



**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

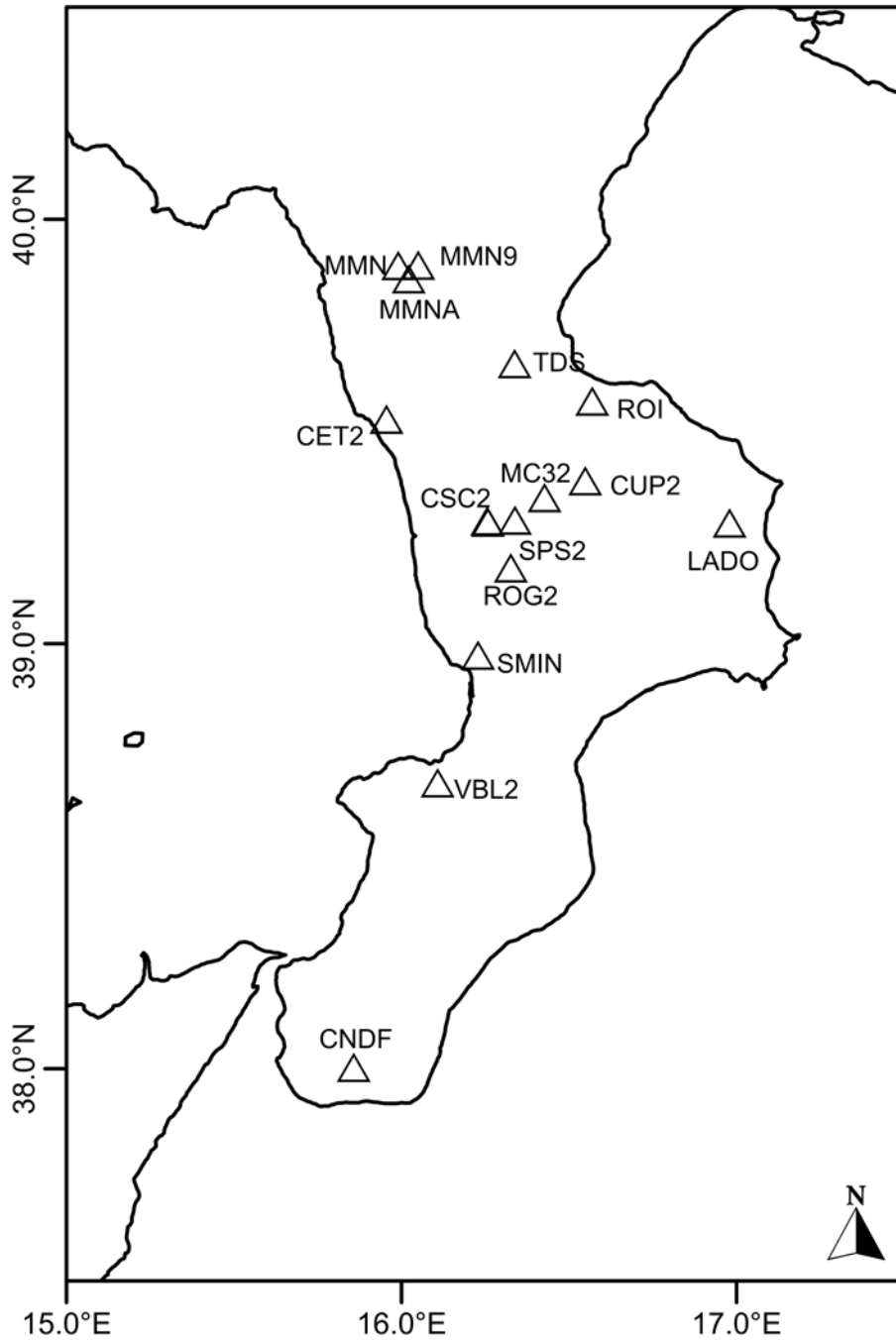
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DELLE AREE CIRCOSTANTI

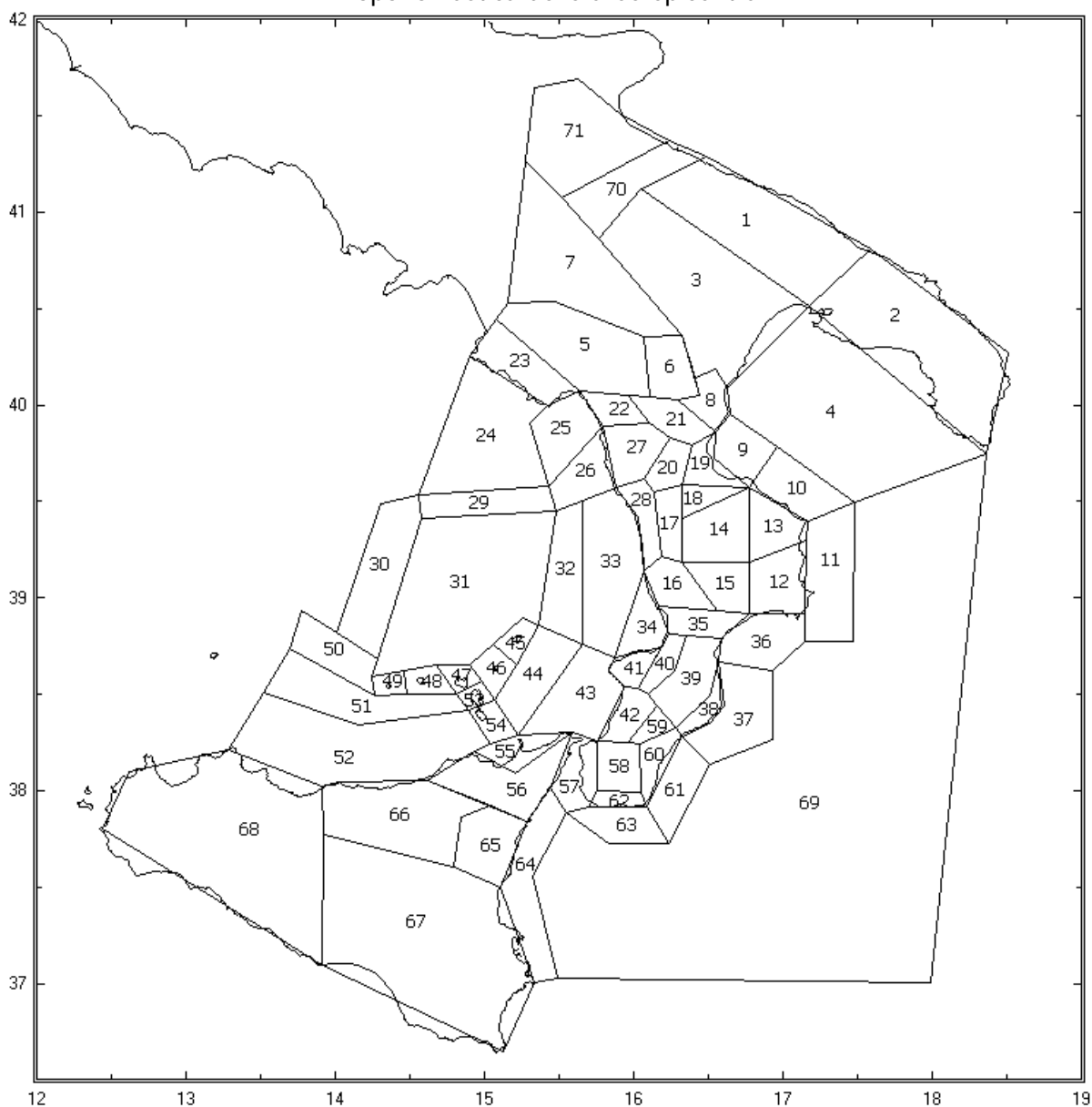
prodotto nell'ambito delle attività dell'O.R. 2.1

Periodo 16-31 Dicembre 2014

Distribuzione delle stazioni della Rete Sismica UniCal – Pon MASSIMO



Toponomastica delle aree epicentrali

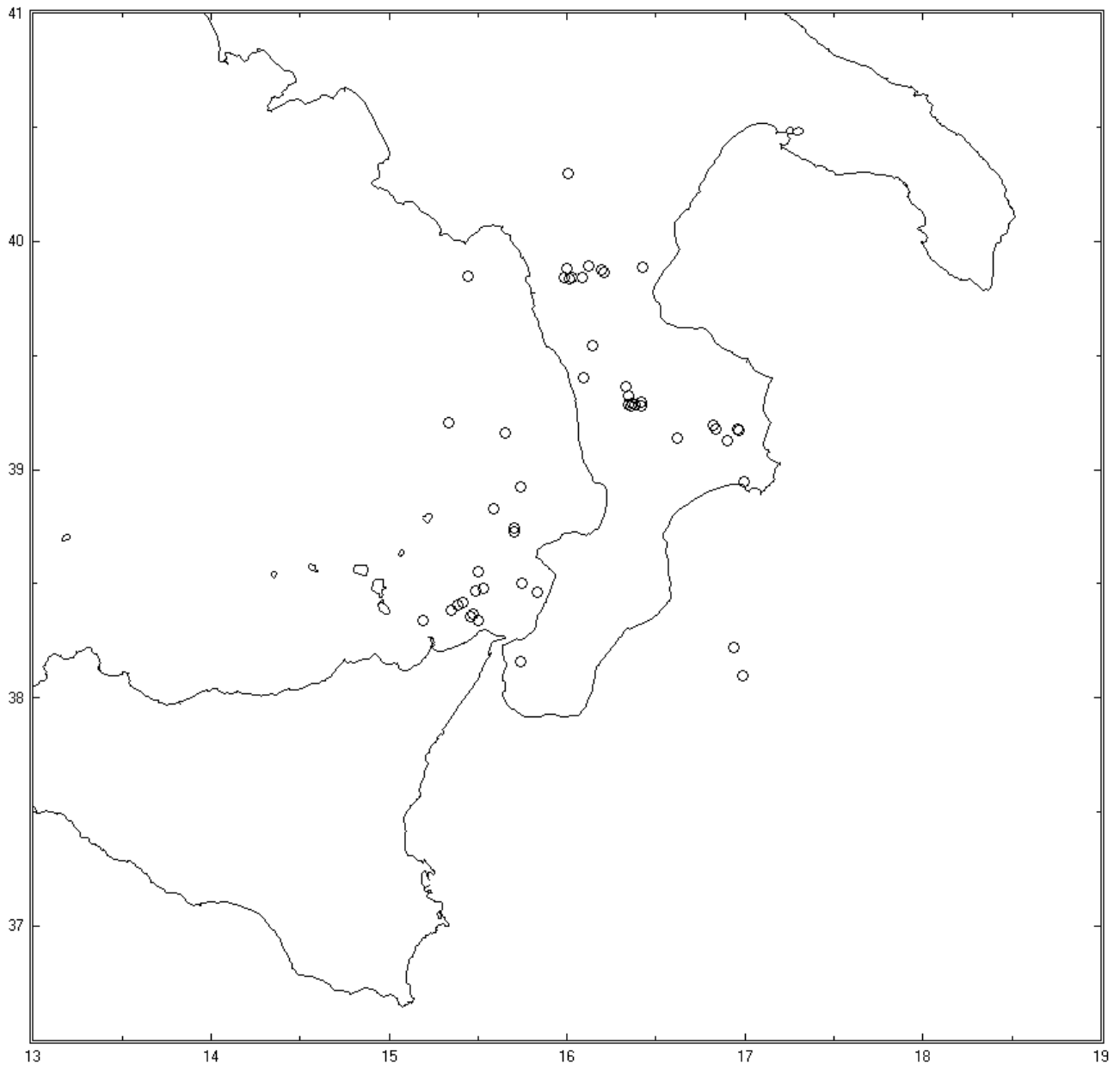


1 Murge	19 Piana di Sibari	37 Offshore Punta Stilo	55 Milazzo
2 Penisola Salentina	20 Valle dell'Esaro	38 Punta Stilo	56 Monti Peloritani
3 Piana del Bradano e del Basento	21 Catena del Pollino	39 Serre centro-settentrionali	57 Stretto di Messina
4 Golfo di Taranto	22 Marate - Rotonda	40 Valle del Mesima	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
141216	1215	46.8	38.9465	16.9940	11.3	2.4	0.98	1.77	2.90	26	234	0.50	0.30
141217	2346	35.5	39.1271	16.9021	12.6	0.9	1.03	2.01	1.96	10	251	0.34	0.32
141218	0128	39.2	39.8440	16.0854	8.1	0.8	0.61	0.69	1.79	12	109	0.31	0.09
141219	0936	21.3	38.5014	15.7465	48.9	1.7	1.50	1.49	3.85	15	127	0.49	0.14
141219	2015	50.3	38.4159	15.4179	125.0	2.3	1.24	2.37	3.55	40	129	0.43	0.11
141219	2256	4.2	38.3835	15.3500	128.2	2.2	1.68	2.27	3.89	32	78	0.47	0.10
141220	2232	0.8	39.8420	16.0243	0.1		1.79	1.15	1.67	6	251	0.37	0.42
141220	2232	2.2	39.8354	16.0116	0.2		2.34	1.69	2.13	6	265	0.47	0.60
141220	2254	26.4	39.8429	15.9822	0.1		0.89	0.88	0.88	6	284	0.20	0.28
141221	0517	1.5	39.5446	16.1430	17.9	1.6	1.82	2.65	4.10	8	101	0.71	0.25
141222	2308	38.5	38.3371	15.5025	127.3	2.5	1.23	1.56	3.49	52	47	0.42	0.07
141223	0453	40.0	39.1774	16.8326	30.3	2.1	0.73	1.01	2.40	27	156	0.37	0.12
141223	0635	36.4	39.1957	16.8224	24.9	1.7	1.33	1.42	3.60	25	159	0.55	0.20
141223	1016	53.2	39.1618	15.6551	214.9	2.6	2.17	3.86	3.74	28	193	0.43	0.16
141223	1752	29.2	39.8897	16.4223	2.2	1.2	0.67	0.93	2.08	19	137	0.46	0.13
141223	2100	27.6	39.8904	16.1207	5.6	1.2	0.82	0.74	2.17	20	100	0.48	0.11
141224	0659	17.3	39.8746	16.1943	6.6	1.2	0.56	0.70	1.72	18	63	0.38	0.09
141224	0837	27.7	38.7454	15.7058	157.0	2.2	2.03	6.20	4.08	15	143	0.49	0.16
141224	1913	5.8	38.3656	15.4689	117.6	2.3	1.31	1.50	3.28	41	64	0.41	0.07
141224	1946	24.3	38.5521	15.5003	240.9	2.5	2.33	3.59	3.08	41	72	0.37	0.09
141224	2142	55.9	39.2048	15.3358	271.4	2.5	2.59	3.45	3.92	37	119	0.46	0.14
141225	1014	17.6	38.4685	15.4852	164.6	3.1	1.56	2.05	3.79	55	88	0.46	0.07
141225	1543	5.3	38.8306	15.5864	208.1	2.4	2.52	4.94	3.84	26	118	0.46	0.18
141225	2144	14.1	38.1607	15.7359	75.0	2.8	0.90	1.20	4.15	78	46	0.52	0.07
141225	2156	48.8	38.3552	15.4584	113.7		3.20	6.54	4.93	12	240	0.62	0.46
141226	0040	14.6	38.2195	16.9364	41.6	2.0	1.11	2.19	3.89	39	237	0.50	0.27
141226	0201	1.4	39.1753	16.9601	11.3	1.2	1.04	1.37	2.73	22	222	0.47	0.25
141226	0748	47.2	39.8648	16.2108	10.8	1.4	0.63	0.74	1.75	10	127	0.30	0.11
141226	1849	3.3	39.8822	16.0002	0.0	1.1	0.42	0.57	0.83	9	122	0.18	0.06
141226	2319	30.0	38.0954	16.9895	2.7		3.00	4.63	2.88	6	298	0.64	0.96
141227	0203	48.1	38.4802	15.5303	139.3	2.6	1.26	2.37	3.90	51	138	0.47	0.09
141227	0235	42.8	38.4077	15.3824	112.1	2.1	1.61	2.64	3.49	22	186	0.42	0.17
141227	0536	48.8	39.4023	16.0910	14.1	1.3	1.23	1.13	1.72	8	174	0.30	0.13
141227	1507	14.0	38.7290	15.7020	99.6	3.3	0.64	0.96	3.43	100	68	0.43	0.05
141227	2138	30.8	39.1719	16.9637	12.4	1.5	0.70	1.00	1.84	19	224	0.32	0.18
141228	0002	24.3	38.3386	15.1933	107.8	2.6	0.99	1.01	1.97	31	118	0.25	0.08
141228	0608	30.3	40.2974	16.0053	19.6	3.2	0.57	0.61	2.80	41	61	0.48	0.08
141228	2143	37.7	39.2826	16.3436	13.5	4.3	0.41	0.62	2.77	55	42	0.48	0.07
141228	2146	21.6	39.2818	16.4205	25.5	3.3	0.48	0.61	2.69	48	39	0.41	0.06
141228	2151	1.5	39.2955	16.4208	21.7	2.0	0.56	0.52	2.04	31	62	0.35	0.06
141228	2154	55.5	39.2803	16.3575	14.7	2.2	0.47	0.52	2.14	33	47	0.37	0.07
141228	2155	45.9	39.3266	16.3435	8.1	2.2	1.73	1.67	2.90	10	154	0.50	0.16
141228	2200	48.6	39.1359	16.6183	20.9	2.2	0.82	0.76	2.58	29	83	0.45	0.12
141228	2249	55.4	39.2911	16.3670	12.8	2.7	0.42	0.51	2.32	43	43	0.40	0.06
141228	2255	57.9	39.2833	16.3806	5.7		4.95	2.56	3.41	6	219	0.59	0.55
141229	0512	29.5	39.3638	16.3323	0.0		1.36	1.03	1.99	8	183	0.44	0.22
141230	1252	14.2	39.8491	15.4456	5.0	1.5	0.98	1.43	1.93	15	161	0.43	0.25
141230	2340	14.4	38.4638	15.8358	17.2	1.7	0.40	0.64	1.38	20	73	0.24	0.08
141231	0113	58.8	38.9271	15.7404	165.3	2.2	1.35	2.23	2.66	34	167	0.32	0.09

Epicentri localizzati nel periodo di riferimento



BOLLETTINO

1 141216 1215 46.7 - Marchesato
 Lat: 38.94 Lon: 16.99 Prof: 11.3 Km
 ± 0.98 km ± 1.77 km ± 2.9 km
 RMS: 0.50s GAP: 234.9° NR: 26

STN	PHASE	MN	SEC	DIST	AZM	RES
CUP2	P	15	58.25	61.94	321.2	0.041
CUP2	S	16	6.29	61.94	321.2	-0.286
ROI	P	16	0.53	78.50	331.8	-0.770
ROI	S	16	11.50	78.50	331.8	-0.430
CSC2	P	16	1.07	74.00	300.4	0.941
CSC2	S	16	10.53	74.00	300.4	0.631
TDS	P	16	3.48	97.32	324.1	-0.627
TDS	S	16	17.63	97.32	324.1	0.836
CET2	P	16	6.02	110.59	305.6	0.372
CET2	S	16	18.81	110.59	305.6	-0.649

2 141217 2346 35.5 - Marchesato
 Lat: 39.12 Lon: 16.90 Prof: 12.6 Km
 ± 1.03 km ± 2.01 km ± 2.0 km
 RMS: 0.34s GAP: 251.9° NR: 10

STN	PHASE	MN	SEC	DIST	AZM	RES
ROI	P	46	45.88	57.10	329.5	-0.435
ROI	S	46	54.63	57.10	329.5	0.402

3 141218 0128 39.1 - Alto Tirreno Cosentino
 Lat: 39.84 Lon: 16.08 Prof: 8.1 Km
 ± 0.61 km ± 0.69 km ± 1.8 km
 RMS: 0.31s GAP: 109.9° NR: 12

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN9	P	28	41.60	6.10	330.7	0.176
MMN9	S	28	42.65	6.10	330.7	-0.421
MMN	P	28	41.94	9.63	302.8	0.096
MMN	S	28	43.35	9.63	302.8	-0.447
CET2	P	28	46.43	36.75	197.9	0.025
CET2	S	28	51.10	36.75	197.9	-0.599

4 141219 0936 21.2 - Bacino di Gioia
 Lat: 38.50 Lon: 15.74 Prof: 48.9 Km
 ± 1.50 km ± 1.49 km ± 3.9 km
 RMS: 0.49s GAP: 127.5° NR: 15

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	36	33.42	56.13	170.3	0.223
CNDF	S	36	41.69	56.13	170.3	-0.237

5 141219 2016 50.3 - Bacino di Gioia
 Lat: 38.41 Lon: 15.41 Prof: 125.0 Km
 ± 1.24 km ± 2.37 km ± 3.5 km
 RMS: 0.43s GAP: 129.2° NR: 40

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	16	9.46	59.81	140.3	0.063
CNDF	S	16	23.63	59.81	140.3	0.289
VBL2	P	16	9.86	66.62	64.8	-0.156
VBL2	S	16	23.96	66.62	64.8	-0.453
SMIN	P	16	11.71	93.77	49.0	-0.287
SMIN	S	16	27.25	93.77	49.0	-0.597
CET2	P	16	15.35	132.01	21.0	0.804
CET2	S	16	32.60	132.01	21.0	0.339
ROI	P	16	19.32	162.52	38.0	0.915
ROI	S	16	39.17	162.52	38.0	0.228

6 141219 2256 04.2 - Bacino di Gioia
 Lat: 38.38 Lon: 15.35 Prof: 128.2 Km
 ± 1.68 km ± 2.27 km ± 3.9 km
 RMS: 0.47s GAP: 78.6° NR: 32

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	56	24.14	61.28	133.9	0.248
CNDF	S	56	39.12	61.28	133.9	0.825
SMIN	P	56	26.37	100.60	49.7	-0.605
SMIN	S	56	42.73	100.60	49.7	-0.893
CET2	P	56	29.73	137.51	22.8	0.364
CET2	S	56	48.29	137.51	22.8	0.521
ROI	P	56	33.68	169.00	38.9	0.255
ROI	S	56	55.15	169.00	38.9	0.346

7 141220 2232 00.8 - Alto Tirreno Cosentino
 Lat: 39.84 Lon: 16.02 Prof: 0.1 Km
 ± 1.79 km ± 1.15 km ± 1.7 km
 RMS: 0.37s GAP: 251.6° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	32	2.07	6.13	332.1	-0.117
MMN	S	32	3.09	6.13	332.1	-0.104
MMN9	P	32	2.18	5.96	22.1	0.024
MMN9	S	32	3.38	5.96	22.1	0.240
MMNA	P	32	3.74	11.79	80.6	0.311
MMNA	S	32	4.78	11.79	80.6	-0.571

8 141220 2232 02.2 - Alto Tirreno Cosentino
 Lat: 39.83 Lon: 16.01 Prof: 0.2 Km
 ± 2.34 km ± 1.69 km ± 2.1 km
 RMS: 0.47s GAP: 265.7° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	32	3.68	6.41	343.8	0.023
MMN	S	32	4.34	6.41	343.8	-0.378
MMN9	P	32	3.75	7.08	28.0	-0.060
MMN9	S	32	5.51	7.08	28.0	0.527
MMNA	P	32	5.39	12.99	78.2	0.286
MMNA	S	32	6.58	12.99	78.2	-0.644

9 141220 2254 26.3 - Alto Tirreno Cosentino
 Lat: 39.84 Lon: 15.98 Prof: 0.1 Km
 ± 0.89 km ± 0.88 km ± 0.9 km
 RMS: 0.20s GAP: 284.7° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
MMN	P	54	27.52	5.37	7.8	-0.061
MMN	S	54	28.35	5.37	7.8	-0.121
MMN9	P	54	28.25	7.97	47.1	0.090
MMN9	S	54	29.68	7.97	47.1	0.210
MMNA	P	54	29.85	15.34	83.1	0.068
MMNA	S	54	32.00	15.34	83.1	-0.281

10 141221 0517 01.4 - Catena Costiera
 Lat: 39.54 Lon: 16.14 Prof: 17.9 Km
 ± 1.82 km ± 2.65 km ± 4.1 km
 RMS: 0.71s GAP: 101.5° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	17	5.88	16.29	263.9	-0.196
CET2	S	17	10.28	16.29	263.9	0.846

11 141222 2308 38.5 - Bacino di Gioia
 Lat: 38.33 Lon: 15.50 Prof: 127.3 Km
 ± 1.23 km ± 1.56 km ± 3.5 km
 RMS: 0.42s GAP: 47.7° NR: 52

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	08	57.82	48.37	140.4	0.467
CNDF	S	09	11.89	48.37	140.4	0.743
VBL2	P	08	58.34	64.69	55.0	-0.137
VBL2	S	09	12.23	64.69	55.0	-0.873
SMIN	P	09	0.12	94.71	42.1	-0.529
SMIN	S	09	16.57	94.71	42.1	-0.281
CET2	P	09	3.79	137.97	16.8	0.218
CET2	S	09	22.21	137.97	16.8	0.295
CUP2	P	09	5.63	147.40	38.1	0.313
CUP2	S	09	25.60	147.40	38.1	0.656
LADO	P	09	6.61	165.83	50.7	-0.325
LADO	S	09	27.92	165.83	50.7	0.180
ROI	P	09	7.53	165.33	34.1	0.320
ROI	S	09	28.60	165.33	34.1	0.381

12 141223 0453 40.0 - Marchesato
 Lat: 39.17 Lon: 16.83 Prof: 30.3 Km
 ± 0.73 km ± 1.01 km ± 2.4 km
 RMS: 0.37s GAP: 156.2° NR: 27

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	53	46.27	17.33	46.6	0.132
LADO	S	53	50.58	17.33	46.6	-0.042
MC32	P	53	48.60	39.59	297.6	-0.235
MC32	S	53	54.52	39.59	297.6	-0.773
ROI	P	53	49.76	49.31	332.3	-0.480

ROI	S	53	58.40	49.31	332.3	0.673
SMIN	P	53	50.91	57.01	246.3	-0.305
SMIN	S	54	-0.03	57.01	246.3	0.544
TDS	P	53	52.74	68.43	321.2	-0.142
TDS	S	54	3.08	68.43	321.2	0.776
CET2	P	53	54.56	85.14	297.2	0.537
CET2	S	54	4.68	85.14	297.2	0.399
VBL2	P	53	54.96	84.11	228.2	-0.303
VBL2	S	54	6.35	84.11	228.2	-0.078

13 141223 0635 36.4 - Presila nord-or.
 Lat: 39.19 Lon: 16.82 Prof: 24.9 Km
 ± 1.33 km ± 1.42 km ± 3.6 km
 RMS: 0.55s GAP: 159.1° NR: 25

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	35	41.95	16.72	53.7	0.105
LADO	S	35	46.22	16.72	53.7	0.424
CUP2	P	35	43.47	31.53	311.1	-0.272
CUP2	S	35	49.32	31.53	311.1	0.237
MC32	P	35	44.22	37.89	295.5	-0.432
MC32	S	35	50.38	37.89	295.5	-0.279
ROI	P	35	45.65	47.11	332.1	-0.444
ROI	S	35	54.07	47.11	332.1	0.913
SMIN	P	35	47.11	57.04	244.1	-0.335
SMIN	S	35	55.77	57.04	244.1	0.274
TDS	P	35	48.48	66.29	320.7	-0.372
CET2	P	35	51.28	83.43	296.2	0.685
CET2	S	36	1.30	83.43	296.2	0.348

14 141223 1017 53.2 - Bacino di Paola
 Lat: 39.16 Lon: 15.65 Prof: 214.9 Km
 ± 2.17 km ± 3.86 km ± 3.7 km
 RMS: 0.43s GAP: 193.5° NR: 28

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	17	22.05	48.22	32.6	0.438
CET2	S	17	42.60	48.22	32.6	0.202
ROI	P	17	24.05	90.97	60.1	0.125
ROI	S	17	47.31	90.97	60.1	0.906
LADO	P	17	24.70	115.15	83.2	-0.356
LADO	S	17	48.76	115.15	83.2	0.395
CNDF	P	17	26.56	129.81	172.5	0.410
CNDF	S	17	50.52	129.81	172.5	0.264

15 141223 1752 29.1 - Catena del Pollino
 Lat: 39.88 Lon: 16.42 Prof: 2.2 Km
 ± 0.67 km ± 0.93 km ± 2.1 km
 RMS: 0.46s GAP: 137.4° NR: 19

STN	PHASE	MN	SEC	DIST	AZM	RES
MMNA	P	52	34.47	22.67	261.5	0.198
MMNA	S	52	37.34	22.67	261.5	-0.648
TDS	P	52	35.21	26.59	195.8	0.184
TDS	S	52	38.72	26.59	195.8	-0.574
ROI	P	52	37.60	37.47	160.2	0.194
ROI	S	52	43.18	37.47	160.2	-0.240
CUP2	P	52	41.24	57.24	169.0	0.760
CUP2	S	52	48.06	57.24	169.0	-0.681

16 141223 2100 27.6 - Alto Tirreno Cosentino
 Lat: 39.89 Lon: 16.12 Prof: 5.6 Km
 ± 0.82 km ± 0.74 km ± 2.2 km
 RMS: 0.48s GAP: 100.6° NR: 20

STN	PHASE	MN	SEC	DIST	AZM	RES
MMNA	P	00	29.76	4.79	135.4	0.412
MMNA	S	00	31.29	4.79	135.4	0.665
MMN	P	00	30.41	11.13	270.4	-0.053
MMN	S	00	32.09	11.13	270.4	-0.461
TDS	P	00	34.84	31.64	144.1	0.913
TDS	S	00	38.69	31.64	144.1	0.121
CET2	P	00	35.58	42.59	199.7	-0.552
CET2	S	00	41.66	42.59	199.7	-0.720
ROI	P	00	37.99	52.24	132.5	0.092
ROI	S	00	45.15	52.24	132.5	-0.293

17 141224 0659 17.2 - Catena del Pollino
 Lat: 39.87 Lon: 16.19 Prof: 6.6 Km
 ± 0.56 km ± 0.70 km ± 1.7 km
 RMS: 0.38s GAP: 63.0° NR: 18

STN	PHASE	MN	SEC	DIST	AZM	RES
MMNA	P	59	19.29	3.35	240.5	0.240
MMNA	S	59	20.33	3.35	240.5	-0.017
TDS	P	59	22.45	26.84	152.8	-0.238
TDS	S	59	26.90	26.84	152.8	0.250
CET2	P	59	25.48	43.55	208.3	-0.364
CET2	S	59	31.21	43.55	208.3	-0.905

18 141224 0837 27.7 - Bacino di Paola
 Lat: 38.74 Lon: 15.70 Prof: 157.0 Km
 ± 2.03 km ± 6.20 km ± 4.1 km
 RMS: 0.49s GAP: 143.5° NR: 15

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	37	51.70	89.58	14.2	0.314
CET2	S	38	9.60	89.58	14.2	0.856

19 141224 1913 05.7 - Bacino di Gioia
 Lat: 38.36 Lon: 15.46 Prof: 117.6 Km
 ± 1.31 km ± 1.50 km ± 3.3 km
 RMS: 0.41s GAP: 64.0° NR: 41

STN	PHASE	MN	SEC	DIST	AZM	RES
CNDF	P	13	24.11	52.68	140.1	0.366
CNDF	S	13	37.52	52.68	140.1	0.620
VBL2	P	13	24.78	65.39	58.7	0.027
VBL2	S	13	38.49	65.39	58.7	-0.154
SMIN	P	13	26.70	94.40	44.7	-0.281
SMIN	S	13	41.78	94.40	44.7	-0.728
CET2	P	13	30.68	135.82	18.4	0.798
CET2	S	13	47.85	135.82	18.4	0.325
CUP2	P	13	32.52	146.76	39.8	0.696
CUP2	S	13	51.41	146.76	39.8	0.517

20 141224 1946 24.3 - Bacino di Gioia
 Lat: 38.55 Lon: 15.50 Prof: 240.9 Km
 ± 2.33 km ± 3.59 km ± 3.1 km
 RMS: 0.37s GAP: 72.6° NR: 41

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	46	56.91	78.64	53.8	-0.514
SMIN	S	47	21.95	78.64	53.8	0.283
CNDF	P	46	57.32	68.46	153.2	0.381
CNDF	S	47	20.35	68.46	153.2	-0.476
CET2	P	46	58.36	115.33	20.3	-0.073
CET2	S	47	23.63	115.33	20.3	0.219
CSC2	P	46	58.53	104.68	39.1	-0.026
CSC2	S	47	23.38	104.68	39.1	-0.247
MC32	P	46	59.40	119.07	42.6	0.026
MC32	S	47	25.50	119.07	42.6	0.458
CUP2	P	47	0.42	129.47	44.7	0.473
CUP2	S	47	25.15	129.47	44.7	-0.891
ROI	P	47	0.93	146.19	39.4	-0.042
ROI	S	47	27.74	146.19	39.4	-0.069

21 141224 2143 55.9 - Piana batiale del Tirreno
 Lat: 39.20 Lon: 15.33 Prof: 271.4 Km
 ± 2.59 km ± 3.45 km ± 3.9 km
 RMS: 0.46s GAP: 119.3° NR: 37

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	43	31.23	64.31	56.4	0.069
CET2	S	43	56.98	64.31	56.4	0.040
SMIN	P	43	31.68	81.38	108.7	-0.775
SMIN	S	44	-0.21	81.38	108.7	0.590
MMNA	P	43	33.93	101.53	44.6	0.323
MMNA	S	44	1.47	101.53	44.6	0.283
CUP2	P	43	34.02	106.44	79.5	0.563
CUP2	S	44	0.25	106.44	79.5	-0.682
ROI	P	43	34.32	113.80	69.2	0.551
ROI	S	44	1.66	113.80	69.2	0.197
LADO	P	43	35.03	142.15	86.5	-0.072
LADO	S	44	3.38	142.15	86.5	-0.395
CNDF	P	43	35.45	140.90	161.6	0.174

SMIN	S	04	25.58	81.69	48.2	-0.919
CET2	P	04	13.16	122.07	17.8	0.533
CET2	S	04	31.02	122.07	17.8	0.472
MC32	P	04	13.64	123.45	39.2	0.139
MC32	S	04	32.86	123.45	39.2	0.798
TDS	P	04	15.44	148.37	28.3	-0.432
TDS	S	04	35.51	148.37	28.3	-0.659
ROI	P	04	16.92	150.92	36.7	0.900
ROI	S	04	36.34	150.92	36.7	-0.085

32 141227 0235 42.7 - Bacino di Gioia
 Lat: 38.40 Lon: 15.38 Prof: 112.1 Km
 ± 1.61 km ± 2.64 km ± 3.5 km
 RMS: 0.42s GAP: 186.4° NR: 22

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	36	1.36	69.81	65.3	0.034
VBL2	S	36	14.08	69.81	65.3	-0.833
CET2	P	36	7.20	133.96	22.1	0.989
CET2	S	36	23.32	133.96	22.1	-0.052

33 141227 0536 48.8 - Catena Costiera
 Lat: 39.40 Lon: 16.09 Prof: 14.1 Km
 ± 1.23 km ± 1.13 km ± 1.7 km
 RMS: 0.30s GAP: 174.0° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	36	53.33	18.30	320.2	0.085
CET2	S	36	56.16	18.30	320.2	-0.323

34 141227 1507 13.9 - Bacino di Gioia
 Lat: 38.72 Lon: 15.70 Prof: 99.6 Km
 ± 0.64 km ± 0.96 km ± 3.4 km
 RMS: 0.43s GAP: 68.6° NR: 00

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	07	29.10	35.83	100.1	0.092
VBL2	S	07	39.82	35.83	100.1	-0.203
SMIN	P	07	29.82	53.10	59.5	-0.195
SMIN	S	07	41.08	53.10	59.5	-0.685
SCOI	P	07	31.72	78.58	37.8	-0.172
SCOI	S	07	44.40	78.58	37.8	-0.616
CSC2	P	07	31.76	78.39	38.0	-0.121
CSC2	S	07	44.46	78.39	38.0	-0.540
CNDF	P	07	32.50	81.69	170.7	0.535
CNDF	S	07	45.74	81.69	170.7	0.595
CET2	P	07	32.91	91.43	14.1	0.569
CET2	S	07	46.06	91.43	14.1	0.264
MC32	P	07	33.25	92.73	42.7	0.097
MC32	S	07	47.18	92.73	42.7	-0.020
CUP2	P	07	34.73	103.16	45.3	0.622
CUP2	S	07	49.19	103.16	45.3	0.336
TDS	P	07	35.26	116.96	28.1	-0.334
TDS	S	07	50.81	116.96	28.1	-0.619
LADO	P	07	36.26	126.63	60.8	0.024
LADO	S	07	52.07	126.63	60.8	-0.473
ROI	P	07	36.43	119.89	38.8	0.578
ROI	S	07	52.80	119.89	38.8	0.926
MMNA	P	07	37.34	131.60	17.7	-0.177
MMNA	S	07	54.61	131.60	17.7	-0.150

35 141227 2138 30.7 - Marchesato
 Lat: 39.17 Lon: 16.96 Prof: 12.4 Km
 ± 0.70 km ± 1.00 km ± 1.8 km
 RMS: 0.32s GAP: 224.3° NR: 19

STN	PHASE	MN	SEC	DIST	AZM	RES
LADO	P	38	34.21	12.51	5.7	0.103
LADO	S	38	36.68	12.51	5.7	0.141
CUP2	P	38	38.96	42.86	302.9	-0.009
CUP2	S	38	45.83	42.86	302.9	0.868
ROI	P	38	41.03	55.91	322.2	-0.344
ROI	S	38	49.26	55.91	322.2	0.130
SMIN	P	38	43.14	67.37	250.6	0.113
SMIN	S	38	52.43	67.37	250.6	0.442

36 141228 0002 24.3 - Canyon di Stromboli
 Lat: 38.33 Lon: 15.19 Prof: 107.8 Km
 ± 0.99 km ± 1.01 km ± 2.0 km
 RMS: 0.25s GAP: 118.2° NR: 31

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	02	46.31	114.33	52.3	-0.312
SMIN	S	03	2.74	114.33	52.3	-0.194

37 141228 0608 30.2 - Vallo di Diano
 Lat: 40.29 Lon: 16.00 Prof: 19.6 Km
 ± 0.57 km ± 0.61 km ± 2.8 km
 RMS: 0.48s GAP: 61.9° NR: 41

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	08	46.11	85.44	183.1	0.342
ROI	P	08	46.96	93.88	149.1	-0.586
SCOI	P	08	50.88	113.97	169.2	0.269
SCOI	S	09	6.18	113.97	169.2	0.687
CSC2	P	08	50.93	114.32	169.2	0.255
CSC2	S	09	5.44	114.32	169.2	-0.165
CUP2	P	08	51.06	111.60	155.4	0.723
LADO	P	08	54.65	140.07	143.3	0.482
SMIN	P	08	56.34	148.28	172.7	0.383
SMIN	S	09	15.16	148.28	172.7	0.408
VBL2	P	08	59.08	180.47	177.3	-0.991

38 141228 2143 37.7 - Sila Grande
 Lat: 39.28 Lon: 16.34 Prof: 13.5 Km
 ± 0.41 km ± 0.62 km ± 2.8 km
 RMS: 0.48s GAP: 42.8° NR: 55

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	43	40.78	9.90	46.4	-0.296
MC32	S	43	42.83	9.90	46.4	-0.689
SCOI	P	43	41.28	7.55	275.6	0.639
SCOI	S	43	43.07	7.55	275.6	0.306
CSC2	P	43	41.33	7.41	273.2	0.689
CSC2	S	43	43.39	7.41	273.2	0.632
CUP2	P	43	42.82	20.89	57.4	0.353
CUP2	S	43	45.49	20.89	57.4	-0.432
ROI	P	43	45.03	37.53	31.0	-0.208
ROI	S	43	50.71	37.53	31.0	-0.016
SMIN	P	43	45.24	35.79	196.2	0.530
SMIN	S	43	50.14	35.79	196.2	0.328
TDS	P	43	45.45	41.84	359.2	-0.208
TDS	S	43	51.10	41.84	359.2	-0.355
CET2	P	43	46.26	43.24	309.3	0.125
CET2	S	43	52.20	43.24	309.3	-0.078
LADO	P	43	47.64	54.85	89.6	-0.234
LADO	S	43	56.03	54.85	89.6	0.740
VBL2	P	43	51.24	70.60	196.8	0.687
VBL2	S	44	-0.39	70.60	196.8	-0.330
CNDF	P	44	2.56	148.19	196.7	-0.969
CNDF	S	44	22.98	148.19	196.7	0.575
MMN9	P	43	50.97	72.18	339.6	0.073
MMN9	S	44	0.11	72.18	339.6	-0.413
MMN	P	43	51.11	74.03	335.9	-0.077
MMN	S	44	0.94	74.03	335.9	-0.090

39 141228 2146 21.6 - Sila Grande
 Lat: 39.28 Lon: 16.42 Prof: 25.5 Km
 ± 0.48 km ± 0.61 km ± 2.7 km
 RMS: 0.41s GAP: 39.4° NR: 48

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	46	25.88	6.92	4.4	-0.764
MC32	S	46	29.79	6.92	4.4	-0.517
SCOI	P	46	26.82	14.18	273.3	-0.080
SCOI	S	46	30.64	14.18	273.3	-0.105
CUP2	P	46	27.14	15.75	44.1	-0.084
CUP2	S	46	32.00	15.75	44.1	0.692
CSC2	P	46	27.45	14.04	272.0	0.556
CSC2	S	46	30.80	14.04	272.0	0.057
ROI	P	46	29.55	34.64	21.5	-0.002
ROI	S	46	35.30	34.64	21.5	-0.037
SMIN	P	46	30.07	38.11	205.8	0.207
SMIN	S	46	35.39	38.11	205.8	-0.487
TDS	P	46	30.10	42.53	350.2	-0.356
TDS	S	46	37.04	42.53	350.2	0.132
CET2	P	46	31.12	48.60	304.4	-0.015
CET2	S	46	38.18	48.60	304.4	0.103
LADO	P	46	31.16	48.21	89.4	-0.174
LADO	S	46	38.86	48.21	89.4	0.441
MMN9	P	46	35.88	74.82	334.9	0.253

MMN9 S 46 46.75 74.82 334.9 0.886
 VBL2 P 46 36.00 72.73 201.8 0.778
 VBL2 S 46 45.22 72.73 201.8 0.060
 MMN P 46 36.11 77.04 331.4 0.155
 MMN S 46 47.34 77.04 331.4 0.908

40 141228 2151 01.4 - Sila Grande
 Lat: 39.29 Lon: 16.42 Prof: 21.7 Km
 ± 0.56 km ± 0.52 km ± 2.0 km
 RMS: 0.35s GAP: 62.9° NR: 31

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	51	5.51	5.40	5.5	-0.258
MC32	S	51	8.89	5.40	5.5	-0.030
CSC2	P	51	6.39	14.09	265.8	0.230
CSC2	S	51	9.75	14.09	265.8	0.146
SCOI	P	51	6.41	14.19	267.1	0.244
SCOI	S	51	9.70	14.19	267.1	0.096
CUP2	P	51	6.79	14.69	48.2	0.394
CUP2	S	51	10.36	14.69	48.2	0.350
ROI	P	51	8.70	33.23	22.5	-0.115
ROI	S	51	13.34	33.23	22.5	-0.871
SMIN	P	51	9.39	39.49	204.9	-0.173
SMIN	S	51	14.89	39.49	204.9	-0.608
TDS	P	51	9.81	41.03	349.8	0.063
CET2	P	51	10.63	47.78	302.9	-0.262
CET2	S	51	17.28	47.78	302.9	-0.522
LADO	P	51	10.71	48.20	91.2	-0.198
LADO	S	51	18.49	48.20	91.2	0.663
MMN	P	51	15.21	75.72	330.8	-0.261
MMN	S	51	26.38	75.72	330.8	0.650

41 141228 2154 55.4 - Sila Grande
 Lat: 39.28 Lon: 16.35 Prof: 14.7 Km
 ± 0.47 km ± 0.52 km ± 2.1 km
 RMS: 0.37s GAP: 47.5° NR: 33

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	54	58.45	9.26	40.1	-0.490
MC32	S	55	0.59	9.26	40.1	-0.870
CSC2	P	54	59.06	8.62	274.4	0.383
CSC2	S	55	0.92	8.62	274.4	-0.085
SCOI	P	54	59.07	8.77	276.5	0.385
SCOI	S	55	1.17	8.77	276.5	0.156
CUP2	P	55	0.49	20.03	55.0	0.279
CUP2	S	55	3.89	20.03	55.0	0.228
SMIN	P	55	2.92	35.91	198.1	0.367
SMIN	S	55	7.64	35.91	198.1	-0.078
ROI	P	55	3.01	37.14	29.3	0.018
ROI	S	55	8.34	37.14	29.3	-0.136
TDS	P	55	3.24	42.12	357.6	-0.279
TDS	S	55	9.14	42.12	357.6	-0.253
CET2	P	55	4.22	44.33	308.5	0.097
CET2	S	55	9.85	44.33	308.5	-0.581
LADO	P	55	5.18	53.65	89.3	-0.294
LADO	S	55	13.51	53.65	89.3	0.732
MMN	P	55	9.21	74.75	335.1	0.111
MMN	S	55	19.16	74.75	335.1	0.109
MMN9	P	55	9.43	72.84	338.8	0.632
MMN9	S	55	18.07	72.84	338.8	-0.461

42 141228 2155 45.8 - Sila Grande
 Lat: 39.32 Lon: 16.34 Prof: 8.1 Km
 ± 1.73 km ± 1.67 km ± 2.9 km
 RMS: 0.50s GAP: 154.3° NR: 10

STN	PHASE	MN	SEC	DIST	AZM	RES
SCOI	P	55	48.00	8.57	241.1	-0.150
SCOI	S	55	49.99	8.57	241.1	0.165
CSC2	P	55	48.03	8.63	238.8	-0.134
CSC2	S	55	50.02	8.63	238.8	0.169
CUP2	P	55	49.59	18.73	70.2	-0.247
CUP2	S	55	53.06	18.73	70.2	0.307
ROI	P	55	52.27	33.44	35.4	-0.206
ROI	S	55	57.52	33.44	35.4	0.198
SMIN	P	55	54.20	40.50	194.2	0.793
SMIN	S	55	57.99	40.50	194.2	-0.944

43 141228 2200 48.6 - Sila Piccola
 Lat: 39.13 Lon: 16.61 Prof: 20.9 Km
 ± 0.82 km ± 0.76 km ± 2.6 km
 RMS: 0.45s GAP: 83.1° NR: 29

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	00	54.63	28.40	324.2	-0.535
MC32	S	01	-0.46	28.40	324.2	-0.411
CUP2	P	00	55.18	28.14	347.4	0.072
CUP2	S	01	-0.18	28.14	347.4	-0.033
CSC2	P	00	55.95	35.32	298.1	-0.053
CSC2	S	01	1.61	35.32	298.1	0.207
LADO	P	00	56.05	35.25	61.8	0.030
LADO	S	01	2.27	35.25	61.8	0.853
SMIN	P	00	56.39	38.30	241.7	-0.107
SMIN	S	01	2.39	38.30	241.7	0.136
SCOI	P	00	56.67	35.59	298.5	0.633
SCOI	S	01	1.74	35.59	298.5	0.283
ROI	P	00	58.34	48.58	354.8	-0.004
ROI	S	01	6.21	48.58	354.8	0.752
TDS	P	01	-0.24	62.96	337.2	-0.646
CET2	P	01	1.76	71.95	307.3	0.098
CET2	S	01	11.53	71.95	307.3	0.337
MMN	P	01	6.92	99.69	327.2	0.266
MMN	S	01	20.65	99.69	327.2	0.801

44 141228 2249 55.4 - Sila Grande
 Lat: 39.29 Lon: 16.36 Prof: 12.8 Km
 ± 0.42 km ± 0.51 km ± 2.3 km
 RMS: 0.40s GAP: 43.2° NR: 43

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	49	58.18	7.82	41.2	-0.302
MC32	S	50	0.09	7.82	41.2	-0.617
SCOI	P	49	58.77	9.53	268.7	0.334
SCOI	S	50	0.80	9.53	268.7	0.175
CSC2	P	49	58.79	9.42	266.7	0.354
CSC2	S	50	0.85	9.42	266.7	0.229
CUP2	P	50	0.24	18.68	56.6	0.457
CUP2	S	50	3.64	18.68	56.6	0.680
ROI	P	50	2.50	35.70	29.1	-0.105
ROI	S	50	7.81	35.70	29.1	-0.032
SMIN	P	50	2.83	37.30	198.7	0.200
SMIN	S	50	7.83	37.30	198.7	-0.056
TDS	P	50	2.88	40.97	356.4	-0.306
TDS	S	50	8.24	40.97	356.4	-0.613
CET2	P	50	3.82	44.24	306.7	-0.158
CET2	S	50	9.67	44.24	306.7	-0.551
LADO	P	50	5.04	52.83	90.6	-0.176
LADO	S	50	12.89	52.83	90.6	0.525
VBL2	P	50	8.68	72.11	198.1	0.182
VBL2	S	50	17.43	72.11	198.1	-0.621
MMN	P	50	8.75	74.02	334.1	-0.122
MMN	S	50	18.61	74.02	334.1	-0.089
MMN9	P	50	9.05	72.03	337.8	0.490
MMN9	S	50	18.98	72.03	337.8	0.832

45 141228 2256 57.9 - Sila Grande
 Lat: 39.28 Lon: 16.38 Prof: 5.7 Km
 ± 4.95 km ± 2.56 km ± 3.4 km
 RMS: 0.59s GAP: 219.4° NR: 6

STN	PHASE	MN	SEC	DIST	AZM	RES
CSC2	P	56	0.10	10.59	271.7	-0.211
CSC2	S	56	2.30	10.59	271.7	0.244
CUP2	P	56	1.37	18.22	52.3	-0.341
CUP2	S	56	4.88	18.22	52.3	0.397
ROI	P	56	5.50	35.90	26.7	0.551
ROI	S	56	9.45	35.90	26.7	-0.637

46 141229 0512 29.5 - Sila Grande
 Lat: 39.36 Lon: 16.33 Prof: 0.0 Km
 ± 1.36 km ± 1.03 km ± 2.0 km
 RMS: 0.44s GAP: 183.0° NR: 8

STN	PHASE	MN	SEC	DIST	AZM	RES
MC32	P	12	31.20	8.44	105.0	-0.215
MC32	S	12	33.17	8.44	105.0	0.364
SCOI	P	12	31.87	10.54	218.3	0.011
SCOI	S	12	33.85	10.54	218.3	0.276

CUP2	P	12	33.40	18.72	83.2	-0.284
CUP2	S	12	36.89	18.72	83.2	0.153
ROI	P	12	35.79	30.80	41.3	-0.341
ROI	S	12	41.84	30.80	41.3	0.866

47 141230 1252 14.2 - G. di Policastro
 Lat: 39.84 Lon: 15.44 Prof: 5.0 Km
 ± 0.98 km ± 1.43 km ± 1.9 km
 RMS: 0.43s GAP: 161.6° NR: 15

STN	PHASE	MN	SEC	DIST	AZM	RES
CET2	P	52	24.80	56.31	129.5	0.386
CET2	S	52	31.96	56.31	129.5	0.097

48 141230 2340 14.4 - Bacino di Gioia
 Lat: 38.46 Lon: 15.83 Prof: 17.2 Km
 ± 0.40 km ± 0.64 km ± 1.4 km
 RMS: 0.24s GAP: 73.1° NR: 20

STN	PHASE	MN	SEC	DIST	AZM	RES
VBL2	P	40	21.32	33.25	45.7	0.099
VBL2	S	40	26.06	33.25	45.7	-0.143

49 141231 0114 58.7 - Bacino di Paola
 Lat: 38.92 Lon: 15.74 Prof: 165.3 Km
 ± 1.35 km ± 2.23 km ± 2.7 km
 RMS: 0.32s GAP: 167.4° NR: 34

STN	PHASE	MN	SEC	DIST	AZM	RES
SMIN	P	14	21.63	42.59	83.3	-0.185
SMIN	S	14	38.26	42.59	83.3	-0.412
VBL2	P	14	21.76	42.54	131.6	-0.059
VBL2	S	14	38.31	42.54	131.6	-0.368
ROG2	P	14	22.38	57.85	61.3	-0.038
ROG2	S	14	39.44	57.85	61.3	-0.276
CET2	P	14	22.75	69.31	15.7	0.479
CET2	S	14	40.16	69.31	15.7	0.700