



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

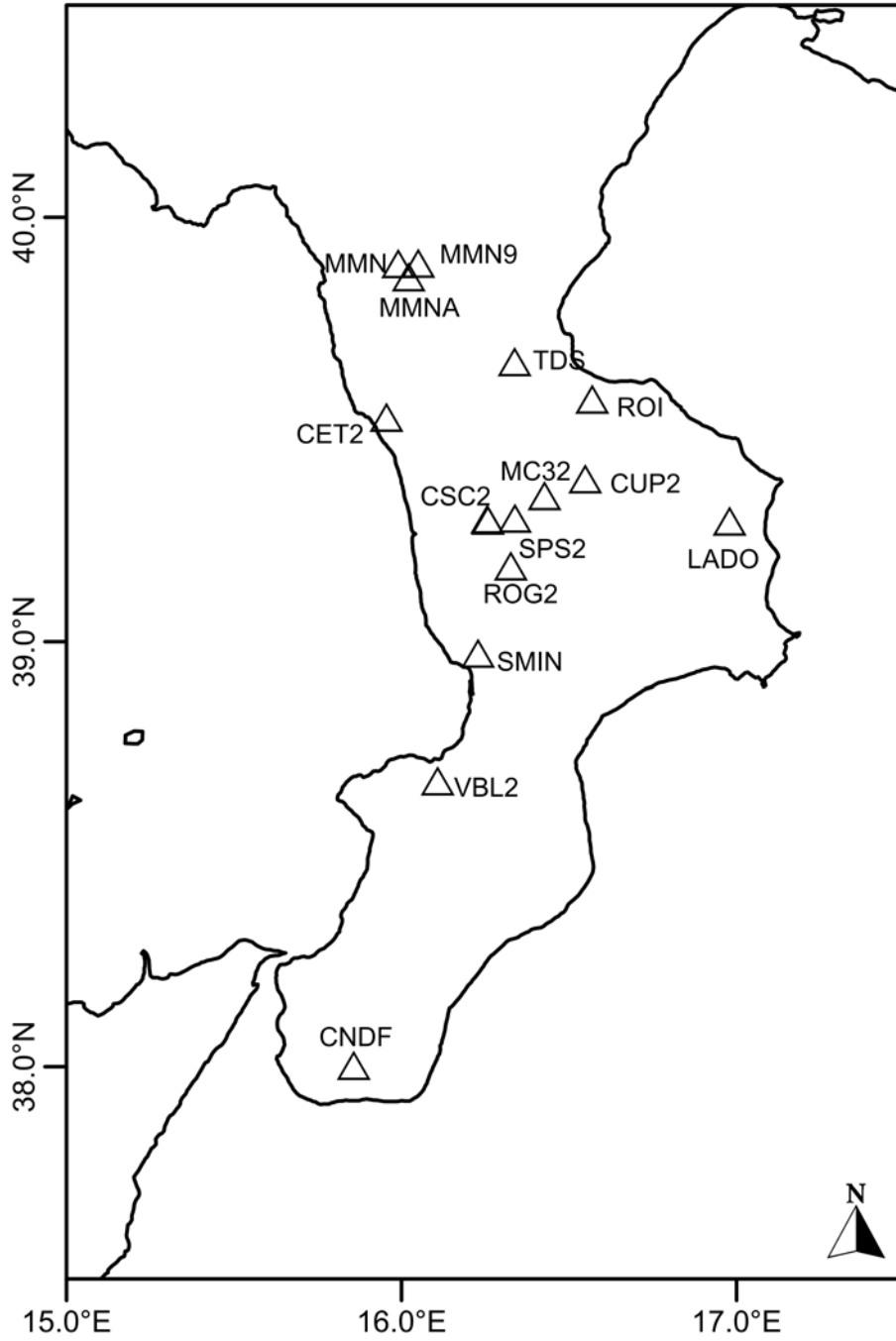
E

DELLE AREE CIRCOSTANTI

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

Periodo 16-31 Marzo 2015

Distribuzione delle stazioni della Rete Sismica UniCal – Pon MASSIMO



Toponomastica delle aree epicentrali



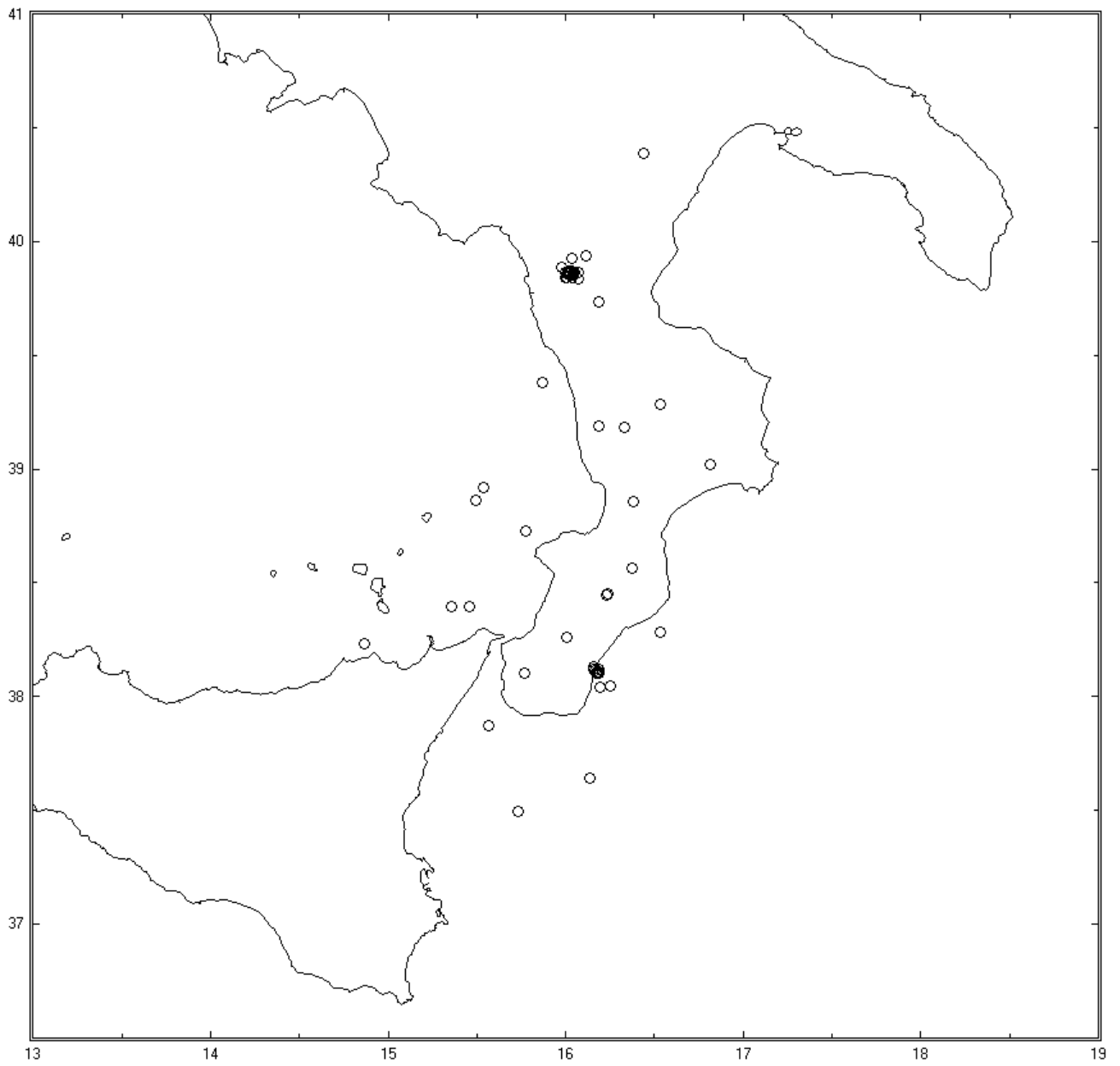
1 Murge	19 Piana di Sibari	37 Offshore Punta Stilo	55 Milazzo
2 Penisola Salentina	20 Valle dell'Esaro	38 Punta Stilo	56 Monti Peloritani
3 Piana del Bradano e del Basento	21 Catena del Pollino	39 Serre centro-settentrionali	57 Stretto di Messina
4 Golfo di Taranto	22 Marate - Rotonda	40 Valle del Mesima	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 ₀	m	δlat	δlon	δH ₀	nr	GAP	sqm	δT ₀
Aammgg	hhmm	ss.s	°	°	km		km	km	km		°	sec	sec
150317	0532	27.2	39.1820	16.3272	18.7	1.2	0.50	0.53	1.43	20	110	0.25	0.08
150317	2024	40.0	39.8673	16.0711	0.0		0.56	0.26	0.46	6	194	0.10	0.06
150317	2024	49.8	39.8670	16.0706	0.0		0.57	0.27	0.47	6	195	0.10	0.06
150318	2114	17.4	38.8591	16.3825	14.0	1.6	0.45	0.69	2.17	37	85	0.37	0.08
150319	0525	54.4	38.1022	15.7691	13.5	1.7	0.42	0.35	1.10	17	83	0.19	0.05
150319	0724	22.0	39.8379	16.0684	0.9		0.25	0.30	0.67	8	123	0.15	0.06
150319	1157	33.3	39.1878	16.1884	11.8	1.2	0.45	0.65	1.77	23	129	0.31	0.08
150319	1446	9.8	38.9194	15.5336	248.2	2.6	3.82	5.05	3.92	21	187	0.46	0.17
150319	1658	7.9	39.8644	16.0412	8.2	1.2	0.86	0.86	2.45	14	112	0.42	0.11
150319	2207	16.7	39.7347	16.1852	1.3		0.51	0.71	1.23	10	131	0.27	0.10
150320	0244	25.5	38.2342	14.8678	121.2	2.1	2.77	1.87	4.02	26	66	0.50	0.13
150320	0415	28.4	39.8597	16.0137	7.7		0.77	0.34	0.34	6	240	0.06	0.07
150320	2234	52.7	38.3938	15.4560	87.0	2.3	1.51	1.84	4.02	34	68	0.50	0.11
150321	0340	57.7	37.8708	15.5688	9.3	1.4	1.93	1.60	3.79	11	147	0.65	0.28
150321	0345	7.3	38.3976	15.3551	114.5	2.4	0.94	1.68	3.17	46	154	0.40	0.11
150321	1924	19.2	39.8624	16.0127	7.7		1.59	0.67	0.67	6	237	0.12	0.13
150321	1929	45.9	39.8633	15.9967	10.2	2.4	0.54	0.91	3.13	52	122	0.54	0.08
150321	1936	29.6	39.8647	16.0405	7.8	1.5	0.47	0.70	1.51	17	113	0.26	0.06
150321	1942	43.9	39.8597	16.0197	7.7		0.72	0.30	0.31	6	234	0.05	0.06
150321	1958	9.6	39.8680	16.0187	8.6	1.4	0.55	0.68	2.10	25	118	0.36	0.08
150321	2023	6.9	39.8631	16.0467	8.7	1.3	0.74	0.76	2.10	15	110	0.36	0.09
150321	2042	9.6	39.8591	16.0426	9.3	1.5	0.60	0.74	2.03	20	114	0.35	0.08
150322	0010	9.2	39.8654	16.0188	7.7		1.02	0.40	0.40	6	226	0.07	0.07
150322	0023	59.9	39.8556	16.0272	7.5	1.8	0.67	0.76	2.11	22	117	0.36	0.09
150322	0026	31.5	39.8527	16.0388	7.6	1.2	0.80	0.67	1.88	12	118	0.32	0.10
150322	0026	54.3	39.8397	16.0011	7.3		1.13	0.65	0.69	6	270	0.12	0.16
150322	0027	19.5	39.8427	16.0035	7.3	1.2	0.75	0.42	0.44	6	266	0.08	0.10
150322	0044	26.8	39.8649	16.0199	8.8		1.67	0.63	0.58	6	226	0.10	0.11
150322	0044	36.5	39.8708	16.0349	10.5	1.6	0.61	0.58	1.53	14	110	0.26	0.07
150322	0044	58.4	39.9261	16.0383	7.7		0.91	0.25	0.34	6	259	0.06	0.09
150322	0053	8.0	39.8661	16.0248	9.7	1.5	0.58	0.47	1.25	12	119	0.22	0.06
150322	0424	58.8	39.8579	16.0085	7.7		0.59	0.27	0.27	6	248	0.05	0.06
150322	1918	26.7	38.7252	15.7730	161.7	2.6	2.34	5.36	4.11	28	153	0.50	0.10
150323	2320	47.9	38.4463	16.2298	0.0	1.5	0.50	0.66	1.67	19	110	0.37	0.09
150324	0104	9.7	38.4502	16.2404	0.8	1.8	0.46	0.62	1.68	25	110	0.37	0.08
150324	0441	19.3	38.2849	16.5362	5.1		1.65	2.54	1.05	6	338	0.23	0.33
150325	1138	33.9	40.3858	16.4379	39.3	2.4	0.88	1.16	4.49	41	112	0.58	0.11
150325	2213	18.1	39.9385	16.1177	1.4		0.29	0.19	0.26	6	248	0.06	0.07
150326	1151	45.5	37.4933	15.7289	19.6	2.2	2.21	3.09	3.10	16	211	0.53	0.34
150327	2208	0.3	39.0222	16.8138	17.0		0.85	1.26	2.28	12	181	0.39	0.18
150328	0821	54.4	37.6414	16.1330	35.1	3.1	0.95	1.36	3.63	59	201	0.46	0.15
150328	1837	29.6	38.8618	15.4956	209.3	2.4	3.02	5.57	3.97	22	237	0.48	0.28
150328	2207	49.5	38.0468	16.2531	9.0	2.9	1.00	1.14	3.48	51	200	0.60	0.19
150329	0452	58.4	39.8449	16.0318	2.3	1.1	0.47	0.54	1.57	20	121	0.35	0.09
150329	0646	42.5	38.1056	16.1735	16.7	1.3	1.24	1.18	2.04	12	189	0.35	0.17
150329	0740	2.2	39.3823	15.8719	88.1	1.6	1.94	7.00	3.18	11	150	0.40	0.22
150329	0744	36.3	38.1088	16.1891	17.9	1.7	0.88	1.00	2.13	18	192	0.37	0.17
150329	0858	25.3	38.1028	16.1778	18.3	2.2	1.06	1.31	2.90	23	191	0.50	0.21
150329	1048	45.4	38.0424	16.1946	6.6	3.6	0.81	0.85	2.58	76	188	0.57	0.14
150329	1050	5.2	38.1192	16.1579	11.0		2.30	2.13	4.34	19	210	0.75	0.39
150329	1055	56.0	38.1089	16.1786	17.4	1.3	0.89	1.01	2.08	17	190	0.36	0.16
150329	1112	32.2	38.2595	16.0057	16.7	1.8	0.77	0.53	1.25	13	161	0.22	0.06
150329	1127	4.5	38.1284	16.1565	22.0		0.62	0.67	0.89	6	207	0.15	0.10
150329	1128	18.5	38.1144	16.1671	14.9	2.2	1.21	1.42	3.20	27	185	0.55	0.20
150329	1128	59.4	38.1027	16.1881	19.2	1.9	0.63	0.71	1.48	19	194	0.26	0.11
150329	1155	49.0	38.1200	16.1857	14.6	1.6	0.98	1.14	2.47	16	189	0.43	0.19
150330	1343	34.2	39.8363	16.0714	0.1		0.30	0.13	0.23	6	240	0.05	0.06

Data	Orario		Lat N	LON E	H₀	m	δlat	δlon	δH₀	nr	GAP	sqm	δT₀
Aammgg	hhmm	ss.s	°	°	km		km	km	km		°	sec	sec
150330	2032	49.8	39.8855	15.9760	5.0		1.10	1.04	0.95	8	260	0.16	0.19
150331	0438	13.5	38.5646	16.3735	21.5		0.95	1.07	2.01	8	128	0.35	0.14
150331	2211	36.8	39.2856	16.5345	8.2		0.43	0.32	0.69	6	150	0.12	0.05

Epicentri localizzati nel periodo di riferimento



BOLLETTINO

1 150317 0532 27.2 - Amantea - M.Reventino
 Lat: 39.18 Lon: 16.32 Prof: 18.7 Km
 ± 0.50 km ± 0.53 km ± 1.4 km
 RMS: 0.25s GAP: 110.3° NR: 20

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	32	31.53	12.14	4.7	0.140
SPS2	S	32	34.03	12.14	4.7	-0.390
MC32	P	32	32.55	19.93	25.5	0.140
MC32	S	32	35.71	19.93	25.5	-0.477
SMIN	P	32	32.85	24.74	200.2	-0.063
SMIN	S	32	36.76	24.74	200.2	-0.299
CUP2	P	32	33.92	29.38	40.3	0.229
CUP2	S	32	38.81	29.38	40.3	0.404
ROI	P	32	36.58	48.04	25.6	-0.170
ROI	S	32	43.34	48.04	25.6	-0.365
CET2	P	32	36.95	50.13	320.2	-0.079
CET2	S	32	44.10	50.13	320.2	-0.086

2 150317 2024 39.9 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.07 Prof: 0.0 Km
 ± 0.56 km ± 0.26 km ± 0.5 km
 RMS: 0.10s GAP: 194.4° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	24	40.76	3.25	327.0	0.025
MMN9	S	24	41.28	3.25	327.0	-0.006
MMNA	P	24	41.68	7.66	96.5	-0.004
MMNA	S	24	42.89	7.66	96.5	-0.044
MMN	P	24	41.71	7.36	290.9	0.088
MMN	S	24	42.66	7.36	290.9	-0.165

3 150317 2024 49.7 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.07 Prof: 0.0 Km
 ± 0.57 km ± 0.27 km ± 0.5 km
 RMS: 0.10s GAP: 195.2° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	24	50.54	3.25	328.1	-0.003
MMN9	S	24	51.11	3.25	328.1	0.011
MMNA	P	24	51.44	7.71	96.1	-0.064
MMNA	S	24	52.82	7.71	96.1	0.060
MMN	P	24	51.52	7.33	291.3	0.099
MMN	S	24	52.49	7.33	291.3	-0.133

4 150318 2114 17.4 - Stretta di Catanzaro
 Lat: 38.85 Lon: 16.38 Prof: 14.0 Km
 ± 0.45 km ± 0.69 km ± 2.2 km
 RMS: 0.37s GAP: 85.4° NR: 37

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	14	21.89	18.40	313.3	0.148
SMIN	S	14	25.39	18.40	313.3	0.478
VBL2	P	14	23.99	31.50	229.2	0.264
VBL2	S	14	28.35	31.50	229.2	0.001
SPS2	P	14	27.03	48.10	355.4	0.563
SPS2	S	14	33.18	48.10	355.4	0.083
SCOI	P	14	27.03	48.99	347.1	0.461
SCOI	S	14	33.27	48.99	347.1	0.001
MC32	P	14	27.96	53.96	4.0	0.397
MC32	S	14	35.21	53.96	4.0	0.217
CUP2	P	14	28.60	59.95	13.7	0.051
CUP2	S	14	36.28	59.95	13.7	-0.422
CET2	P	14	32.07	83.03	333.6	-0.377
CET2	S	14	43.27	83.03	333.6	-0.179
ROI	P	14	32.31	80.75	11.4	-0.012
ROI	S	14	42.38	80.75	11.4	-0.856
TDS	P	14	32.78	88.94	357.4	-0.557
TDS	S	14	44.10	88.94	357.4	-0.894
MMNA	P	14	37.41	112.72	350.2	-0.646
MMNA	S	14	53.00	112.72	350.2	-0.160

5 150319 0525 54.4 - Aspromonte
 Lat: 38.10 Lon: 15.76 Prof: 13.5 Km
 ± 0.42 km ± 0.35 km ± 1.1 km
 RMS: 0.19s GAP: 83.3° NR: 17

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	25	58.19	13.43	145.1	0.231
CNDF	S	26	.61	13.43	145.1	0.057

6 150319 0724 21.9 - Alto Tirreno Cosentino
 Lat: 39.83 Lon: 16.06 Prof: .9 Km
 ± 0.25 km ± 0.30 km ± 0.7 km
 RMS: 0.15s GAP: 123.0° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	24	23.45	6.18	345.6	0.015
MMN9	S	24	24.69	6.18	345.6	0.201
MMNA	P	24	23.74	8.21	73.0	-0.110
MMNA	S	24	25.24	8.21	73.0	0.031
MMN	P	24	24.05	8.88	311.6	0.044
MMN	S	24	25.22	8.88	311.6	-0.259
CET2	P	24	30.04	35.68	196.0	0.107
CET2	S	24	35.66	35.68	196.0	-0.084

7 150319 1157 33.2 - Amantea - M.Reventino
 Lat: 39.18 Lon: 16.18 Prof: 11.8 Km
 ± 0.45 km ± 0.65 km ± 1.8 km
 RMS: 0.31s GAP: 129.8° NR: 23

STN	PHASE	MN	SEC	DIST	AZM	RES
SPS2	P	57	37.33	17.31	48.6	0.129
SPS2	S	57	40.29	17.31	48.6	0.205
SMIN	P	57	38.19	24.10	171.8	-0.044
SMIN	S	57	41.18	24.10	171.8	-0.699
MC32	P	57	39.04	26.91	49.9	0.235
MC32	S	57	42.54	26.91	49.9	-0.325
CET2	P	57	41.76	42.88	332.1	0.238
CET2	S	57	47.01	42.88	332.1	-0.561
ROI	P	57	43.49	53.80	37.5	0.018

8 150319 1446 09.8 - Scarpata di Paola
 Lat: 38.91 Lon: 15.53 Prof: 248.2 Km
 ± 3.82 km ± 5.05 km ± 3.9 km
 RMS: 0.46s GAP: 187.9° NR: 21

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	46	43.03	76.80	28.6	0.105
CET2	S	47	7.27	76.80	28.6	0.105
ROI	P	46	45.55	115.05	51.1	0.233
ROI	S	47	11.77	115.05	51.1	0.464

9 150319 1658 07.9 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.04 Prof: 8.2 Km
 ± 0.86 km ± 0.86 km ± 2.5 km
 RMS: 0.42s GAP: 112.8° NR: 14

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	58	9.80	5.22	304.3	-0.133
MMN	S	58	10.88	5.22	304.3	-0.536
MMNA	P	58	10.98	10.19	93.1	0.329
MMNA	S	58	13.06	10.19	93.1	0.400
CET2	P	58	15.30	38.00	191.4	0.058
CET2	S	58	19.80	38.00	191.4	-0.809

10 150319 2207 16.6 - Valle dell'Esaro
 Lat: 39.73 Lon: 16.18 Prof: 1.3 Km
 ± 0.51 km ± 0.71 km ± 1.2 km
 RMS: 0.27s GAP: 131.4° NR: 10

STN	PHASE	MN	SEC	DIST	AZM	RES
MMNA	P	07	19.85	14.04	351.3	0.008
MMNA	S	07	22.10	14.04	351.3	-0.047
TDS	P	07	20.09	15.49	122.6	0.031
TDS	S	07	22.55	15.49	122.6	0.019
MMN9	P	07	20.82	20.92	326.6	-0.286
MMN9	S	07	23.97	20.92	326.6	-0.368
MMN	P	07	21.82	24.04	316.2	0.197
MMN	S	07	25.77	24.04	316.2	0.543
CET2	P	07	23.02	30.24	221.0	0.116
CET2	S	07	27.18	30.24	221.0	-0.275

11 150320 0244 25.4 - Bacino di Cefalù
 Lat: 38.23 Lon: 14.86 Prof: 121.2 Km
 ± 2.77 km ± 1.87 km ± 4.0 km
 RMS: 0.50s GAP: 66.7° NR: 26

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	44	48.76	118.73	66.2	-0.327
VBL2	S	45	6.03	118.73	66.2	-0.344

12 150320 0415 28.4 - Alto Tirreno Cosentino
 Lat: 39.85 Lon: 16.01 Prof: 7.7 Km
 ± 0.77 km ± 0.34 km ± 0.3 km
 RMS: 0.06s GAP: 240.3° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	15	30.33	3.98	330.4	0.055
MMN	S	15	31.56	3.98	330.4	-0.062
MMN9	P	15	30.35	4.75	41.4	-0.023
MMN9	S	15	31.82	4.75	41.4	0.026
MMNA	P	15	31.47	12.53	90.1	-0.033
MMNA	S	15	33.79	12.53	90.1	0.041

13 150320 2234 52.6 - Bacino di Gioia
 Lat: 38.39 Lon: 15.45 Prof: 87.0 Km
 ± 1.51 km ± 1.84 km ± 4.0 km
 RMS: 0.50s GAP: 68.0° NR: 34

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	35	8.10	55.80	141.3	0.515
CNDF	S	35	19.27	55.80	141.3	0.782
VBL2	P	35	8.49	64.78	61.6	-0.035
VBL2	S	35	19.34	64.78	61.6	-0.777
SMIN	P	35	11.08	92.99	46.5	-0.093
SMIN	S	35	23.90	92.99	46.5	-0.803
SPS2	P	35	13.88	125.67	37.8	-0.784
SPS2	S	35	31.53	125.67	37.8	0.776

14 150321 0340 57.6 - Piana bat. ionica
 Lat: 37.87 Lon: 15.56 Prof: 9.3 Km
 ± 1.93 km ± 1.60 km ± 3.8 km
 RMS: 0.65s GAP: 147.4° NR: 11

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	41	4.10	29.30	60.2	0.691
CNDF	S	41	7.51	29.30	60.2	-0.092

15 150321 0345 07.3 - Bacino di Gioia
 Lat: 38.39 Lon: 15.35 Prof: 114.5 Km
 ± 0.94 km ± 1.68 km ± 3.2 km
 RMS: 0.40s GAP: 154.7° NR: 46

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	45	25.58	62.05	135.3	0.027
CNDF	S	45	39.37	62.05	135.3	0.462
VBL2	P	45	26.41	72.44	65.3	-0.102
VBL2	S	45	40.54	72.44	65.3	-0.030
SMIN	P	45	28.38	99.24	50.2	-0.343
SMIN	S	45	43.51	99.24	50.2	-0.888
SPS2	P	45	31.45	130.87	41.0	-0.300
SPS2	S	45	49.03	130.87	41.0	-0.612
CUP2	P	45	34.20	150.62	43.6	0.576
CUP2	S	45	53.88	150.62	43.6	0.993
ROI	P	45	35.87	167.50	39.1	0.360
ROI	S	45	57.14	167.50	39.1	0.987
MMNA	P	45	37.05	176.60	23.5	0.008
MMNA	S	45	59.37	176.60	23.5	0.563

16 150321 1924 19.2 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.01 Prof: 7.7 Km
 ± 1.59 km ± 0.67 km ± 0.7 km
 RMS: 0.12s GAP: 237.8° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	24	21.14	3.67	329.3	0.088
MMN	S	24	22.28	3.67	329.3	-0.101
MMN9	P	24	21.17	4.59	44.7	0.012
MMN9	S	24	22.55	4.59	44.7	-0.014
MMNA	P	24	22.22	12.62	91.5	-0.101
MMNA	S	24	24.70	12.62	91.5	0.117

17 150321 1929 45.9 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 15.99 Prof: 10.2 Km
 ± 0.54 km ± 0.91 km ± 3.1 km
 RMS: 0.54s GAP: 122.8° NR: 52

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	29	48.07	3.10	350.5	-0.062
MMN	S	29	49.60	3.10	350.5	-0.129
MMN9	P	29	48.10	5.57	55.5	-0.231

MMN9	S	29	49.57	5.57	55.5	-0.507
MMNA	P	29	49.14	13.99	91.8	-0.327
MMNA	S	29	51.31	13.99	91.8	-0.732
TDS	P	29	52.96	36.93	127.8	0.051
TDS	S	29	59.00	36.93	127.8	0.995
CET2	P	29	53.34	37.31	185.7	0.129
CET2	S	29	58.20	37.31	185.7	-0.337
ROI	P	29	57.42	58.79	123.4	0.430
ROI	S	30	6.04	58.79	123.4	0.964
MC32	P	29	58.82	68.47	147.4	0.380
MC32	S	30	8.43	68.47	147.4	0.847
SPS2	P	29	59.01	70.00	155.2	0.414
SPS2	S	30	8.16	70.00	155.2	0.306
CUP2	P	29	59.46	71.27	138.4	0.561
CUP2	S	30	8.32	71.27	138.4	-0.059
SMIN	P	30	4.20	100.84	168.7	0.317
SMIN	S	30	17.60	100.84	168.7	0.586
VBL2	P	30	8.42	132.40	176.0	-0.886
VBL2	S	30	25.45	132.40	176.0	-0.954

18 150321 1936 29.5 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.04 Prof: 7.8 Km
 ± 0.47 km ± 0.70 km ± 1.5 km
 RMS: 0.26s GAP: 113.0° NR: 17

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	36	31.43	5.16	304.4	-0.107
MMN	S	36	32.74	5.16	304.4	-0.230
MMN9	P	36	31.49	3.13	15.7	0.086
MMN9	S	36	32.89	3.13	15.7	0.146
CET2	P	36	36.65	38.01	191.3	-0.256
CET2	S	36	41.84	38.01	191.3	-0.432

19 150321 1942 43.8 - Alto Tirreno Cosentino
 Lat: 39.85 Lon: 16.01 Prof: 7.7 Km
 ± 0.72 km ± 0.30 km ± 0.3 km
 RMS: 0.05s GAP: 234.3° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	42	45.72	4.26	324.4	-0.023
MMN	S	42	47.16	4.26	324.4	0.050
MMN9	P	42	45.75	4.43	36.4	-0.039
MMN9	S	42	47.21	4.43	36.4	0.023
MMNA	P	42	46.91	12.02	90.1	0.044
MMNA	S	42	49.01	12.02	90.1	-0.038

20 150321 1958 09.5 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.01 Prof: 8.6 Km
 ± 0.55 km ± 0.68 km ± 2.1 km
 RMS: 0.36s GAP: 118.3° NR: 25

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	58	11.49	3.49	316.8	-0.005
MMN	S	58	12.81	3.49	316.8	-0.109
MMN9	P	58	11.53	3.79	45.7	-0.020
MMN9	S	58	13.00	3.79	45.7	-0.015
MMNA	P	58	12.57	12.14	94.4	-0.063
MMNA	S	58	15.33	12.14	94.4	0.438
TDS	P	58	16.80	35.79	130.3	0.531
CET2	P	58	16.89	38.05	188.5	-0.011
CET2	S	58	22.04	38.05	188.5	-0.243

21 150321 2023 06.9 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.04 Prof: 8.7 Km
 ± 0.74 km ± 0.76 km ± 2.1 km
 RMS: 0.36s GAP: 110.6° NR: 15

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	23	8.87	5.70	302.8	-0.190
MMN	S	23	10.21	5.70	302.8	-0.414
MMN9	P	23	8.90	3.20	5.7	0.004
MMN9	S	23	10.40	3.20	5.7	0.056
MMNA	P	23	9.94	9.71	92.4	0.296
MMNA	S	23	11.98	9.71	92.4	0.341
CET2	P	23	14.09	37.95	192.2	-0.157
CET2	S	23	19.10	37.95	192.2	-0.518

22 150321 2042 09.6 - Alto Tirreno Cosentino
 Lat: 39.85 Lon: 16.04 Prof: 9.3 Km
 ± 0.60 km ± 0.74 km ± 2.0 km
 RMS: 0.35s GAP: 114.5° NR: 20

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	42	11.58	5.67	308.5	-0.245
MMN	S	42	13.34	5.67	308.5	-0.116
MMN9	P	42	11.60	3.69	10.5	-0.101
MMN9	S	42	13.02	3.69	10.5	-0.220
MMNA	P	42	12.66	10.06	89.7	0.217
MMNA	S	42	15.13	10.06	89.7	0.613
CET2	P	42	16.82	37.44	191.8	-0.039
CET2	S	42	21.89	37.44	191.8	-0.284

23 150322 0010 09.1 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.01 Prof: 7.7 Km
 ± 1.02 km ± 0.40 km ± 0.4 km
 RMS: 0.07s GAP: 226.6° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	10	10.99	3.99	42.6	-0.038
MMN9	S	10	12.44	3.99	42.6	0.039
MMN	P	10	11.04	3.71	319.7	0.066
MMN	S	10	12.24	3.71	319.7	-0.066
MMNA	P	10	12.12	12.11	93.1	-0.033
MMNA	S	10	14.39	12.11	93.1	0.042

24 150322 0023 59.9 - Alto Tirreno Cosentino
 Lat: 39.85 Lon: 16.02 Prof: 7.5 Km
 ± 0.67 km ± 0.76 km ± 2.1 km
 RMS: 0.36s GAP: 117.6° NR: 22

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	24	1.73	5.01	321.5	-0.105
MMN	S	24	3.24	5.01	321.5	0.012
MMN9	P	24	1.78	4.48	26.3	-0.038
MMN9	S	24	3.22	4.48	26.3	0.021
MMNA	P	24	2.81	11.38	87.8	0.015
MMNA	S	24	5.17	11.38	87.8	0.279
CET2	P	24	7.00	36.81	189.9	-0.048
CET2	S	24	12.26	36.81	189.9	0.003

25 150322 0026 31.4 - Alto Tirreno Cosentino
 Lat: 39.85 Lon: 16.03 Prof: 7.6 Km
 ± 0.80 km ± 0.67 km ± 1.9 km
 RMS: 0.32s GAP: 118.1° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	26	33.29	5.90	315.9	-0.196
MMN	S	26	34.65	5.90	315.9	-0.307
MMN9	P	26	33.33	4.45	13.0	-0.046
MMN9	S	26	34.78	4.45	13.0	0.014
MMNA	P	26	34.39	10.41	85.9	0.197
MMNA	S	26	36.76	10.41	85.9	0.579
CET2	P	26	38.66	36.68	191.5	0.088
CET2	S	26	43.60	36.68	191.5	-0.164

26 150322 0026 54.3 - Alto Tirreno Cosentino
 Lat: 39.83 Lon: 16.00 Prof: 7.3 Km
 ± 1.13 km ± 0.65 km ± 0.7 km
 RMS: 0.12s GAP: 270.3° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	26	56.34	5.75	351.2	0.091
MMN	S	26	57.50	5.75	351.2	-0.177
MMN9	P	26	56.45	7.16	36.1	0.006
MMN9	S	26	58.10	7.16	36.1	0.084
MMNA	P	26	57.49	13.79	80.8	-0.059
MMNA	S	27	-.05	13.79	80.8	0.019

27 150322 0027 19.5 - Alto Tirreno Cosentino
 Lat: 39.84 Lon: 16.00 Prof: 7.3 Km
 ± 0.75 km ± 0.42 km ± 0.4 km
 RMS: 0.08s GAP: 266.4° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	27	21.51	5.46	348.5	0.066
MMN	S	27	22.76	5.46	348.5	-0.090
MMN9	P	27	21.58	6.77	36.4	-0.044

MMN9	S	27	23.23	6.77	36.4	0.067
MMNA	P	27	22.72	13.54	82.1	-0.014
MMNA	S	27	25.09	13.54	82.1	0.006

28 150322 0044 26.8 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.01 Prof: 8.8 Km
 ± 1.67 km ± 0.63 km ± 0.6 km
 RMS: 0.10s GAP: 226.2° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	44	28.77	3.82	319.1	-0.054
MMN	S	44	30.35	3.82	319.1	0.062
MMN9	P	44	28.83	3.96	41.1	-0.038
MMN9	S	44	30.41	3.96	41.1	0.046
MMNA	P	44	30.00	12.01	92.9	0.095
MMNA	S	44	32.05	12.01	92.9	-0.109

29 150322 0044 36.5 - Alto Tirreno Cosentino
 Lat: 39.87 Lon: 16.03 Prof: 10.5 Km
 ± 0.61 km ± 0.58 km ± 1.5 km
 RMS: 0.26s GAP: 110.1° NR: 14

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	44	38.73	4.39	300.5	-0.127
MMN	S	44	40.32	4.39	300.5	-0.227
MMN9	P	44	38.79	2.68	29.6	-0.007
MMN9	S	44	40.35	2.68	29.6	-0.093
MMNA	P	44	39.84	10.78	96.7	0.207
MMNA	S	44	42.32	10.78	96.7	0.431
CET2	P	44	44.08	38.59	190.4	0.037
CET2	S	44	49.03	38.59	190.4	-0.498

30 150322 0044 58.4 - Maratea - Rotonda
 Lat: 39.92 Lon: 16.03 Prof: 7.7 Km
 ± 0.91 km ± 0.25 km ± 0.3 km
 RMS: 0.06s GAP: 259.1° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	45	.33	3.94	165.0	0.041
MMN9	S	45	1.71	3.94	165.0	0.051
MMN	P	45	.42	5.65	226.3	0.006
MMN	S	45	1.82	5.65	226.3	-0.055
MMNA	P	45	1.47	12.77	125.4	-0.056
MMNA	S	45	3.82	12.77	125.4	0.017

31 150322 0053 08.0 - Alto Tirreno Cosentino
 Lat: 39.86 Lon: 16.02 Prof: 9.7 Km
 ± 0.58 km ± 0.47 km ± 1.2 km
 RMS: 0.22s GAP: 119.3° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	53	10.21	4.01	313.4	0.019
MMN	S	53	11.53	4.01	313.4	-0.238
MMN9	P	53	10.27	3.60	37.5	0.070
MMN9	S	53	11.68	3.60	37.5	-0.103
MMNA	P	53	11.32	11.60	93.6	0.174
MMNA	S	53	13.79	11.60	93.6	0.368
CET2	P	53	15.57	37.93	189.3	0.178
CET2	S	53	20.47	37.93	189.3	-0.306

32 150322 0424 58.8 - Alto Tirreno Cosentino
 Lat: 39.85 Lon: 16.00 Prof: 7.7 Km
 ± 0.59 km ± 0.27 km ± 0.3 km
 RMS: 0.05s GAP: 248.2° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	25	.69	3.96	337.5	0.042
MMN	S	25	1.96	3.96	337.5	-0.035
MMN9	P	25	.77	5.20	43.7	-0.020
MMN9	S	25	2.25	5.20	43.7	0.009
MMNA	P	25	1.92	12.98	89.2	-0.033
MMNA	S	25	4.30	12.98	89.2	0.045

33 150322 1918 26.7 - Bacino di Paola
 Lat: 38.72 Lon: 15.77 Prof: 161.7 Km
 ± 2.34 km ± 5.36 km ± 4.1 km
 RMS: 0.50s GAP: 153.1° NR: 28

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	18	49.78	29.68	101.3	0.835

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	53	-.14	6.19	325.5	-0.074
MMN	S	53	.74	6.19	325.5	-0.327
MMN9	P	53	-.08	5.44	17.0	0.104
MMN9	S	53	1.02	5.44	17.0	0.175
MMNA	P	53	1.08	11.10	81.6	0.142
MMNA	S	53	3.21	11.10	81.6	0.405
CET2	P	53	5.13	35.72	190.8	-0.269
CET2	S	53	10.22	35.72	190.8	-0.313

45 150329 0646 42.5 - Locride
Lat: 38.10 Lon: 16.17 Prof: 16.7 Km
± 1.24 km ± 1.18 km ± 2.0 km
RMS: 0.35s GAP: 189.7° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	46	48.82	29.99	247.9	0.012
CNDF	S	46	53.37	29.99	247.9	-0.024

46 150329 0740 02.1 - Bacino di Paola
Lat: 39.38 Lon: 15.87 Prof: 88.1 Km
± 1.94 km ± 7.00 km ± 3.2 km
RMS: 0.40s GAP: 150.5° NR: 11

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	40	15.14	17.75	23.8	0.435
CET2	S	40	24.16	17.75	23.8	0.290

47 150329 0744 36.3 - Locride
Lat: 38.10 Lon: 16.18 Prof: 17.9 Km
± 0.88 km ± 1.00 km ± 2.1 km
RMS: 0.37s GAP: 192.0° NR: 18

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	44	43.13	31.39	248.2	0.219
CNDF	S	44	47.64	31.39	248.2	-0.083

48 150329 0858 25.3 - Locride
Lat: 38.10 Lon: 16.17 Prof: 18.3 Km
± 1.06 km ± 1.31 km ± 2.9 km
RMS: 0.50s GAP: 191.6° NR: 23

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	58	31.89	30.23	248.7	0.158
CNDF	S	58	36.49	30.23	248.7	0.051
VBL2	P	58	37.83	63.67	354.6	0.683
VBL2	S	58	45.69	63.67	354.6	-0.127
SMIN	P	58	43.72	96.69	2.6	0.998
SMIN	S	58	54.71	96.69	2.6	-0.762

49 150329 1048 45.3 - Offshore Locride
Lat: 38.04 Lon: 16.19 Prof: 6.6 Km
± 0.81 km ± 0.85 km ± 2.6 km
RMS: 0.57s GAP: 188.9° NR: 76

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	48	52.24	29.94	261.8	0.923
CNDF	S	48	56.45	29.94	261.8	0.780
SMIN	P	49	3.58	103.33	1.6	-0.344
SMIN	S	49	16.86	103.33	1.6	-0.646
ROG2	P	49	7.39	126.61	5.2	-0.543
SCOI	P	49	9.98	138.51	2.2	0.042
SCOI	S	49	27.39	138.51	2.2	-0.533
MC32	P	49	12.23	145.89	7.9	0.909
CUP2	P	49	12.23	152.01	11.6	0.150
CUP2	S	49	32.02	152.01	11.6	0.385
LADO	P	49	12.85	153.81	26.1	0.899
LADO	S	49	32.36	153.81	26.1	0.950
CET2	P	49	13.01	166.31	352.9	0.835
CET2	S	49	31.91	166.31	352.9	0.109
TDS	P	49	15.66	179.93	3.9	-0.365
TDS	S	49	39.02	179.93	3.9	0.552
MMN9	P	49	18.58	205.69	356.6	-0.893
MMN	P	49	18.93	205.96	355.2	-0.547

50 150329 1050 05.1 - Locride
Lat: 38.11 Lon: 16.15 Prof: 11.0 Km
± 2.30 km ± 2.13 km ± 4.3 km
RMS: 0.75s GAP: 210.4° NR: 19

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	43	35.62	6.43	343.8	0.000
MMN9	S	43	36.71	6.43	343.8	0.027
MMNA	P	43	35.94	8.02	71.2	-0.020
MMNA	S	43	37.28	8.02	71.2	0.008

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	50	10.68	29.36	244.1	-0.298
CNDF	S	50	15.09	29.36	244.1	-0.142
SMIN	P	50	22.93	94.96	3.7	0.796
SMIN	S	50	34.45	94.96	3.7	-0.105
SCOI	P	50	28.11	130.17	3.8	-0.029
CET2	P	50	31.26	157.47	353.7	0.973
CET2	S	50	48.32	157.47	353.7	-0.358
TDS	P	50	35.08	171.69	5.2	0.925
MMN	P	50	36.69	197.21	355.9	-0.850
MMN	S	51	.35	197.21	355.9	-0.889

51 150329 1055 55.9 - Locride
Lat: 38.10 Lon: 16.17 Prof: 17.4 Km
± 0.89 km ± 1.01 km ± 2.1 km
RMS: 0.36s GAP: 190.2° NR: 17

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	56	2.63	30.55	247.6	0.240
CNDF	S	56	7.05	30.55	247.6	-0.028

52 150329 1112 32.1 - Serre meridionali
Lat: 38.25 Lon: 16.00 Prof: 16.7 Km
± 0.77 km ± 0.53 km ± 1.3 km
RMS: 0.22s GAP: 161.7° NR: 13

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	12	38.68	31.28	204.8	0.071
CNDF	S	12	43.23	31.28	204.8	-0.075

53 150329 1127 04.5 - Locride
Lat: 38.12 Lon: 16.15 Prof: 22.0 Km
± 0.62 km ± 0.67 km ± 0.9 km
RMS: 0.15s GAP: 207.6° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	27	11.35	29.70	242.3	0.146
CNDF	S	27	15.93	29.70	242.3	-0.170

54 150329 1128 18.4 - Locride
Lat: 38.11 Lon: 16.16 Prof: 14.9 Km
± 1.21 km ± 1.42 km ± 3.2 km
RMS: 0.55s GAP: 185.8° NR: 27

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	28	24.62	29.86	245.7	0.037
CNDF	S	28	29.27	29.86	245.7	0.206
VBL2	P	28	28.96	62.30	355.3	-0.987
SMIN	P	28	35.95	95.44	3.2	0.361
SMIN	S	28	48.60	95.44	3.2	0.476

55 150329 1128 59.4 - Locride
Lat: 38.10 Lon: 16.18 Prof: 19.2 Km
± 0.63 km ± 0.71 km ± 1.5 km
RMS: 0.26s GAP: 194.3° NR: 19

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	29	6.24	31.06	249.3	0.197
CNDF	S	29	10.83	31.06	249.3	-0.066

56 150329 1155 48.9 - Locride
Lat: 38.12 Lon: 16.18 Prof: 14.6 Km
± 0.98 km ± 1.14 km ± 2.5 km
RMS: 0.43s GAP: 189.3° NR: 16

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	55	55.37	31.61	245.9	0.013
CNDF	S	56	-.14	31.61	245.9	-0.163

57 150330 1343 34.1 - Alto Tirreno Cosentino
Lat: 39.83 Lon: 16.07 Prof: .1 Km
± 0.30 km ± 0.13 km ± 0.2 km
RMS: 0.05s GAP: 240.2° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	43	35.62	6.43	343.8	0.000
MMN9	S	43	36.71	6.43	343.8	0.027
MMNA	P	43	35.94	8.02	71.2	-0.020
MMNA	S	43	37.28	8.02	71.2	0.008

MMN P 43 36.27 9.19 311.4 0.044
 MMN S 43 37.65 9.19 311.4 -0.080
58 150330 2032 49.8 - Alto Tirreno Cosentino
 Lat: 39.88 Lon: 15.97 Prof: 5.0 Km
 ± 1.10 km ± 1.04 km ± 1.0 km
 RMS: 0.16s GAP: 260.6° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	33	5.93	1.38	64.7	-0.077
MMN	S	33	6.64	1.38	64.7	-0.295
MMN9	P	33	6.64	6.39	83.8	0.063
MMN9	S	33	7.99	6.39	83.8	0.068
MMNA	P	33	8.36	16.01	100.4	-0.015
MMNA	S	33	10.72	16.01	100.4	-0.318

59 150331 0438 13.4 - Serre centro-sett.
 Lat: 38.56 Lon: 16.37 Prof: 21.5 Km
 ± 0.95 km ± 1.07 km ± 2.0 km
 RMS: 0.35s GAP: 128.6° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	38	22.98	47.05	344.4	0.232
SMIN	S	38	29.76	47.05	344.4	0.222

60 150331 2211 36.7 - Sila Grande
 Lat: 39.28 Lon: 16.53 Prof: 8.2 Km
 ± 0.43 km ± 0.32 km ± 0.7 km
 RMS: 0.12s GAP: 150.8° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
CUP2	P	11	39.44	10.92	6.0	-0.113
CUP2	S	11	41.72	10.92	6.0	0.130
SPS2	P	11	40.42	16.90	271.9	0.058
SPS2	S	11	42.93	16.90	271.9	-0.067