



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

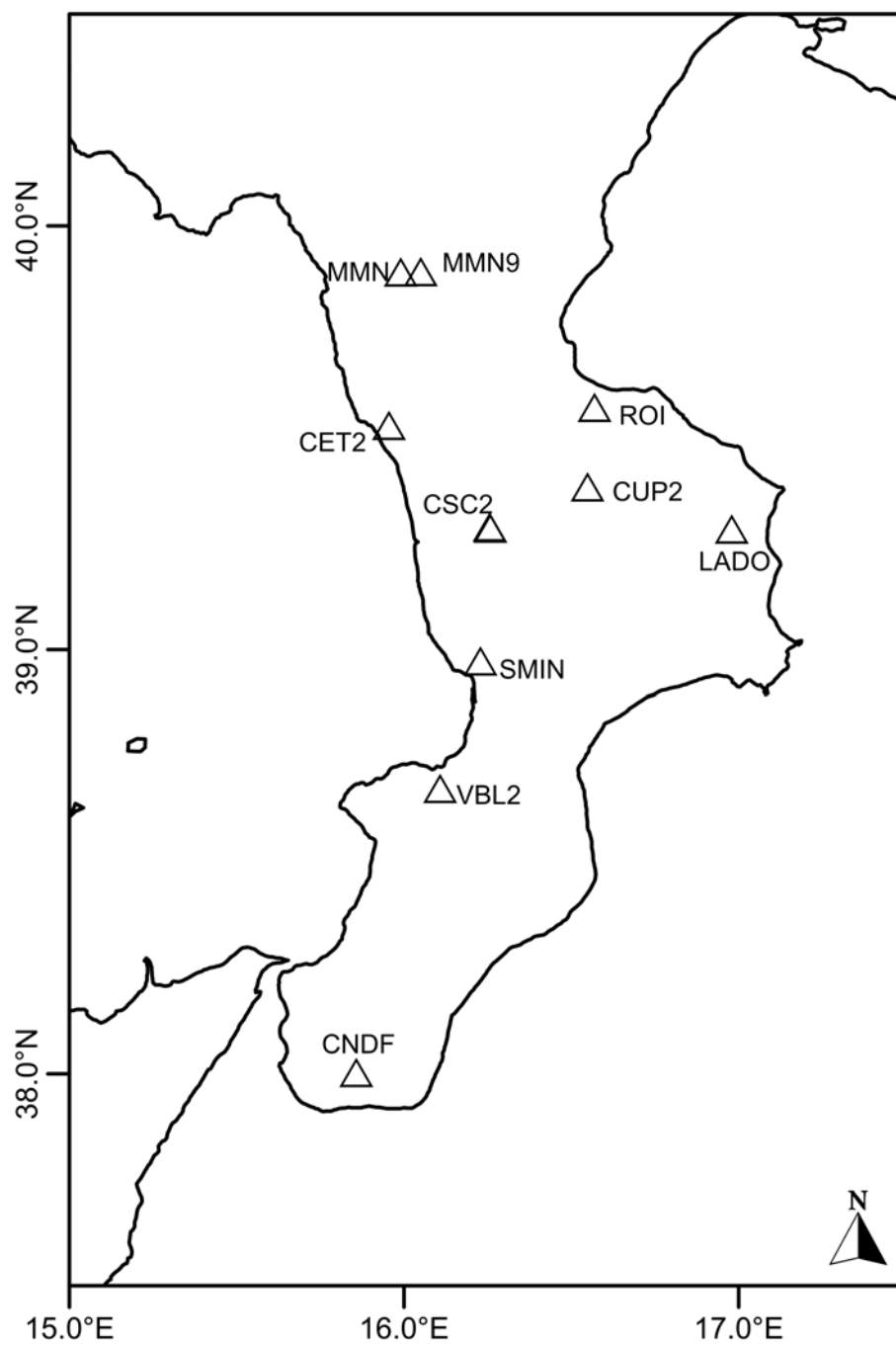
E

DELLE AREE CIRCOSTANTI

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

Periodo 01-15 Febbraio 2014

Distribuzione delle stazioni della Rete Sismica UniCal – Pon MASSIMO



Toponomastica delle aree epicentrali

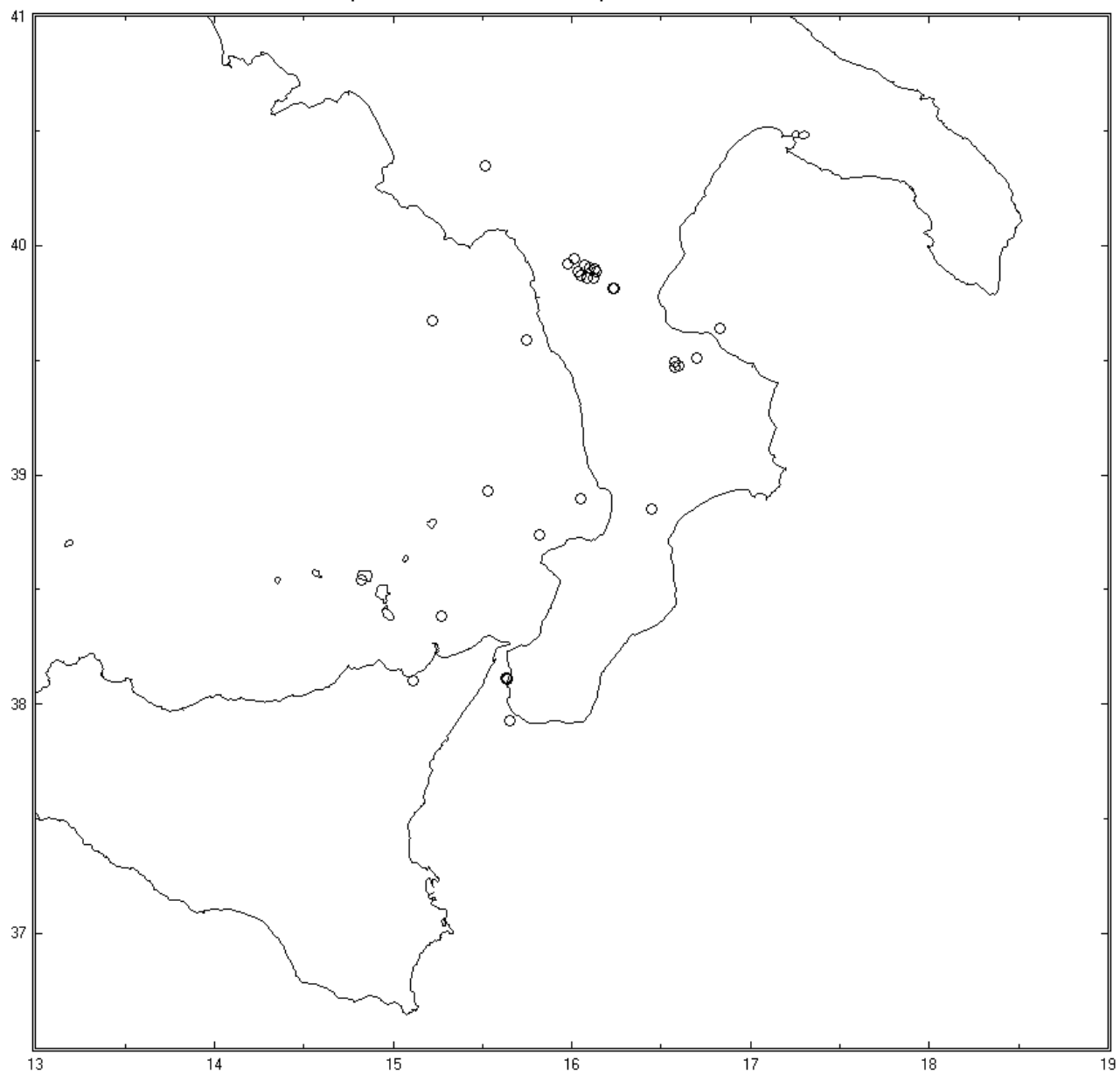


1 Murge	19 Piana di Sibari	37 Offshore Punta Stilo	55 Milazzo
2 Penisola Salentina	20 Valle dell'Esaro	38 Punta Stilo	56 Monti Peloritani
3 Piana del Bradano e del Basento	21 Catena del Pollino	39 Serre centro-settentrionali	57 Stretto di Messina
4 Golfo di Taranto	22 Marate - Rotonda	40 Valle del Mesima	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
140203	0048	3.4	38.1028	15.1131	13.6	2.4	0.86	0.54	2.52	27	76	0.44	0.09
140204	0551	10.9	38.5444	14.8241	3.9	2.5	0.90	0.90	2.15	26	103	0.48	0.15
140204	0910	28.2	37.9292	15.6497	38.6	1.9	1.18	0.91	3.17	20	126	0.41	0.11
140205	0037	27.4	39.8577	16.0876	6.1	1.4	0.47	0.87	1.20	10	171	0.27	0.11
140205	1621	3.3	38.7391	15.8187	170.9	2.3	2.74	4.67	4.52	20	142	0.54	0.13
140205	2016	16.6	40.3464	15.5171	40.1	1.6	1.99	3.09	2.89	11	143	0.37	0.12
140206	0148	0.0	38.1147	15.6388	11.9	2.0	0.66	0.43	2.23	29	87	0.38	0.07
140206	0219	45.9	39.8168	16.2351	3.5	1.6	0.69	0.55	1.54	10	103	0.34	0.11
140206	0240	38.8	39.6411	16.8291	23.3	1.9	0.57	1.11	1.91	24	184	0.33	0.14
140208	0421	2.1	39.8141	16.2295	0.0	1.6	0.45	0.49	1.65	20	70	0.37	0.08
140208	0646	58.4	38.8991	16.0498	37.0	2.0	1.00	1.70	3.31	25	135	0.42	0.11
140208	0825	55.9	38.9295	15.5282	166.9	2.2	3.06	6.04	3.25	18	228	0.39	0.31
140208	1316	54.6	39.9019	16.0979	6.0	1.8	0.79	0.64	1.55	11	78	0.34	0.10
140208	1909	45.9	38.1115	15.6331	10.2	2.2	0.56	0.30	1.61	32	124	0.28	0.06
140208	2356	5.7	38.1132	15.6356	10.0	1.7	0.46	0.34	1.68	27	88	0.29	0.06
140209	0006	43.8	38.1059	15.6414	15.8	2.4	0.60	0.44	2.40	41	54	0.41	0.07
140209	0201	8.7	38.1070	15.6361	12.6	2.0	0.55	0.38	2.10	36	54	0.36	0.06
140209	0657	1.4	38.1135	15.6351	14.5	2.4	0.51	0.35	1.56	35	55	0.27	0.05
140209	0722	39.0	38.1121	15.6310	12.0	1.3	0.62	0.39	1.97	28	102	0.34	0.07
140209	0802	52.4	38.1151	15.6378	12.9	2.2	0.58	0.37	2.17	38	60	0.37	0.06
140209	2304	41.3	39.9165	16.0719	7.6	1.5	0.92	0.67	1.27	8	168	0.28	0.14
140210	0028	41.2	39.6727	15.2199	0.0	1.9	0.90	1.28	2.07	25	239	0.46	0.24
140210	0207	27.2	39.8690	16.0491	7.2	1.8	0.76	0.83	2.04	16	125	0.35	0.10
140210	0216	37.0	39.8874	16.0376	7.6	2.0	0.63	0.72	2.32	28	107	0.40	0.08
140211	0229	3.8	39.8890	16.1341	0.6	1.5	0.75	0.57	1.66	12	99	0.37	0.13
140211	2226	6.2	39.4702	16.5738	32.7	1.9	1.15	1.19	2.74	19	87	0.42	0.12
140211	2349	10.0	39.4948	16.5778	34.3	2.1	1.02	1.45	3.00	21	97	0.46	0.13
140212	0018	32.3	39.9238	15.9738	5.5	1.4	1.01	1.30	2.08	13	135	0.36	0.10
140212	0057	16.8	39.4769	16.5958	29.6	2.4	0.76	1.03	3.05	33	99	0.47	0.11
140212	0523	50.9	38.8502	16.4426	12.7	1.9	0.68	0.98	2.11	13	134	0.36	0.11
140212	1838	54.3	39.5102	16.6996	31.7	2.2	1.23	1.81	3.73	23	140	0.57	0.21
140212	1928	46.8	39.8994	16.1277	5.3	1.2	0.73	0.38	0.99	8	169	0.22	0.09
140212	2349	54.8	39.8593	16.1194	3.8	1.8	0.72	0.63	1.87	15	114	0.42	0.11
140213	0519	45.0	39.5879	15.7460	107.9	2.2	1.87	4.18	4.18	23	212	0.52	0.25
140213	1130	44.4	38.3843	15.2702	142.7	4.0	0.98	1.18	3.77	93	77	0.45	0.05
140213	2302	47.7	39.9445	16.0145	6.2	1.4	0.80	0.81	1.88	13	87	0.32	0.10

Epicentri localizzati nel periodo di riferimento



BOLLETTINO

16 140209 0006 43.8 - Stretto di Messina
 Lat: 38.10 Lon: 15.64 Prof: 15.8 Km
 ± 0.60 km ± 0.44 km ± 2.4 km
 RMS: 0.41s GAP: 54.5° NR: 41

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	06	58.39	75.06	33.1	0.907
VBL2	S	07	8.14	75.06	33.1	0.652
SMIN	P	07	3.03	108.99	28.2	-0.240
SMIN	S	07	18.33	108.99	28.2	0.818

17 140209 0201 08.6 - Stretto di Messina
 Lat: 38.10 Lon: 15.63 Prof: 12.6 Km
 ± 0.55 km ± 0.38 km ± 2.1 km
 RMS: 0.36s GAP: 54.1° NR: 36

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	01	22.90	75.22	33.5	0.616
VBL2	S	01	32.65	75.22	33.5	0.403

18 140209 0657 01.4 - Stretto di Messina
 Lat: 38.11 Lon: 15.63 Prof: 14.5 Km
 ± 0.51 km ± 0.35 km ± 1.6 km
 RMS: 0.27s GAP: 55.3° NR: 35

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	57	15.47	74.65	33.8	0.512
VBL2	S	57	25.12	74.65	33.8	0.235

19 140209 0722 39.0 - Stretto di Messina
 Lat: 38.11 Lon: 15.63 Prof: 12.0 Km
 ± 0.62 km ± 0.39 km ± 2.0 km
 RMS: 0.34s GAP: 102.4° NR: 28

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	22	53.27	74.98	34.0	0.676
VBL2	S	23	3.27	74.98	34.0	0.751

20 140209 0802 52.4 - Stretto di Messina
 Lat: 38.11 Lon: 15.63 Prof: 12.9 Km
 ± 0.58 km ± 0.37 km ± 2.2 km
 RMS: 0.37s GAP: 60.1° NR: 38

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	03	11.88	108.24	28.6	0.209
SMIN	S	03	26.67	108.24	28.6	0.890

21 140209 2304 41.2 - Maratea - Rotonda
 Lat: 39.91 Lon: 16.07 Prof: 7.6 Km
 ± 0.92 km ± 0.67 km ± 1.3 km
 RMS: 0.28s GAP: 168.0° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	04	43.39	7.51	247.9	-0.265
MMN	S	04	45.79	7.51	247.9	0.385

22 140210 0028 41.2 - Offshore Cilento
 Lat: 39.67 Lon: 15.21 Prof: 0.0 Km
 ± 0.90 km ± 1.28 km ± 2.1 km
 RMS: 0.46s GAP: 239.9° NR: 25

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	28	54.38	70.32	70.3	-0.210
MMN	S	29	4.70	70.32	70.3	0.323
SCOI	P	28	59.17	98.81	115.8	-0.252
SCOI	S	29	13.20	98.81	115.8	0.454
CSC2	P	29	.14	99.06	116.0	0.668
CSC2	S	29	13.08	99.06	116.0	0.249

23 140210 0207 27.1 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.04 Prof: 7.2 Km
 ± 0.76 km ± 0.83 km ± 2.0 km
 RMS: 0.35s GAP: 125.0° NR: 16

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	07	28.99	5.56	295.9	-0.115
MMN	S	07	30.81	5.56	295.9	0.300

24 140210 0216 36.9 - Alto Tirreno Cosentino
 Lat: 39.88 Lon: 16.03 Prof: 7.6 Km
 ± 0.63 km ± 0.72 km ± 2.3 km
 RMS: 0.40s GAP: 107.4° NR: 28

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	16	38.59	4.03	275.5	-0.210
MMN	S	16	40.35	4.03	275.5	0.210
ROI	P	16	47.97	57.49	127.5	0.211
ROI	S	16	56.01	57.49	127.5	0.355
SCOI	P	16	49.62	69.02	164.3	0.254
SCOI	S	16	59.01	69.02	164.3	0.571
CUP2	P	16	49.92	71.08	141.9	0.071
CUP2	S	17	-.04	71.08	141.9	0.684

25 140211 0229 03.8 - Alto Tirreno Cosentino
 Lat: 39.88 Lon: 16.13 Prof: .6 Km
 ± 0.75 km ± 0.57 km ± 1.7 km
 RMS: 0.37s GAP: 99.0° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	29	5.65	7.16	272.7	0.220
MMN9	S	29	7.11	7.16	272.7	0.485
MMN	P	29	6.35	12.27	271.1	-0.193
MMN	S	29	8.63	12.27	271.1	0.077

26 140211 2226 06.2 - Sila Grande
 Lat: 39.47 Lon: 16.57 Prof: 32.7 Km
 ± 1.15 km ± 1.19 km ± 2.7 km
 RMS: 0.42s GAP: 87.4° NR: 19

STN	PHASE	MN	SEC	DIST	AZM	RES
ROI	P	26	11.86	11.28	357.8	-0.568
ROI	S	26	17.85	11.28	357.8	0.865
CUP2	P	26	12.23	9.88	192.7	-0.135
CUP2	S	26	17.48	9.88	192.7	0.603
CSC2	P	26	13.82	34.03	233.0	-0.591
CSC2	S	26	21.25	34.03	233.0	0.827

27 140211 2349 10.0 - Sila Grande
 Lat: 39.49 Lon: 16.57 Prof: 34.3 Km
 ± 1.02 km ± 1.45 km ± 3.0 km
 RMS: 0.46s GAP: 97.9° NR: 21

STN	PHASE	MN	SEC	DIST	AZM	RES
ROI	P	49	16.05	8.58	354.8	-0.343
ROI	S	49	22.00	8.58	354.8	0.959
CUP2	P	49	16.43	12.62	191.5	-0.158
CUP2	S	49	22.33	12.62	191.5	0.944
CSC2	P	49	18.30	35.99	229.9	-0.357
CSC2	S	49	25.77	35.99	229.9	0.811
MMN9	P	49	22.73	63.17	314.2	0.235
MMN9	S	49	30.94	63.17	314.2	-0.672
SMIN	P	49	22.96	65.32	207.4	0.230
SMIN	S	49	32.78	65.32	207.4	0.757

28 140212 0018 32.3 - Maratea - Rotonda
 Lat: 39.92 Lon: 15.97 Prof: 5.5 Km
 ± 1.01 km ± 1.30 km ± 2.1 km
 RMS: 0.36s GAP: 135.8° NR: 13

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	18	33.78	3.92	158.7	-0.079
MMN	S	18	35.49	3.92	158.7	0.522
MMN9	P	18	34.04	7.44	118.6	-0.297
MMN9	S	18	36.39	7.44	118.6	0.594

29 140212 0057 16.7 - Sila Grande
 Lat: 39.47 Lon: 16.59 Prof: 29.6 Km
 ± 0.76 km ± 1.03 km ± 3.0 km
 RMS: 0.47s GAP: 99.4° NR: 33

STN	PHASE	MN	SEC	DIST	AZM	RES
ROI	P	57	22.06	10.78	347.5	-0.450
ROI	S	57	27.43	10.78	347.5	0.707
CUP2	P	57	22.47	11.16	201.4	-0.070
CUP2	S	57	27.33	11.16	201.4	0.556
SCOI	P	57	24.29	35.90	234.4	-0.628
SCOI	S	57	31.48	35.90	234.4	0.586
CSC2	P	57	24.41	35.99	233.9	-0.528

CSC2	S	57	31.86	35.99	233.9	0.931
CET2	P	57	27.15	55.45	275.9	-0.251
CET2	S	57	35.45	55.45	275.9	0.255
SMIN	P	57	28.80	64.33	209.5	-0.291
SMIN	S	57	39.08	64.33	209.5	0.958
MMN9	P	57	29.49	65.66	314.5	0.123
MMN9	S	57	38.89	65.66	314.5	0.291
MMN	P	57	30.19	69.33	311.5	0.285
MMN	S	57	40.19	69.33	311.5	0.660
VBL2	P	57	34.61	98.65	205.3	0.351
VBL2	S	57	47.42	98.65	205.3	0.349

30 140212 0523 50.8 - Stretta di Catanzaro
 Lat: 38.85 Lon: 16.44 Prof: 12.7 Km
 ± 0.68 km ± 0.98 km ± 2.1 km
 RMS: 0.36s GAP: 134.6° NR: 13

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	23	55.84	23.05	306.2	0.055
SMIN	S	24	.26	23.05	306.2	0.884
VBL2	P	23	57.79	35.06	236.0	0.090
VBL2	S	24	1.98	35.06	236.0	-0.711

31 140212 1838 54.3 - Sila Grande
 Lat: 39.51 Lon: 16.69 Prof: 31.7 Km
 ± 1.23 km ± 1.81 km ± 3.7 km
 RMS: 0.57s GAP: 140.4° NR: 23

STN	PHASE	MN	SEC	DIST	AZM	RES
ROI	P	39	.39	13.13	301.2	-0.159
ROI	S	39	5.68	13.13	301.2	0.573
CSC2	P	39	3.77	45.45	236.7	-0.195
CSC2	S	39	11.88	45.45	236.7	0.847
CET2	P	39	6.77	64.10	271.8	0.869
CET2	S	39	14.99	64.10	271.8	0.613
SMIN	P	39	7.76	72.20	214.2	-0.188
SMIN	S	39	18.80	72.20	214.2	0.889
MMN	P	39	9.01	74.05	304.7	0.734

32 140212 1928 46.7 - Alto Tirreno Cosentino
 Lat: 39.89 Lon: 16.12 Prof: 5.3 Km
 ± 0.73 km ± 0.38 km ± 1.0 km
 RMS: 0.22s GAP: 169.5° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	28	49.67	11.75	265.5	-0.043
MMN	S	28	52.10	11.75	265.5	0.226

33 140212 2349 54.7 - Alto Tirreno Cosentino
 Lat: 39.85 Lon: 16.11 Prof: 3.8 Km
 ± 0.72 km ± 0.63 km ± 1.9 km
 RMS: 0.42s GAP: 114.9° NR: 15

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	49	57.67	11.56	287.8	0.140
MMN	S	50	.11	11.56	287.8	0.548
CET2	P	50	2.42	39.32	201.2	-0.537
CET2	S	50	8.41	39.32	201.2	-0.548
ROI	P	50	5.31	50.06	129.5	0.385
ROI	S	50	13.13	50.06	129.5	0.755

34 140213 0519 45.0 - Offshore Scalea -
Diamante
 Lat: 39.58 Lon: 15.74 Prof: 107.9 Km
 ± 1.87 km ± 4.18 km ± 4.2 km
 RMS: 0.52s GAP: 212.6° NR: 23

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	20	.71	19.09	110.4	0.777
CET2	S	20	10.25	19.09	110.4	-0.616
SMIN	P	20	3.48	79.95	148.8	-0.422
SMIN	S	20	16.95	79.95	148.8	-0.789
ROI	P	20	3.63	70.75	91.5	0.470
ROI	S	20	16.25	70.75	91.5	-0.205
CUP2	P	20	4.08	72.65	108.3	0.817
CUP2	S	20	17.11	72.65	108.3	0.477

35 140213 1130 44.4 - Canyon di Stromboli
 Lat: 38.38 Lon: 15.27 Prof: 142.7 Km
 ± 0.98 km ± 1.18 km ± 3.8 km
 RMS: 0.45s GAP: 77.0° NR: 93

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	31	7.03	79.80	66.6	0.026
VBL2	S	31	23.45	79.80	66.6	-0.074
SMIN	P	31	8.55	105.91	52.2	-0.360
SMIN	S	31	26.08	105.91	52.2	-0.746
SCOI	P	31	10.46	132.00	40.7	-0.606
SCOI	S	31	29.64	132.00	40.7	-0.923
CSC2	P	31	10.77	131.83	40.9	-0.290
CSC2	S	31	30.00	131.83	40.9	-0.551
CET2	P	31	11.18	140.22	25.4	0.239
CET2	S	31	31.09	140.22	25.4	0.745
CUP2	P	31	13.90	156.83	45.2	0.582
CUP2	S	31	35.26	156.83	45.2	0.799
MMN	P	31	15.29	178.47	20.8	-0.438
MMN	S	31	39.07	178.47	20.8	0.434
ROI	P	31	15.61	173.34	40.7	0.625
ROI	S	31	38.17	173.34	40.7	0.820

36 140213 2302 47.7 - Maratea - Rotonda
 Lat: 39.94 Lon: 16.01 Prof: 6.2 Km
 ± 0.80 km ± 0.81 km ± 1.9 km
 RMS: 0.32s GAP: 87.3° NR: 13

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	02	49.52	6.30	199.1	-0.066
MMN	S	02	50.73	6.30	199.1	-0.231
MMN9	P	02	49.77	6.59	152.5	0.116
MMN9	S	02	51.32	6.59	152.5	0.236