo	68 Sicilia occidentale
15 Sila Piccola	33 Bacino di Paola	51 Bacino di Alicudi	69 Piana batiale ionica
16 Amantea - Monte Reventino	34 Golfo di Sant'Eufemia	52 Bacino di Cefalù	70 Ofanto
17 Valle del Crati	35 Stretta di Catanzaro	53 Lipari	71 Capitanata
18 Sila Greca	36 Golfo di Squillace	54 Vulcano	

Parametri ipocentrali degli eventi localizzati nel periodo di riferimento

Data	Orario		Lat N	LON E	H ₀	m	Δlat	Δlon	ΔH ₀	nr	GAP	sqm	ΔT ₀
aammgg	hhmm	ss.s	°	°	km		km	km	km		°	sec	sec
131202	0000	18.7	37.5227	16.3055	38.9	3.1	1.14	1.74	4.25	52	220	0.54	0.24
131203	0957	43.9	39.9900	15.9849	23.0	1.9	0.90	1.52	2.30	12	159	0.40	0.13
131204	0316	40.5	38.5350	14.5713	40.5	2.4	2.72	1.91	3.61	15	157	0.45	0.22
131205	1731	31.6	38.3173	15.7153	15.5	2.2	0.50	0.36	1.86	39	86	0.32	0.06
131206	0001	40.5	38.8674	16.1823	7.5	1.3	0.53	0.77	1.89	15	123	0.33	0.09
131207	0143	22.8	39.8817	15.9902	4.0	1.4	0.51	1.24	1.90	20	144	0.33	0.08
131207	0836	34.8	39.2995	16.1987	10.8	1.6	0.67	0.63	1.21	14	159	0.21	0.07
131207	1026	56.5	39.9252	15.9845	5.3	1.2	0.92	1.38	1.39	9	178	0.24	0.10
131208	0446	38.7	38.4032	15.9642	45.6	2.0	1.27	1.70	5.06	33	85	0.65	0.13
131208	0756	58.6	39.8834	16.0336	7.5	2.3	0.71	1.00	3.07	30	88	0.53	0.10
131208	1101	54.1	39.8844	16.0626	8.5	1.3	0.74	0.94	1.78	11	116	0.31	0.11
131209	0053	45.3	38.3448	14.5587	212.9	3.0	1.92	1.64	3.99	55	103	0.50	0.09
131209	0612	50.5	39.0384	15.6239	200.9	2.4	1.86	3.31	3.83	37	157	0.46	0.12
131209	1024	28.3	39.9367	15.9967	4.2	0.8	0.63	0.97	1.05	9	184	0.18	0.10
131210	0302	55.9	39.8811	15.8400	20.2	1.0	0.76	1.71	1.96	12	184	0.34	0.17
131210	0936	18.9	39.8670	15.9390	0.0	0.7	0.33	0.49	1.06	12	145	0.23	0.08
131210	1059	53.1	38.3831	15.8304	16.7	2.0	0.28	0.39	0.86	17	125	0.15	0.05
131210	1128	48.8	39.0082	15.9765	60.5	3.0	0.88	1.45	6.08	79	75	0.78	0.09
131210	1547	26.5	39.9117	16.0538	5.0	2.4	0.56	0.73	2.20	25	101	0.38	0.08
131210	1806	18.6	39.8303	16.2554	10.8	1.4	0.71	0.81	1.85	12	161	0.32	0.13
131210	2034	15.9	39.6876	15.4668	5.0	2.2	1.01	1.82	3.01	32	185	0.67	0.25
131210	2039	38.9	39.6660	15.5075	0.0	2.7	1.58	1.77	2.18	14	248	0.48	0.34
131210	2108	50.8	39.1178	16.5071	18.1	2.4	0.37	0.48	1.77	33	77	0.31	0.06
131210	2157	20.1	39.2000	16.9747	23.8	1.1	1.06	1.75	1.62	8	231	0.25	0.19
131211	0039	57.7	39.1907	17.0229	27.0	1.2	1.11	1.62	1.84	10	259	0.28	0.22
131211	2223	22.7	39.8697	16.0585	8.2	1.6	0.37	0.52	1.21	12	98	0.21	0.06
131211	2229	51.5	38.0286	15.1620	56.3	1.4	6.71	7.80	5.87	9	210	0.73	0.44
131212	1041	53.4	39.2163	15.9934	51.8	1.7	1.33	2.35	3.03	12	166	0.39	0.15
131212	1352	31.7	38.6448	15.5732	154.3	2.3	2.43	4.06	3.64	16	169	0.44	0.15
131212	1851	26.8	39.8618	15.9390	3.4	1.0	0.50	1.21	1.60	9	172	0.28	0.13
131213	0113	31.3	38.3149	15.4819	130.9	2.2	1.98	2.50	4.06	26	87	0.49	0.10
131213	0551	18.3	40.5770	13.4557	0.0	2.5	2.79	4.16	3.01	14	235	0.67	0.56
131213	1815	41.4	38.4646	15.5283	135.0	2.2	2.15	4.36	3.93	18	161	0.47	0.16
131213	2350	25.2	39.2123	16.9862	26.4	1.1	0.93	1.34	1.67	10	237	0.26	0.16
131214	0003	5.1	39.1987	16.9863	26.1	1.2	1.07	1.41	2.02	12	238	0.31	0.19
131214	1013	34.5	39.2176	16.9476	23.4	1.3	0.61	0.85	1.21	10	207	0.19	0.10
131214	1457	38.5	39.2126	16.9457	23.4	1.5	1.80	2.19	3.79	14	208	0.58	0.29
131214	1944	18.0	37.7277	14.7978	20.9	2.5	0.73	1.08	4.02	42	70	0.69	0.11
131214	2115	40.3	37.7296	14.7576	23.6	2.5	0.62	0.88	3.08	40	65	0.53	0.09
131214	2149	5.0	37.7354	14.7719	24.3	3.4	0.58	0.78	3.01	49	44	0.52	0.08
131215	0357	32.8	36.7171	14.9547	5.8	3.9	1.21	1.19	2.15	35	219	0.48	0.24
131215	0839	12.0	39.2171	16.9716	25.5	0.7	0.97	1.02	0.57	8	225	0.09	0.07

Epicentri localizzati nel periodo di riferimento



BOLLETTINO

1	131202 0000 18.7 - Piana bat. ionica	STN	PHASE	MN	SEC	DIST	AZM	RES
	Lat: 37.52 Lon: 16.30 Prof: 38.9 Km	MMN	P	26	57.99	3.85	172.3	0.036
	± 1.14 km ± 1.74 km ± 4.2 km	MMN	S	27	-.50	3.85	172.3	0.465
	RMS: 0.54s GAP: 220.3° NR: 52							
	STN PHASE MN SEC DIST AZM RES							
	CNDF P 00 31.37 66.37 323.6 0.170							
	CNDF S 00 41.07 66.37 323.6 0.743							
	CET2 P 00 50.81 224.78 352.2 0.616							
2	131203 0957 43.8 - Maratea - Rotonda							
	Lat: 39.99 Lon: 15.98 Prof: 23.0 Km							
	± 0.90 km ± 1.52 km ± 2.3 km							
	RMS: 0.40s GAP: 159.0° NR: 12							
	STN PHASE MN SEC DIST AZM RES							
	MMN P 57 48.93 11.02 177.6 0.281							
	MMN S 57 51.30 11.02 177.6 -0.819							
	CET2 P 57 54.36 51.27 183.1 0.238							
	CET2 S 58 .98 51.27 183.1 -0.617							
3	131204 0316 40.5 - Filicudi							
	Lat: 38.53 Lon: 14.57 Prof: 40.5 Km							
	± 2.72 km ± 1.91 km ± 3.6 km							
	RMS: 0.45s GAP: 157.4° NR: 15							
	STN PHASE MN SEC DIST AZM RES							
	VBL2 P 17 1.42 134.74 84.0 -0.221							
4	131205 1731 31.6 - Bacino di Gioia							
	Lat: 38.31 Lon: 15.71 Prof: 15.5 Km							
	± 0.50 km ± 0.36 km ± 1.9 km							
	RMS: 0.32s GAP: 86.4° NR: 39							
	STN PHASE MN SEC DIST AZM RES							
	CNDF P 31 39.10 37.01 160.7 0.223							
	CNDF S 31 44.04 37.01 160.7 -0.152							
	VBL2 P 31 41.71 52.33 41.1 0.285							
	VBL2 S 31 48.62 52.33 41.1 0.014							
	CET2 P 31 53.85 136.08 9.0 0.315							
	CET2 S 32 8.81 136.08 9.0 -0.771							
5	131206 0001 40.4 - G. di S. Eufemia							
	Lat: 38.86 Lon: 16.18 Prof: 7.5 Km							
	± 0.53 km ± 0.77 km ± 1.9 km							
	RMS: 0.33s GAP: 123.3° NR: 15							
	STN PHASE MN SEC DIST AZM RES							
	VBL2 P 01 45.33 22.44 196.8 0.338							
	VBL2 S 01 48.29 22.44 196.8 0.004							
	CET2 P 01 54.16 76.01 345.1 -0.242							
6	131207 0143 22.8 - Alto Tirreno Cosentino							
	Lat: 39.88 Lon: 15.99 Prof: 4.0 Km							
	± 0.51 km ± 1.24 km ± 1.9 km							
	RMS: 0.33s GAP: 144.2° NR: 20							
	STN PHASE MN SEC DIST AZM RES							
	MMN P 43 23.96 1.01 2.4 0.055							
	MMN S 43 24.68 1.01 2.4 0.001							
	CET2 P 43 30.23 39.30 184.6 -0.142							
	CET2 S 43 35.71 39.30 184.6 -0.169							
7	131207 0836 34.7 - Valle del Crati							
	Lat: 39.29 Lon: 16.19 Prof: 10.8 Km							
	± 0.67 km ± 0.63 km ± 1.2 km							
	RMS: 0.21s GAP: 159.7° NR: 14							
	STN PHASE MN SEC DIST AZM RES							
	SCOI P 36 37.31 5.11 102.8 0.233							
	SCOI S 36 38.69 5.11 102.8 -0.061							
	CSC2 P 36 37.36 5.31 106.0 0.259							
	CSC2 S 36 38.74 5.31 106.0 -0.052							
	CET2 P 36 41.48 33.01 320.6 0.137							
	CET2 S 36 45.63 33.01 320.6 -0.511							
8	131207 1026 56.4 - Maratea - Rotonda							
	Lat: 39.92 Lon: 15.98 Prof: 5.3 Km							
	± 0.92 km ± 1.38 km ± 1.4 km							
	RMS: 0.24s GAP: 178.7° NR: 9							
	STN PHASE MN SEC DIST AZM RES							
	MMN P 24 29.78 5.11 186.0 0.016							
	MMN S 24 30.91 5.11 186.0 0.042							
9	131208 0446 38.7 - Piana di Gioia							
	Lat: 38.40 Lon: 15.96 Prof: 45.6 Km							
	± 1.27 km ± 1.70 km ± 5.1 km							
	RMS: 0.65s GAP: 85.0° NR: 33							
	STN PHASE MN SEC DIST AZM RES							
	VBL2 P 46 48.12 32.55 22.8 0.014							
	VBL2 S 46 54.86 32.55 22.8 -0.113							
	CNDF P 46 49.46 45.36 192.1 0.193							
	CNDF S 46 57.53 45.36 192.1 0.545							
	CET2 P 46 58.59 124.96 359.8 0.696							
	CET2 S 47 12.44 124.96 359.8 0.514							
10	131208 0756 58.5 - Alto Tirreno Cosentino							
	Lat: 39.88 Lon: 16.03 Prof: 7.5 Km							
	± 0.71 km ± 1.00 km ± 3.1 km							
	RMS: 0.53s GAP: 88.2° NR: 30							
	STN PHASE MN SEC DIST AZM RES							
	MMN P 57 .36 3.77 282.8 0.004							
	MMN S 57 1.44 3.77 282.8 -0.228							
	CET2 P 57 5.82 39.95 189.9 -0.399							
	CET2 S 57 11.04 39.95 189.9 -0.783							
	CSC2 P 57 10.25 69.03 163.9 -0.712							
	CUP2 P 57 12.27 70.94 141.5 0.855							
	CUP2 S 57 20.70 70.94 141.5 -0.122							
11	131208 1101 54.1 - Alto Tirreno Cosentino							
	Lat: 39.88 Lon: 16.06 Prof: 8.5 Km							
	± 0.74 km ± 0.94 km ± 1.8 km							
	RMS: 0.31s GAP: 116.2° NR: 11							
	STN PHASE MN SEC DIST AZM RES							
	MMN P 01 56.28 6.20 276.8 -0.002							
	MMN S 01 57.34 6.20 276.8 -0.526							
	CET2 P 02 1.99 40.55 193.4 0.088							
	CET2 S 02 7.13 40.55 193.4 -0.465							
12	131209 0053 45.3 - Bacino di Cefalù							
	Lat: 38.34 Lon: 14.55 Prof: 212.9 Km							
	± 1.92 km ± 1.64 km ± 4.0 km							
	RMS: 0.50s GAP: 103.7° NR: 55							
	STN PHASE MN SEC DIST AZM RES							
	CNDF P 54 17.82 119.94 109.1 0.100							
	VBL2 P 54 18.77 139.98 75.4 -0.578							
	VBL2 S 54 44.21 139.98 75.4 -0.065							
	CSC2 P 54 21.77 180.83 55.2 -0.760							
	CSC2 S 54 49.94 180.83 55.2 0.155							
	CET2 P 54 22.14 178.67 43.3 0.650							
	CET2 S 54 48.15 178.67 43.3 0.166							
13	131209 0612 50.4 - Scarpata di Paola							
	Lat: 39.03 Lon: 15.62 Prof: 200.9 Km							
	± 1.86 km ± 3.31 km ± 3.8 km							
	RMS: 0.46s GAP: 157.9° NR: 37							
	STN PHASE MN SEC DIST AZM RES							
	VBL2 P 13 17.99 58.34 134.2 -0.291							
	VBL2 S 13 38.08 58.34 134.2 -0.557							
	CSC2 P 13 18.27 61.31 63.5 -0.057							
	CSC2 S 13 38.50 61.31 63.5 -0.215							
	CET2 P 13 18.39 61.46 27.9 0.673							
	CET2 S 13 38.44 61.46 27.9 0.781							
	CNDF P 13 21.25 116.70 170.3 0.117							
	CNDF S 13 43.97 116.70 170.3 0.394							
14	131209 1024 28.2 - Maratea - Rotonda							
	Lat: 39.93 Lon: 15.99 Prof: 4.2 Km							
	± 0.63 km ± 0.97 km ± 1.0 km							
	RMS: 0.18s GAP: 184.7° NR: 9							
	STN PHASE MN SEC DIST AZM RES							
	MMN P 24 29.78 5.11 186.0 0.016							
	MMN S 24 30.91 5.11 186.0 0.042							

15 131210 0302 55.8 - Alto Tirreno Cosentino
 Lat: 39.88 Lon: 15.84 Prof: 20.2 Km
 ± 0.76 km ± 1.71 km ± 2.0 km
 RMS: 0.34s GAP: 184.7° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	03	.69	12.92	85.4	0.346
MMN	S	03	3.60	12.92	85.4	-0.025
CET2	P	03	4.22	40.32	166.1	0.074
CET2	S	03	9.70	40.32	166.1	-0.508

16 131210 0936 18.9 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 15.93 Prof: 0.0 Km
 ± 0.33 km ± 0.49 km ± 1.1 km
 RMS: 0.23s GAP: 145.3° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	36	20.28	5.15	59.2	0.225
MMN	S	36	21.07	5.15	59.2	0.164
CET2	P	36	26.80	37.57	178.1	0.229
CET2	S	36	32.03	37.57	178.1	-0.160

17 131210 1059 53.0 - Bacino di Gioia
 Lat: 38.38 Lon: 15.83 Prof: 16.7 Km
 ± 0.28 km ± 0.39 km ± 0.9 km
 RMS: 0.15s GAP: 125.0° NR: 17

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	00	1.28	42.22	177.1	0.058
CNDF	S	00	7.04	42.22	177.1	-0.153

18 131210 1128 48.7 - Bacino di Paola
 Lat: 39.00 Lon: 15.97 Prof: 60.5 Km
 ± 0.88 km ± 1.45 km ± 6.1 km
 RMS: 0.78s GAP: 75.5° NR: 79

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	29	-0.37	38.83	163.0	-0.083
VBL2	S	29	7.16	38.83	163.0	-0.531
CSC2	P	29	-0.23	39.30	38.3	0.064
CSC2	S	29	7.56	39.30	38.3	-0.135
SCOI	P	29	-0.19	39.48	37.9	0.096
SCOI	S	29	7.53	39.48	37.9	-0.179
CET2	P	29	1.46	57.83	358.3	0.617
CET2	S	29	10.20	57.83	358.3	0.534
MMN	P	29	5.72	98.00	.9	-0.293
MMN	S	29	17.89	98.00	.9	-0.726
CNDF	P	29	7.59	112.03	185.5	0.194
CNDF	S	29	21.14	112.03	185.5	0.128

19 131210 1547 26.5 - Alto Tirreno Cosentino
 Lat: 39.91 Lon: 16.05 Prof: 5.0 Km
 ± 0.56 km ± 0.73 km ± 2.2 km
 RMS: 0.38s GAP: 101.8° NR: 25

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	47	34.41	43.35	191.5	-0.355
CSC2	P	47	39.82	71.60	165.9	0.459
CSC2	S	47	49.52	71.60	165.9	0.772
CUP2	P	47	39.88	72.38	144.1	0.260

20 131210 1806 18.5 - Catena del Pollino
 Lat: 39.83 Lon: 16.25 Prof: 10.8 Km
 ± 0.71 km ± 0.81 km ± 1.9 km
 RMS: 0.32s GAP: 161.7° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	06	23.55	23.63	286.6	-0.007
MMN	S	06	26.67	23.63	286.6	-0.521
CET2	P	06	26.86	42.27	217.7	0.044
CET2	S	06	32.32	42.27	217.7	-0.513

21 131210 2034 15.8 - G. di Policastro
 Lat: 39.68 Lon: 15.46 Prof: 5.0 Km
 ± 1.01 km ± 1.82 km ± 3.0 km
 RMS: 0.67s GAP: 185.7° NR: 32

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	34	24.12	45.44	113.2	-0.280
CET2	S	34	29.77	45.44	113.2	-0.846

MMN	P	34	25.05	50.22	63.6	-0.087
MMN	S	34	32.36	50.22	63.6	0.465
SCOI	P	34	30.46	81.05	123.3	0.104
SCOI	S	34	40.40	81.05	123.3	-0.542
CSC2	P	34	30.75	81.33	123.5	0.339
CSC2	S	34	40.85	81.33	123.5	-0.183
CUP2	P	34	33.18	98.90	110.1	-0.071
CUP2	S	34	45.90	98.90	110.1	-0.054
VBL2	P	34	38.02	125.44	154.1	0.978
VBL2	S	34	52.12	125.44	154.1	-0.407

22 131210 2039 38.9 - G. di Policastro
 Lat: 39.66 Lon: 15.50 Prof: 0.0 Km
 ± 1.58 km ± 1.77 km ± 2.2 km
 RMS: 0.48s GAP: 248.2° NR: 14

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	39	47.24	41.31	112.0	-0.306
CET2	S	39	53.03	41.31	112.0	-0.826
MMN	P	39	48.28	48.33	59.2	-0.223
MMN	S	39	55.68	48.33	59.2	0.166
SCOI	P	39	53.25	76.82	123.2	-0.086
SCOI	S	40	4.55	76.82	123.2	0.663
CSC2	P	39	53.44	77.10	123.4	0.046
CSC2	S	40	4.14	77.10	123.4	0.163
CUP2	P	39	56.06	94.81	109.5	-0.509
CUP2	S	40	10.02	94.81	109.5	0.536
VBL2	P	40	.64	121.76	155.1	0.072
VBL2	S	40	15.88	121.76	155.1	-0.525
LADO	P	40	2.35	133.55	108.5	0.857
CNDF	P	40	8.66	187.07	171.0	0.062

23 131210 2108 50.7 - Sila Piccola
 Lat: 39.11 Lon: 16.50 Prof: 18.1 Km
 ± 0.37 km ± 0.48 km ± 1.8 km
 RMS: 0.31s GAP: 77.4° NR: 33

STN	PHASE	MN	SEC	DIST	AZM	RES
SCOI	P	08	56.72	28.82	311.2	-0.191
SCOI	S	09	1.42	28.82	311.2	0.008
CSC2	P	08	56.75	28.51	310.9	-0.120
CSC2	S	09	1.42	28.51	310.9	0.076
CUP2	P	08	57.37	29.69	6.7	0.175
CUP2	S	09	2.34	29.69	6.7	0.442
LADO	P	08	59.25	44.76	65.4	-0.183
LADO	S	09	6.17	44.76	65.4	0.389
VBL2	P	09	2.25	60.24	215.0	0.265
VBL2	S	09	9.82	60.24	215.0	-0.383
CET2	P	09	2.73	65.96	313.8	-0.281
CET2	S	09	11.77	65.96	313.8	-0.201
MMN	P	09	7.73	96.63	332.6	-0.449
MMN	S	09	21.69	96.63	332.6	0.761
CNDF	P	09	14.62	136.07	204.6	0.771
CNDF	S	09	30.98	136.07	204.6	0.230

24 131210 2157 20.1 - Marchesato
 Lat: 39.20 Lon: 16.97 Prof: 23.8 Km
 ± 1.06 km ± 1.75 km ± 1.6 km
 RMS: 0.25s GAP: 231.3° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	57	24.75	9.32	2.0	-0.042
LADO	S	57	28.23	9.32	2.0	0.028

25 131211 0039 57.7 - Marchesato
 Lat: 39.19 Lon: 17.02 Prof: 27.0 Km
 ± 1.11 km ± 1.62 km ± 1.8 km
 RMS: 0.28s GAP: 259.3° NR: 10

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	40	3.10	11.01	339.6	0.160
LADO	S	40	6.59	11.01	339.6	-0.163
CUP2	P	40	7.00	46.21	297.2	-0.234
CUP2	S	40	14.42	46.21	297.2	0.228

26 131211 2223 22.7 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.05 Prof: 8.2 Km
 ± 0.37 km ± 0.52 km ± 1.2 km
 RMS: 0.21s GAP: 98.8° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	23	24.79	6.26	292.2	-0.082
MMN	S	23	26.10	6.26	292.2	-0.327
CET2	P	23	30.29	38.88	193.4	0.062
CET2	S	23	35.48	38.88	193.4	-0.228

27 131211 2229 51.4 - M. Peloritani
 Lat: 38.02 Lon: 15.16 Prof: 56.3 Km
 ± 6.71 km ± 7.80 km ± 5.9 km
 RMS: 0.73s GAP: 210.4° NR: 9

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	30	5.04	61.11	93.1	0.700

28 131212 1041 53.4 - Bacino di Paola
 Lat: 39.21 Lon: 15.99 Prof: 51.8 Km
 ± 1.33 km ± 2.35 km ± 3.0 km
 RMS: 0.39s GAP: 166.6° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	42	3.02	34.85	354.7	0.356
CET2	S	42	10.07	34.85	354.7	0.649
CUP2	P	42	5.19	51.32	68.8	0.526

29 131212 1352 31.7 - Bacino di Gioia
 Lat: 38.64 Lon: 15.57 Prof: 154.3 Km
 ± 2.43 km ± 4.06 km ± 3.6 km
 RMS: 0.44s GAP: 169.2° NR: 16

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	52	54.87	75.41	161.1	0.007
CNDF	S	53	12.37	75.41	161.1	0.570
CET2	P	52	56.54	103.53	18.9	0.392
CET2	S	53	14.87	103.53	18.9	0.844

30 131212 1851 26.8 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 15.93 Prof: 3.4 Km
 ± 0.50 km ± 1.21 km ± 1.6 km
 RMS: 0.28s GAP: 172.4° NR: 9

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	51	28.43	5.46	54.0	0.093
MMN	S	51	29.44	5.46	54.0	0.002
CET2	P	51	33.62	36.99	178.1	-0.346
CET2	S	51	39.30	36.99	178.1	0.116

31 131213 0113 31.3 - Bacino di Gioia
 Lat: 38.31 Lon: 15.48 Prof: 130.9 Km
 ± 1.98 km ± 2.50 km ± 4.1 km
 RMS: 0.49s GAP: 87.2° NR: 26

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	13	51.09	47.73	136.8	0.549
CNDF	S	14	4.74	47.73	136.8	0.128
VBL2	P	13	51.68	67.59	54.2	-0.166
CET2	P	13	57.73	140.85	17.2	0.809
CET2	S	14	16.40	140.85	17.2	0.737

32 131213 0551 18.3 - Cilento
 Lat: 40.57 Lon: 13.45 Prof: 0.0 Km
 ± 2.79 km ± 4.16 km ± 3.0 km
 RMS: 0.67s GAP: 235.4° NR: 14

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	51	53.14	242.92	119.6	-0.038
MMN	P	51	53.25	228.79	110.4	-0.073

33 131213 1815 41.4 - Bacino di Gioia
 Lat: 38.46 Lon: 15.52 Prof: 135.0 Km
 ± 2.15 km ± 4.36 km ± 3.9 km
 RMS: 0.47s GAP: 161.8° NR: 18

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	16	1.68	58.75	151.0	0.143
CNDF	S	16	16.60	58.75	151.0	0.357
CET2	P	16	6.49	123.77	17.7	0.785
CET2	S	16	24.16	123.77	17.7	0.697

34 131213 2350 25.1 - Marchesato
 Lat: 39.21 Lon: 16.98 Prof: 26.4 Km
 ± 0.93 km ± 1.34 km ± 1.7 km
 RMS: 0.26s GAP: 237.1° NR: 10

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	50	30.16	7.97	355.3	0.014
LADO	S	50	33.50	7.97	355.3	-0.264

35 131214 0003 05.0 - Marchesato
 Lat: 39.19 Lon: 16.98 Prof: 26.1 Km
 ± 1.07 km ± 1.41 km ± 2.0 km
 RMS: 0.31s GAP: 238.6° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	03	10.10	9.48	355.9	0.035
LADO	S	03	13.51	9.48	355.9	-0.206
CUP2	P	03	14.17	43.00	298.1	0.102
CUP2	S	03	21.15	43.00	298.1	0.502

36 131214 1013 34.4 - Marchesato
 Lat: 39.21 Lon: 16.94 Prof: 23.4 Km
 ± 0.61 km ± 0.85 km ± 1.2 km
 RMS: 0.19s GAP: 207.7° NR: 10

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	13	38.84	7.86	20.0	-0.136
LADO	S	13	42.27	7.86	20.0	-0.007

37 131214 1457 38.4 - Marchesato
 Lat: 39.21 Lon: 16.94 Prof: 23.4 Km
 ± 1.80 km ± 2.19 km ± 3.8 km
 RMS: 0.58s GAP: 208.5° NR: 14

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	57	42.70	8.43	19.7	-0.297
LADO	S	57	46.19	8.43	19.7	-0.134
CUP2	P	57	46.73	39.18	298.6	-0.015
CUP2	S	57	53.47	39.18	298.6	0.653

38 131214 1944 18.0 - M. Nebrodi-Madonie
 Lat: 37.72 Lon: 14.79 Prof: 20.9 Km
 ± 0.73 km ± 1.08 km ± 4.0 km
 RMS: 0.69s GAP: 70.7° NR: 42

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	44	36.69	98.10	72.4	0.973
CNDF	S	44	49.05	98.10	72.4	0.398

39 131214 2115 40.3 - M. Nebrodi-Madonie
 Lat: 37.72 Lon: 14.75 Prof: 23.6 Km
 ± 0.62 km ± 0.88 km ± 3.1 km
 RMS: 0.53s GAP: 65.1° NR: 40

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	15	58.78	101.40	73.2	0.499
CNDF	S	16	12.31	101.40	73.2	0.879
CET2	P	16	13.18	225.27	28.1	0.393
CET2	S	16	36.83	225.27	28.1	0.273

40 131214 2149 05.0 - M. Nebrodi-Madonie
 Lat: 37.73 Lon: 14.77 Prof: 24.3 Km
 ± 0.58 km ± 0.78 km ± 3.0 km
 RMS: 0.52s GAP: 44.0° NR: 49

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	49	23.20	100.00	73.3	0.507
CNDF	S	49	35.39	100.00	73.3	-0.259
VBL2	P	49	30.03	156.65	48.8	-0.481
VBL2	S	49	49.55	156.65	48.8	0.366
CET2	P	49	37.88	224.12	27.9	0.634
CET2	S	50	1.80	224.12	27.9	0.949
SCOI	P	49	38.04	215.66	37.3	-0.029
CUP2	P	49	40.73	239.64	40.6	-0.067
CUP2	S	50	7.52	239.64	40.6	0.520
LADO	P	49	45.64	258.08	48.5	0.000

41 131215 0357 32.8 - Sicilia Centro-
Meridionale

Lat: 36.71 Lon: 14.95 Prof: 5.8 Km
± 1.21 km ± 1.19 km ± 2.2 km
RMS: 0.48s GAP: 219.5° NR: 35

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	58	.51	163.59	29.8	0.100
CNDF	S	58	20.09	163.59	29.8	-0.501
VBL2	P	58	11.39	239.79	25.5	0.630
VBL2	S	58	38.20	239.79	25.5	-0.317
CSC2	P	58	19.32	307.26	22.3	0.000
CSC2	S	58	51.80	307.26	22.3	0.000
SCOI	P	58	19.44	307.52	22.2	0.000
SCOI	S	58	51.96	307.52	22.2	0.000
CET2	P	58	21.21	324.16	16.2	0.000
CET2	S	58	55.05	324.16	16.2	0.000
CUP2	P	58	22.31	327.31	25.6	0.000
CUP2	S	58	58.11	327.31	25.6	0.000
LADO	P	58	22.75	335.81	32.1	0.000
LADO	S	59	-.32	335.81	32.1	0.000
MMN	P	58	26.69	363.74	14.9	0.000
MMN	S	59	5.61	363.74	14.9	0.000

42 131215 0839 12.0 - Marchesato

Lat: 39.21 Lon: 16.97 Prof: 25.5 Km
± 0.97 km ± 1.02 km ± 0.6 km
RMS: 0.09s GAP: 225.5° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	39	16.76	7.45	4.7	-0.075
LADO	S	39	20.43	7.45	4.7	0.087