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**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”**

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**PROGETTO PON01\_02710 MASSIMO**

**AMBITO/SETTORE BENI CULTURALI**

**CUP B21C11000550005**

**UNIVERSITÀ DELLA CALABRIA – DIPARTIMENTO DI FISICA**

## **BOLLETTINO**

**DELLA**

**SISMICITÀ DELLA CALABRIA**

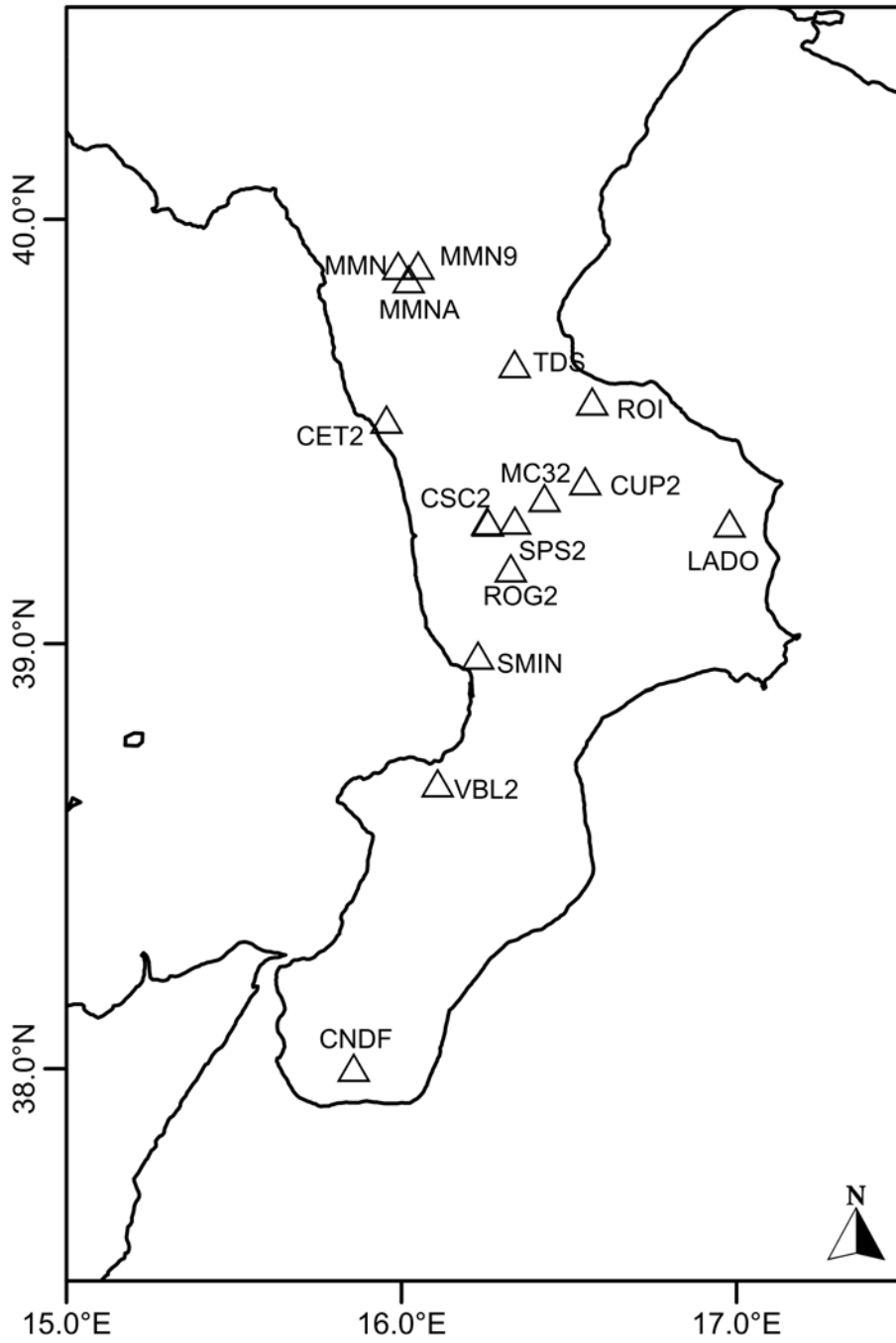
**E**

**DELLE AREE CIRCOSTANTI**

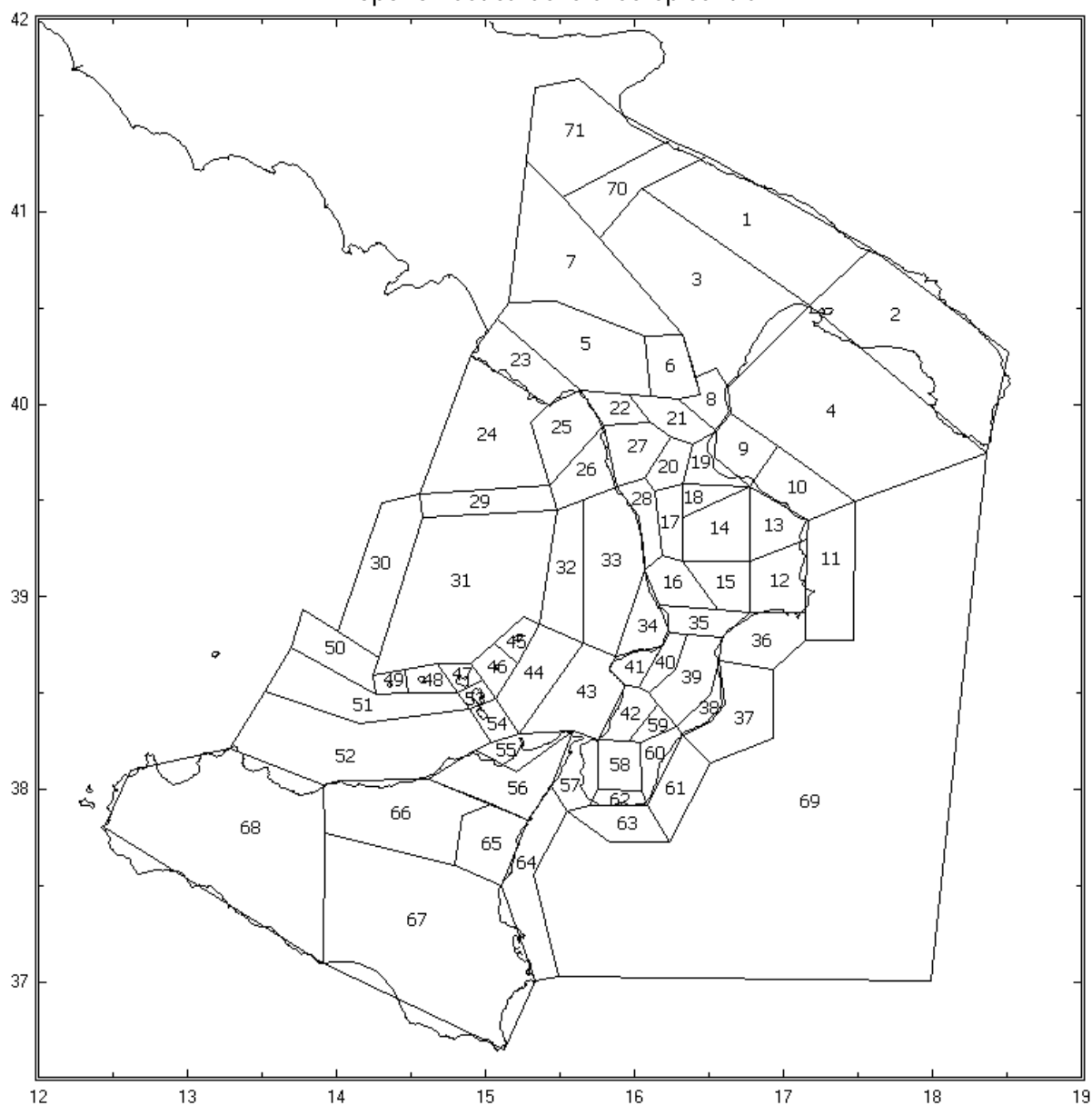
prodotto nell'ambito delle attività dell'O.R. 2.1

Periodo 01-15 Marzo 2015

Distribuzione delle stazioni della Rete Sismica UniCal – Pon MASSIMO



## Toponomastica delle aree epicentrali

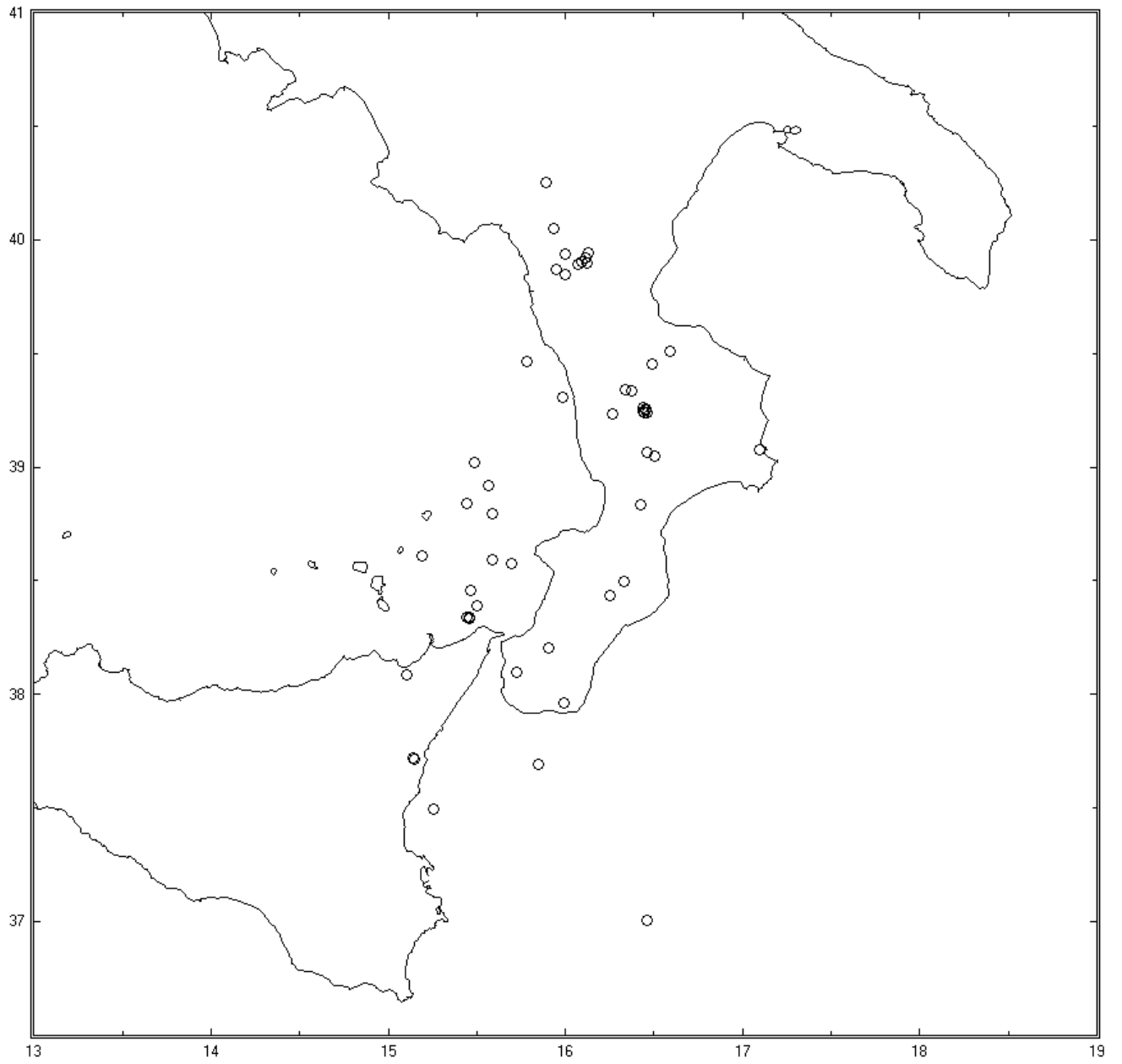


1 Murge	19 Piana di Sibari	37 Offshore Punta Stilo	55 Milazzo
2 Penisola Salentina	20 Valle dell'Esaro	38 Punta Stilo	56 Monti Peloritani
3 Piana del Bradano e del Basento	21 Catena del Pollino	39 Serre centro-settentrionali	57 Stretto di Messina
4 Golfo di Taranto	22 Marate - Rotonda	40 Valle del Mesima	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 <sub>0</sub>	m	δlat	δlon	δH <sub>0</sub>	nr	GAP	sqm	δT <sub>0</sub>
Aammgg	hhmm	ss.s	°	°	km		km	km	km		°	sec	sec
150301	0317	32.3	38.0887	15.1030	15.1	2.1	0.65	0.54	2.23	33	47	0.38	0.07
150301	0748	40.1	38.4549	15.4676	138.1	2.2	1.67	2.22	3.57	34	120	0.43	0.10
150301	2037	39.7	38.3388	15.4406	120.5	2.5	1.61	1.40	3.59	46	94	0.45	0.07
150302	0210	58.4	39.0740	17.0938	28.7		2.73	3.22	3.24	8	284	0.50	0.55
150302	0844	17.1	38.5767	15.6932	54.2	1.8	2.56	1.61	3.28	16	182	0.42	0.16
150302	1844	7.7	39.0468	16.5046	18.7	1.1	0.72	0.71	2.01	16	90	0.35	0.09
150303	0114	9.3	39.2354	16.2666	12.6	1.6	0.35	0.46	1.61	26	115	0.28	0.06
150303	2331	37.9	40.2510	15.8890	7.4	1.6	0.46	0.52	2.03	25	54	0.35	0.07
150304	0342	22.4	39.4636	15.7810	81.5	2.1	1.79	2.87	3.33	20	175	0.42	0.23
150304	1230	55.9	37.7159	15.1488	9.9	2.4	0.66	0.80	2.99	35	73	0.52	0.10
150304	1441	1.7	37.7211	15.1380	10.9	2.3	0.74	0.93	3.23	32	69	0.56	0.10
150304	2113	12.6	38.3892	15.5018	108.8	1.9	2.24	2.32	4.11	20	108	0.51	0.13
150305	0328	49.6	37.9612	15.9951	12.1	2.0	1.25	1.20	2.74	19	104	0.47	0.19
150306	0849	33.7	40.0485	15.9370	17.2	2.0	0.58	0.78	2.08	21	83	0.36	0.09
150307	0555	48.1	39.8967	16.1243	4.6	1.8	1.17	0.63	1.53	8	189	0.34	0.18
150307	0959	3.3	38.9218	15.5646	85.5	2.3	1.23	1.71	3.56	31	166	0.44	0.13
150308	1250	49.6	39.9049	16.0900	0.0	1.2	0.83	0.73	2.16	12	83	0.48	0.15
150308	1706	44.6	38.8337	16.4255	10.8	1.9	0.63	0.95	2.78	28	133	0.48	0.11
150309	1115	56.2	39.3086	15.9834	60.6	2.2	0.58	0.90	3.15	52	93	0.40	0.06
150310	0718	14.1	39.5124	16.5895	27.3	2.0	0.58	0.98	2.61	36	110	0.40	0.10
150310	2359	59.5	38.8398	15.4431	252.1	2.9	1.87	2.48	3.36	57	141	0.39	0.08
150311	0014	57.0	39.9206	16.1139	6.1	1.9	0.59	0.58	2.16	32	42	0.48	0.09
150311	0246	43.3	39.4543	16.4893	16.0	1.3	0.55	0.60	1.61	18	103	0.28	0.07
150311	0814	42.6	38.2035	15.9031	18.5	1.9	0.52	0.53	1.69	22	77	0.29	0.07
150311	0940	31.4	38.4968	16.3283	12.3	2.3	0.63	0.89	2.54	24	91	0.44	0.11
150311	1648	59.5	39.9399	15.9955	7.5		0.44	0.18	0.21	6	297	0.04	0.06
150311	1804	47.9	38.5904	15.5892	148.0	2.4	1.80	2.74	3.58	32	150	0.43	0.10
150311	2249	36.7	37.0035	16.4577	30.8	2.5	1.50	1.65	2.61	32	271	0.33	0.26
150311	2337	42.8	39.9352	16.0022	7.7		1.11	0.40	0.48	6	290	0.08	0.13
150312	1529	4.2	38.4333	16.2480	14.1	3.2	0.53	0.80	2.80	67	117	0.48	0.09
150312	2301	28.5	39.8952	16.0719	5.0		4.34	1.13	0.94	6	211	0.21	0.24
150313	0854	40.4	39.9455	16.1316	1.4	1.6	0.71	0.92	1.91	12	90	0.43	0.14
150313	2150	20.8	39.8469	16.0007	0.0	1.1	0.61	0.69	1.91	20	162	0.42	0.14
150313	2224	7.2	39.8717	15.9475	0.0	2.0	0.49	0.54	1.75	30	144	0.39	0.08
150313	2324	9.6	38.6078	15.1892	241.7	2.8	3.41	3.97	4.20	35	146	0.49	0.16
150314	0343	35.9	39.2527	16.4549	17.9	1.3	0.59	0.59	1.54	16	93	0.27	0.07
150314	0352	37.8	39.3379	16.3726	18.9		2.87	1.77	0.45	6	222	0.08	0.10
150314	0354	48.9	39.2552	16.4548	19.1	1.4	0.48	0.52	1.66	25	71	0.29	0.06
150314	0356	22.4	39.2410	16.4632	15.4	1.0	0.74	0.69	2.24	19	75	0.39	0.09
150314	0440	16.5	39.2475	16.4375	19.7	1.6	0.49	0.73	2.38	35	76	0.41	0.08
150314	0444	20.2	39.2610	16.4422	17.8	1.3	0.73	0.70	1.94	20	101	0.34	0.08
150314	0813	14.3	39.2405	16.4463	17.4		0.29	0.31	0.53	8	108	0.09	0.03
150314	1135	23.1	37.6903	15.8497	33.3	1.6	0.96	1.37	2.46	22	204	0.38	0.15
150314	2049	6.0	39.0185	15.4849	194.7	2.3	1.84	3.06	4.03	42	159	0.49	0.14
150314	2132	55.7	39.3439	16.3375	200.7		4.46	12.45	4.82	10	136	0.58	0.19
150315	0028	46.6	38.0972	15.7239	12.9	1.2	0.56	0.48	1.48	16	101	0.26	0.07
150315	0349	39.0	38.7955	15.5901	88.8	1.9	1.05	1.69	2.81	23	129	0.35	0.11
150315	0629	30.6	39.0627	16.4640	22.8	1.2	0.55	0.60	1.36	18	127	0.23	0.08
150315	0712	21.7	38.3321	15.4580	120.4	2.5	1.39	1.84	4.09	40	89	0.51	0.09
150315	0719	52.2	38.3395	15.4582	122.9	2.4	1.37	1.91	4.18	47	102	0.52	0.09

Epicentri localizzati nel periodo di riferimento



# **BOLLETTINO**

1 150301 0317 32.2 - M. Peloritani  
 Lat: 38.08 Lon: 15.10 Prof: 15.1 Km  
 ± 0.65 km ± 0.54 km ± 2.2 km  
 RMS: 0.38s GAP: 47.6° NR: 33

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	17	44.67	66.88	98.6	0.177
CNDF	S	17	53.69	66.88	98.6	0.265
VBL2	P	17	51.27	109.21	53.9	-0.467
VBL2	S	18	6.16	109.21	53.9	0.187
SMIN	P	17	56.37	138.77	45.3	-0.445
SMIN	S	18	14.50	138.77	45.3	-0.268

2 150301 0748 40.1 - Bacino di Gioia  
 Lat: 38.45 Lon: 15.46 Prof: 138.1 Km  
 ± 1.67 km ± 2.22 km ± 3.6 km  
 RMS: 0.43s GAP: 120.8° NR: 34

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	49	.62	60.86	66.8	-0.236
VBL2	S	49	15.64	60.86	66.8	-0.400
CNDF	P	49	.67	60.64	146.1	0.019
CNDF	S	49	16.56	60.64	146.1	0.876
SMIN	P	49	2.20	87.65	49.2	-0.353
SMIN	S	49	18.17	87.65	49.2	-0.807
CET2	P	49	5.60	126.46	19.8	0.728
CET2	S	49	23.78	126.46	19.8	0.786

3 150301 2037 39.7 - Bacino di Gioia  
 Lat: 38.33 Lon: 15.44 Prof: 120.5 Km  
 ± 1.61 km ± 1.40 km ± 3.6 km  
 RMS: 0.45s GAP: 94.2° NR: 46

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	37	58.37	52.15	135.9	0.375
CNDF	S	38	11.91	52.15	135.9	0.544
VBL2	P	37	59.06	69.07	57.7	-0.196
VBL2	S	38	13.28	69.07	57.7	-0.274
SMIN	P	38	1.33	98.26	44.5	-0.202
SMIN	S	38	16.75	98.26	44.5	-0.741

4 150302 0210 58.3 - Marchesato  
 Lat: 39.07 Lon: 17.09 Prof: 28.7 Km  
 ± 2.73 km ± 3.22 km ± 3.2 km  
 RMS: 0.50s GAP: 284.7° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	11	5.28	25.32	336.5	0.158
LADO	S	11	9.45	25.32	336.5	-0.597
CUP2	P	11	10.06	58.31	305.7	0.295
CUP2	S	11	18.17	58.31	305.7	0.080
SMIN	P	11	12.41	75.79	261.2	0.006
SMIN	S	11	22.02	75.79	261.2	-0.640

5 150302 0844 17.0 - Bacino di Gioia  
 Lat: 38.57 Lon: 15.69 Prof: 54.2 Km  
 ± 2.56 km ± 1.61 km ± 3.3 km  
 RMS: 0.42s GAP: 182.7° NR: 16

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	44	27.19	37.69	73.6	-0.049
VBL2	S	44	34.20	37.69	73.6	-0.473

6 150302 1844 07.7 - Sila Piccola  
 Lat: 39.04 Lon: 16.50 Prof: 18.7 Km  
 ± 0.72 km ± 0.71 km ± 2.0 km  
 RMS: 0.35s GAP: 90.7° NR: 16

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	44	13.85	25.30	251.0	0.408
SMIN	S	44	17.75	25.30	251.0	0.102
SPS2	P	44	14.13	30.67	332.0	-0.095
SPS2	S	44	19.07	30.67	332.0	0.062
LADO	P	44	16.70	48.75	57.0	-0.351
LADO	S	44	24.43	48.75	57.0	0.527

7 150303 0114 09.3 - Valle del Crati  
 Lat: 39.23 Lon: 16.26 Prof: 12.6 Km  
 ± 0.35 km ± 0.46 km ± 1.6 km  
 RMS: 0.28s GAP: 115.1° NR: 26

STN	PHASE	MN	SEC	DIST	AZM	RES
SCOI	P	14	12.21	6.04	351.6	0.247
SCOI	S	14	13.88	6.04	351.6	-0.014
SPS2	P	14	12.35	8.76	45.2	0.082
SPS2	S	14	14.17	8.76	45.2	-0.253
CUP2	P	14	15.43	29.31	55.8	0.144
CUP2	S	14	19.60	29.31	55.8	-0.050
SMIN	P	14	15.45	29.32	186.5	0.259
SMIN	S	14	19.49	29.32	186.5	0.006
CET2	P	14	17.37	42.23	320.5	-0.139
CET2	S	14	23.72	42.23	320.5	0.220
TDS	P	14	18.13	47.46	7.3	-0.017
LADO	P	14	20.79	61.74	84.7	0.193
LADO	S	14	29.11	61.74	84.7	0.261
VBL2	P	14	21.32	63.84	192.5	0.359
VBL2	S	14	28.93	63.84	192.5	-0.548

8 150303 2331 37.9 - Vallo di Diano  
 Lat: 40.25 Lon: 15.88 Prof: 7.4 Km  
 ± 0.46 km ± 0.52 km ± 2.0 km  
 RMS: 0.35s GAP: 54.4° NR: 25

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	31	44.93	40.92	168.0	-0.636
MMN	S	31	52.04	40.92	168.0	0.877

9 150304 0342 22.3 - Bacino di Paola  
 Lat: 39.46 Lon: 15.78 Prof: 81.5 Km  
 ± 1.79 km ± 2.87 km ± 3.3 km  
 RMS: 0.42s GAP: 175.8° NR: 20

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	42	34.64	16.59	64.4	0.577
CET2	S	42	43.51	16.59	64.4	0.890
SPS2	P	42	36.75	51.73	111.8	0.277
SPS2	S	42	46.19	51.73	111.8	-0.603
SMIN	P	42	37.56	66.77	144.8	-0.153
SMIN	S	42	48.64	66.77	144.8	-0.302

10 150304 1230 55.8 - Etna  
 Lat: 37.71 Lon: 15.14 Prof: 9.9 Km  
 ± 0.66 km ± 0.80 km ± 3.0 km  
 RMS: 0.52s GAP: 73.8° NR: 35

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	31	8.85	70.01	63.4	0.331
CNDF	S	31	17.93	70.01	63.4	0.155
CET2	P	31	28.64	213.11	19.7	0.389
CET2	S	31	52.66	213.11	19.7	0.710

11 150304 1441 01.7 - Etna  
 Lat: 37.72 Lon: 15.13 Prof: 10.9 Km  
 ± 0.74 km ± 0.93 km ± 3.2 km  
 RMS: 0.56s GAP: 69.7° NR: 32

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	41	14.77	70.60	64.1	0.289
CNDF	S	41	23.15	70.60	64.1	-0.672
CET2	P	41	34.44	212.88	19.9	0.483
CET2	S	41	58.13	212.88	19.9	0.576

12 150304 2113 12.5 - Bacino di Gioia  
 Lat: 38.38 Lon: 15.50 Prof: 108.8 Km  
 ± 2.24 km ± 2.32 km ± 4.1 km  
 RMS: 0.51s GAP: 108.7° NR: 20

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	13	32.48	90.52	44.5	-0.168
SMIN	S	13	47.30	90.52	44.5	-0.039
CET2	P	13	36.43	132.45	17.6	0.744

13 150305 0328 49.5 - Aspromonte mer.  
 Lat: 37.96 Lon: 15.99 Prof: 12.1 Km  
 ± 1.25 km ± 1.20 km ± 2.7 km  
 RMS: 0.47s GAP: 104.6° NR: 19

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	28	53.12	12.98	291.3	0.237
CNDF	S	28	55.01	12.98	291.3	-0.306
SMIN	P	29	10.67	114.13	10.3	0.863
SMIN	S	29	24.78	114.13	10.3	0.151

14 150306 0849 33.7 - Maratea - Rotonda  
 Lat: 40.04 Lon: 15.93 Prof: 17.2 Km  
 ± 0.58 km ± 0.78 km ± 2.1 km  
 RMS: 0.36s GAP: 83.2° NR: 21

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	49	38.57	18.09	165.5	0.172
MMN	S	49	41.80	18.09	165.5	-0.009
MMN9	P	49	39.02	19.90	151.0	0.357
MMN9	S	49	42.84	19.90	151.0	-0.572
CET2	P	49	44.69	57.72	178.7	-0.020
CET2	S	49	52.18	57.72	178.7	-0.561

15 150307 0555 48.0 - Alto Tirreno Cosentino  
 Lat: 39.89 Lon: 16.12 Prof: 4.6 Km  
 ± 1.17 km ± 0.63 km ± 1.5 km  
 RMS: 0.34s GAP: 189.6° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	55	51.01	11.44	266.9	0.114
MMN	S	55	52.68	11.44	266.9	-0.281
CET2	P	55	56.84	43.36	199.7	-0.026
CET2	S	56	2.67	43.36	199.7	-0.631

16 150307 0959 03.3 - Scarpata di Paola  
 Lat: 38.92 Lon: 15.56 Prof: 85.5 Km  
 ± 1.23 km ± 1.71 km ± 3.6 km  
 RMS: 0.44s GAP: 166.2° NR: 31

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	59	17.92	57.80	84.6	-0.305
SMIN	S	59	28.67	57.80	84.6	-0.465
CET2	P	59	19.80	75.33	26.9	0.764
CET2	S	59	31.43	75.33	26.9	0.889
SPS2	P	59	19.90	78.51	58.7	-0.127
MC32	P	59	20.45	88.06	58.0	-0.441
MC32	S	59	33.94	88.06	58.0	0.185
TDS	P	59	22.61	105.59	39.3	-0.129
TDS	S	59	36.82	105.59	39.3	-0.132

17 150308 1250 49.6 - Alto Tirreno Cosentino  
 Lat: 39.90 Lon: 16.09 Prof: 0.0 Km  
 ± 0.83 km ± 0.73 km ± 2.2 km  
 RMS: 0.48s GAP: 83.7° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	50	51.74	8.64	259.7	0.169
MMN	S	50	53.75	8.64	259.7	0.767

18 150308 1706 44.5 - Stretta di Catanzaro  
 Lat: 38.83 Lon: 16.42 Prof: 10.8 Km  
 ± 0.63 km ± 0.95 km ± 2.8 km  
 RMS: 0.48s GAP: 133.1° NR: 28

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	06	49.54	23.06	312.0	0.193
SMIN	S	06	53.03	23.06	312.0	0.185
VBL2	P	06	51.47	32.82	237.2	0.538
VBL2	S	06	56.05	32.82	237.2	0.459
SPS2	P	06	53.20	51.32	351.5	-0.856
SPS2	S	07	1.44	51.32	351.5	0.438
CUP2	P	06	55.35	61.94	9.7	-0.603
CUP2	S	07	4.78	61.94	9.7	0.491
ROI	P	07	-.14	82.87	8.4	0.062
ROI	S	07	11.56	82.87	8.4	0.615
CET2	P	07	.53	87.23	332.2	0.123
CET2	S	07	11.68	87.23	332.2	-0.322

19 150309 1115 56.2 - Bacino di Paola  
 Lat: 39.30 Lon: 15.98 Prof: 60.6 Km  
 ± 0.58 km ± 0.90 km ± 3.2 km  
 RMS: 0.40s GAP: 93.6° NR: 52

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	16	6.34	30.71	93.7	-0.206
SPS2	S	16	13.90	30.71	93.7	-0.217
CET2	P	16	6.41	24.57	354.4	0.672
CET2	S	16	13.21	24.57	354.4	0.495
MC32	P	16	7.14	38.44	84.2	-0.009
MC32	S	16	14.68	38.44	84.2	-0.481

SMIN	P	16	7.24	42.85	150.5	-0.233
SMIN	S	16	15.18	42.85	150.5	-0.538
TDS	P	16	7.96	49.44	38.1	-0.029
TDS	S	16	16.64	49.44	38.1	0.023
CUP2	P	16	8.66	49.39	80.3	0.616
CUP2	S	16	17.56	49.39	80.3	0.848
ROI	P	16	9.22	58.29	59.9	0.283
ROI	S	16	19.18	58.29	59.9	0.925
MMN	P	16	9.63	64.65	.7	0.006
MMN	S	16	18.87	64.65	.7	-0.577
VBL2	P	16	10.18	71.29	171.4	-0.094
VBL2	S	16	20.50	71.29	171.4	-0.072

20 150310 0718 14.0 - Sila Greca  
 Lat: 39.51 Lon: 16.58 Prof: 27.3 Km  
 ± 0.58 km ± 0.98 km ± 2.6 km  
 RMS: 0.40s GAP: 110.1° NR: 36

STN	PHASE	MN	SEC	DIST	AZM	RES
ROI	P	18	19.31	6.81	345.0	-0.001
ROI	S	18	22.94	6.81	345.0	-0.209
CUP2	P	18	19.80	14.75	193.7	-0.007
CUP2	S	18	24.63	14.75	193.7	0.621
MC32	P	18	20.53	23.36	216.6	-0.142
MC32	S	18	25.57	23.36	216.6	0.062
TDS	P	18	20.75	27.12	306.8	-0.158
TDS	S	18	26.28	27.12	306.8	0.364
SPS2	P	18	22.61	32.71	221.2	0.922
SPS2	S	18	26.96	32.71	221.2	-0.306
ROG2	P	18	23.16	43.49	211.3	-0.034
ROG2	S	18	29.13	43.49	211.3	-0.745
CET2	P	18	24.49	54.62	271.9	-0.010
CET2	S	18	32.48	54.62	271.9	0.342
MMNA	P	18	25.01	53.31	316.2	-0.024
SMIN	P	18	27.54	67.52	207.4	0.682
SMIN	S	18	36.25	67.52	207.4	0.032

21 150310 2359 59.5 - Scarpata di Paola  
 Lat: 38.83 Lon: 15.44 Prof: 252.1 Km  
 ± 1.87 km ± 2.48 km ± 3.4 km  
 RMS: 0.39s GAP: 141.1° NR: 57

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	00	32.93	60.65	108.0	-0.300
VBL2	S	00	57.94	60.65	108.0	0.018
SMIN	P	00	33.00	69.68	78.0	-0.492
SMIN	S	00	57.50	69.68	78.0	-0.873
CET2	P	00	33.75	88.33	30.4	0.258
CET2	S	00	58.67	88.33	30.4	0.300
SPS2	P	00	34.07	92.28	57.3	-0.314
SPS2	S	01	-.43	92.28	57.3	-0.355
CNDF	P	00	34.65	99.66	159.1	0.007
CNDF	S	01	.91	99.66	159.1	0.543
MC32	P	00	34.82	101.85	56.9	0.004
MC32	S	01	.85	101.85	56.9	0.186
TDS	P	00	35.71	119.31	40.5	-0.010
CUP2	P	00	36.10	113.03	57.9	0.760
CUP2	S	01	2.49	113.03	57.9	0.916
ROI	P	00	36.27	126.74	50.3	0.220
ROI	S	01	2.46	126.74	50.3	-0.347

22 150311 0014 57.0 - Catena del Pollino  
 Lat: 39.92 Lon: 16.11 Prof: 6.1 Km  
 ± 0.59 km ± 0.58 km ± 2.2 km  
 RMS: 0.48s GAP: 42.1° NR: 32

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	14	59.28	6.30	239.7	0.135
MMN9	S	15	.76	6.30	239.7	0.065
MMNA	P	15	-.42	7.83	149.8	0.246
MMNA	S	15	1.20	7.83	149.8	0.195
MMN	P	15	-.10	11.05	252.7	-0.043
MMN	S	15	2.17	11.05	252.7	0.110
TDS	P	15	4.39	34.74	146.6	0.559
TDS	S	15	8.76	34.74	146.6	-0.050
CET2	P	15	5.49	45.59	197.6	-0.520
CET2	S	15	11.76	45.59	197.6	-0.825
ROI	P	15	8.34	54.97	134.7	0.606
ROI	S	15	14.89	54.97	134.7	-0.680
MC32	P	15	10.41	69.42	157.2	0.471





**34** 150313 2224 07.2 - Alto Tirreno Cosentino  
 Lat: 39.87 Lon: 15.94 Prof: 0.0 Km  
 ± 0.49 km ± 0.54 km ± 1.7 km  
 RMS: 0.39s GAP: 144.6° NR: 30

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	24	8.36	4.25	60.3	0.189
MMN	S	24	8.83	4.25	60.3	-0.048
MMN9	P	24	9.59	9.08	75.9	0.359
MMN9	S	24	11.02	9.08	75.9	0.302
MMNA	P	24	11.14	18.25	94.3	-0.121
MMNA	S	24	14.03	18.25	94.3	-0.200
TDS	P	24	14.99	40.88	125.3	-0.139
TDS	S	24	21.25	40.88	125.3	0.315
CUP2	P	24	21.54	74.82	136.4	0.419
CUP2	S	24	31.95	74.82	136.4	0.639
SMIN	P	24	25.34	102.67	166.5	-0.488
SMIN	S	24	40.19	102.67	166.5	0.720

**35** 150313 2324 09.5 - Canyon di Stromboli  
 Lat: 38.60 Lon: 15.18 Prof: 241.7 Km  
 ± 3.41 km ± 3.97 km ± 4.2 km  
 RMS: 0.49s GAP: 146.4° NR: 35

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	24	42.60	80.32	85.1	-0.271
VBL2	S	25	6.39	80.32	85.1	-0.841
SMIN	P	24	43.18	98.95	66.2	-0.492
SMIN	S	25	8.89	98.95	66.2	0.275
CNDF	P	24	43.37	88.98	139.4	0.242
CNDF	S	25	7.73	88.98	139.4	0.057

**36** 150314 0343 35.8 - Sila Grande  
 Lat: 39.25 Lon: 16.45 Prof: 17.9 Km  
 ± 0.59 km ± 0.59 km ± 1.5 km  
 RMS: 0.27s GAP: 93.6° NR: 16

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	43	40.02	10.42	346.5	0.126
MC32	S	43	42.21	10.42	346.5	-0.626
ROG2	P	43	40.12	13.85	233.4	0.042
ROG2	S	43	43.12	13.85	233.4	-0.034
CUP2	P	43	40.76	16.59	28.8	0.256
CUP2	S	43	44.21	16.59	28.8	0.318

**37** 150314 0352 37.7 - Sila Grande  
 Lat: 39.33 Lon: 16.37 Prof: 18.9 Km  
 ± 2.87 km ± 1.77 km ± 0.5 km  
 RMS: 0.08s GAP: 222.2° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	52	41.47	5.97	209.2	0.001
SPS2	S	52	44.18	5.97	209.2	-0.002
MC32	P	52	41.64	4.72	81.7	0.064
MC32	S	52	44.30	4.72	81.7	-0.067
CUP2	P	52	42.38	15.94	71.4	-0.066
CUP2	S	52	45.95	15.94	71.4	0.075

**38** 150314 0354 48.9 - Sila Grande  
 Lat: 39.25 Lon: 16.45 Prof: 19.1 Km  
 ± 0.48 km ± 0.52 km ± 1.7 km  
 RMS: 0.29s GAP: 71.9° NR: 25

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	54	53.11	10.77	291.6	0.121
SPS2	S	54	55.72	10.77	291.6	-0.251
MC32	P	54	53.25	10.14	346.1	0.156
MC32	S	54	55.81	10.14	346.1	-0.343
ROG2	P	54	53.35	14.02	232.4	0.050
ROG2	S	54	56.18	14.02	232.4	-0.330
SCOI	P	54	53.78	17.52	282.4	0.147
SCOI	S	54	57.00	17.52	282.4	-0.086
CUP2	P	54	53.95	16.35	29.3	0.279
CUP2	S	54	57.38	16.35	29.3	0.228
SMIN	P	54	56.49	36.96	212.0	0.058
SMIN	S	55	1.68	36.96	212.0	-0.254

**39** 150314 0356 22.4 - Sila Grande  
 Lat: 39.24 Lon: 16.46 Prof: 15.4 Km  
 ± 0.74 km ± 0.69 km ± 2.2 km  
 RMS: 0.39s GAP: 75.0° NR: 19

STN	PHASE	MN	SEC	DIST	AZM	RES
ROG2	P	56	26.32	13.74	239.5	0.047
MC32	P	56	26.42	11.85	344.5	0.213
MC32	S	56	28.38	11.85	344.5	-0.607
SCOI	P	56	26.78	18.63	286.6	-0.059
SCOI	S	56	29.91	18.63	286.6	-0.172
CUP2	P	56	26.98	17.42	24.7	0.137
CUP2	S	56	30.67	17.42	24.7	0.582
SMIN	P	56	29.97	36.04	214.3	0.442
SMIN	S	56	34.75	36.04	214.3	0.011

**40** 150314 0440 16.5 - Sila Grande  
 Lat: 39.24 Lon: 16.43 Prof: 19.7 Km  
 ± 0.49 km ± 0.73 km ± 2.4 km  
 RMS: 0.41s GAP: 76.3° NR: 35

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	40	20.80	9.79	299.5	0.208
SPS2	S	40	23.13	9.79	299.5	-0.452
MC32	P	40	20.92	10.75	355.0	0.093
MC32	S	40	23.09	10.75	355.0	-0.898
ROG2	P	40	20.99	12.31	231.4	0.180
ROG2	S	40	23.94	12.31	231.4	-0.019
SCOI	P	40	21.51	16.29	286.5	0.351
SCOI	S	40	24.77	16.29	286.5	0.206
CUP2	P	40	21.66	17.85	32.1	0.147
CUP2	S	40	25.21	17.85	32.1	0.034
SMIN	P	40	24.08	35.44	210.6	0.240
SMIN	S	40	29.02	35.44	210.6	-0.186
TDS	P	40	25.12	46.54	349.2	-0.412
TDS	S	40	33.12	46.54	349.2	0.982
VBL2	P	40	29.63	69.79	204.1	0.232
VBL2	S	40	38.64	69.79	204.1	-0.193
MMNA	P	40	29.92	72.02	340.6	-0.330
MMNA	S	40	41.20	72.02	340.6	0.890

**41** 150314 0444 20.1 - Sila Grande  
 Lat: 39.26 Lon: 16.44 Prof: 17.8 Km  
 ± 0.73 km ± 0.70 km ± 1.9 km  
 RMS: 0.34s GAP: 101.9° NR: 20

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	44	24.13	9.53	290.4	0.173
SPS2	S	44	26.56	9.53	290.4	-0.159
MC32	P	44	24.25	9.31	351.7	0.153
MC32	S	44	26.29	9.31	351.7	-0.672
ROG2	P	44	24.29	13.59	227.5	-0.057
ROG2	S	44	27.31	13.59	227.5	-0.084
CUP2	P	44	24.98	16.38	33.7	0.205
CUP2	S	44	28.67	16.38	33.7	0.533
SMIN	P	44	27.80	36.94	210.0	0.196
SMIN	S	44	32.77	36.94	210.0	-0.265
TDS	P	44	28.46	45.15	348.4	-0.408

**42** 150314 0813 14.3 - Sila Grande  
 Lat: 39.24 Lon: 16.44 Prof: 17.4 Km  
 ± 0.29 km ± 0.31 km ± 0.5 km  
 RMS: 0.09s GAP: 108.3° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	13	18.18	10.84	301.0	0.037
SPS2	S	13	20.76	10.84	301.0	-0.186
ROG2	P	13	18.33	12.47	236.3	0.026
ROG2	S	13	21.32	12.47	236.3	0.094
CUP2	P	13	19.04	18.13	28.8	-0.030
CUP2	S	13	22.66	18.13	28.8	0.108

**43** 150314 1135 23.1 - Piana bat. ionica  
 Lat: 37.69 Lon: 15.84 Prof: 33.3 Km  
 ± 0.96 km ± 1.37 km ± 2.5 km  
 RMS: 0.38s GAP: 204.2° NR: 22

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	35	31.87	34.73	1.3	0.391
CNDF	S	35	37.51	34.73	1.3	-0.074

44 150314 2049 06.0 - Scarpata di Paola  
 Lat: 39.01 Lon: 15.48 Prof: 194.7 Km  
 ± 1.84 km ± 3.06 km ± 4.0 km  
 RMS: 0.49s GAP: 159.5° NR: 42

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	49	32.89	64.59	94.7	-0.463
SMIN	S	49	52.78	64.59	94.7	-0.577
CET2	P	49	33.71	69.66	35.9	0.817
CET2	S	49	53.51	69.66	35.9	0.947
TDS	P	49	34.41	102.29	46.1	-0.881
CUP2	P	49	35.78	100.38	66.3	0.654
CUP2	S	49	56.14	100.38	66.3	-0.288
CNDF	P	49	36.10	117.28	164.3	0.014
CNDF	S	49	59.00	117.28	164.3	0.909
ROI	P	49	36.10	111.91	56.8	0.270
ROI	S	49	58.24	111.91	56.8	0.594

45 150314 2132 55.6 - Sila Grande  
 Lat: 39.34 Lon: 16.33 Prof: 200.7 Km  
 ± 4.46 km ± 12.45 km ± 4.8 km  
 RMS: 0.58s GAP: 136.8° NR: 10

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	33	22.20	38.83	302.0	0.011
CET2	S	33	41.68	38.83	302.0	0.067
SMIN	P	33	22.49	42.25	192.9	-0.550
SMIN	S	33	42.88	42.25	192.9	-0.203
ROI	P	33	23.43	32.21	38.1	0.701
ROI	S	33	41.55	32.21	38.1	-0.996
MMNA	P	33	23.71	59.25	345.1	-0.194
MMNA	S	33	45.22	59.25	345.1	0.639

46 150315 0028 46.6 - Stretto di Messina  
 Lat: 38.09 Lon: 15.72 Prof: 12.9 Km  
 ± 0.56 km ± 0.48 km ± 1.5 km  
 RMS: 0.26s GAP: 101.5° NR: 16

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	28	50.68	15.67	132.0	0.230
CNDF	S	28	53.26	15.67	132.0	0.000

47 150315 0349 39.0 - Scarpata di Paola  
 Lat: 38.79 Lon: 15.59 Prof: 88.8 Km  
 ± 1.05 km ± 1.69 km ± 2.8 km  
 RMS: 0.35s GAP: 129.8° NR: 23

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	49	53.71	47.01	106.9	0.199
VBL2	S	50	4.34	47.01	106.9	0.250
SMIN	P	49	54.32	58.77	70.6	-0.052
SMIN	S	50	5.21	58.77	70.6	-0.373
CET2	P	49	56.72	87.29	21.4	0.584
CET2	S	50	9.60	87.29	21.4	0.962
SPS2	P	49	56.74	85.01	49.8	0.080
SPS2	S	50	9.64	85.01	49.8	0.095

48 150315 0629 30.5 - Sila Piccola  
 Lat: 39.06 Lon: 16.46 Prof: 22.8 Km  
 ± 0.55 km ± 0.60 km ± 1.4 km  
 RMS: 0.23s GAP: 127.7° NR: 18

STN	PHASE	MN	SEC	DIST	AZM	RES
ROG2	P	29	36.12	17.53	317.0	0.268
ROG2	S	29	39.67	17.53	317.0	-0.031
MC32	P	29	37.72	31.39	354.0	-0.014
MC32	S	29	42.75	31.39	354.0	-0.214
CUP2	P	29	38.50	36.34	11.4	0.075
CUP2	S	29	44.80	36.34	11.4	0.642
CET2	P	29	42.87	67.88	319.7	-0.059
CET2	S	29	51.90	67.88	319.7	-0.061

49 150315 0712 21.7 - Bacino di Gioia  
 Lat: 38.33 Lon: 15.45 Prof: 120.4 Km  
 ± 1.39 km ± 1.84 km ± 4.1 km  
 RMS: 0.51s GAP: 89.0° NR: 40

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	12	40.45	50.55	136.6	0.583
CNDF	S	12	53.86	50.55	136.6	0.694

VBL2	P	12	41.02	68.21	56.5	-0.140
VBL2	S	12	55.11	68.21	56.5	-0.297
SMIN	P	12	43.15	97.75	43.6	-0.297
SMIN	S	12	58.40	97.75	43.6	-0.969
ROG2	P	12	45.95	120.49	39.0	0.441
ROG2	S	13	1.95	120.49	39.0	-0.988
CET2	P	12	47.15	139.65	18.3	0.758
CET2	S	13	5.10	139.65	18.3	0.629
MMNA	P	12	52.16	180.13	20.0	0.085
MMNA	S	13	13.67	180.13	20.0	-0.641

50 150315 0719 52.2 - Bacino di Gioia  
 Lat: 38.33 Lon: 15.45 Prof: 122.9 Km  
 ± 1.37 km ± 1.91 km ± 4.2 km  
 RMS: 0.52s GAP: 102.2° NR: 47

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	20	11.19	51.14	137.2	0.473
CNDF	S	20	24.60	51.14	137.2	0.353
VBL2	P	20	12.75	67.73	57.1	0.820
VBL2	S	20	25.83	67.73	57.1	-0.518
SMIN	P	20	14.10	97.13	43.9	-0.063
SMIN	S	20	29.23	97.13	43.9	-0.986
ROG2	P	20	16.04	119.83	39.2	-0.147
ROG2	S	20	32.88	119.83	39.2	-0.843
CET2	P	20	17.74	138.86	18.4	0.696
CET2	S	20	35.76	138.86	18.4	0.554
CUP2	P	20	19.70	149.59	39.4	0.747
CUP2	S	20	39.06	149.59	39.4	0.548
MMNA	P	20	22.21	179.35	20.1	-0.463
MMNA	S	20	44.98	179.35	20.1	0.023