Regional macroseismic field of the 1980 Irpinia earthquake

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RIASSUNTO

E presentata un'analisi del campo macrosismico del terremoto irpino del 1980 che, per magnitudo ed estensione dell'area interessata, risulta il maggiore evento sismico verificatosi in Italia negli ultimi cinquanta anni.

L'insieme dei dati ottenuti mediante indagini dirette e/o a mezzo scheda macrosismica consente la definizione dell'intensità sismica in 1286 centri abitati di 13 regioni.

Il campo regionale confrontato con i modelli di Blake (Y = 5.0), risulta compatibile con i seguenti parametri focali:

$I_0 = \text{MSK} ; \phi_0 = 40.86 \text{N} ; \delta_0 = 15.25 \text{E} ;

h = 9.99 \pm 0.5 \text{MSK} ; h = 15 \text{Km.}$

L'anisotropia del campo regionale è analizzata mediante la determinazione dell'attenuazione azimutale (a.az) i cui valori estremi risultano 2.0-10° e 3.9-10°, rispettivamente lungo le direzioni NNW e SW.

L'area mesosismica risulta caratterizzata principalmente da domini strutturali, rilevati con il metodo shadow, con direzione appenninica (NW-SE), antiappenninica e meridiana (N-S).

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Un modello per la sorgente sismica è stato elaborato secondo la metodologia di Shebalin. I relativi valori dei parametri risultano:

- $l_x = 14 \text{ Km}$; $A_z = 128^\circ \text{ E}$
- $l_x = 56 \text{ Km}$; $\phi = 61^\circ$ (dip SW)
- $l_z = 13.5 \text{ Km}$; $S$; $D = 782 \text{ Km}$

L'azimuth della sezione longitudinale della sorgente ($128^\circ \text{ E}$) risulta molto prossimo a quello di strike del piano di faglia proposto da vari autori nella soluzione del meccanismo focale; l'estensione longitudinale ed il relativo modesto sviluppo verticale sono considerati nel contesto del quadro geo-sismotettonico della regione irpina. L'angolo d'immersione (dip $61^\circ$ SW) è invece discordante con quello generalmente proposto nella soluzione del meccanismo focale.

**Abstract**

This paper sets forth an analysis of the macroseismic field of the Irpinia earthquake of 1980, which, by its magnitude and extent in the affected area, makes it the largest seismic event happening in Italy in the last 50 years.

The data was collected by means either of direct inquiry or by macroseismic card, or by both these methods, and allows us to give a definition of seismic intensity, in altogether 1286 inhabited centres, in 13 different regions.

The field, when compared to Blake's model ($Y = 5.0$), gives results compatible with the following focal parameters:

- $I_0 = X^\circ \text{ MSK}$; $\phi_0 = 40.86^\circ$ N; $X_u = 15.25^\circ$ E;
- $I_{oc} = 9.99 \pm 0.5 \text{ MSK}$; $h_n = 15 \text{ Km}$.

The anisotropy of the field was analysed by means of a reckoning of the azimuthal attenuation to be of the intensity of $(\alpha_z)$, the extreme values of which give the result $2.0 \times 10^{-3}$ and $3.9 \times 10^{-3}$, in directions respectively NNW and SW.

The mesoseismic area showed itself to be principally characterised by structural domains, brought out by the shadow method, following either the direction of the Apennines (NW-SE), going across the Apennines, or taking a meridional direction (N-S).
The azimuth of the longitudinal section of the source (128° E) turns out to be very close to the strike azimuth of the fault plane proposed by various authors searching for a solution to the focal mechanism; the longitudinal extension and the relatively modest vertical development of the source are justifiable in the context of the geo-seismotectonic scheme of the Irpinia region. The angle of dip (61° SW), on the other hand, is in contrast to that generally proposed in research into the solution for the focal mechanism.

1. - INTRODUCTION

At 1930 hours local time on the evening of 23rd November 1980 a period of intense seismic activity began with a catastrophic main shock of magnitude 6.5, the intensity of which has been estimated as X MSK. The worst hit area was the area lying between the localities of Castelnuovo di Conza, Conza della Campania, Laviano, Lioni, Sant'Angelo dei Lombardi and Santomenna. The first reports received from the region were both dramatic and contradictory.

The Istituto Nazionale di Geofisica decided upon the immediate despatch of microseismic and macroseismic survey teams to the area in order to install a local array to record seismic events and to carry out on-the-spot investigation and measurement. A coordination centre of the Italian Geodynamical Project — CNR (P.F.G. - CNR) was rapidly set up in Naples with the task of coordinating collaboration between the various researchers that had been called in. In view of the enormous size of the disaster area it was decided to give each of the specially created geological, technical, and macroseismic survey teams a well-defined zone to work in.
Andretta. The Messina University — Catania CNR group was assigned the macroseismic survey of the upper Sele valley in the eastern Basilicata, Calabria and Sicily. The above locations were visited and studied by the authors also for seismic microzoning purposes. The data on which to base a more accurate macroseismic study of the phenomenon were extracted from the information gathered during the surveys. In order to trace out as accurate as possible a macroseismic field of this tragic event, the survey was completed by means of the analytical processing of some 1,300 questionnaires (*) received by the Istituto Nazionale di Geofisica from all over Italy, as well as of the data collected by the macroseismic group of the Italian Geodynamical Project as a whole.

The present study may be considered of particular interest owing to the great mass of data used and the direct and indirect acquisition techniques used by the authors. Together with the fact the earthquake of 23-11-80 was the greatest seismic event as far as magnitude and area affected to have occurred in Italy in the last fifty years, these elements make the study of great significance.

2. - HISTORICAL EARTHQUAKES IN THE IRPINIA AREA

The huge Irpinia disaster area affected by the period of seismic activity beginning on 23-11-1980 is much the same as that which had been the scene of numerous terrible earthquakes in previous centuries. A total of the latter number of earthquakes involved only those with $I_a = VIII$ have been assessed.

The epicentral data and the dates of the earthquakes prior to 1000 were taken from the Seismic Catalogue and Macroseismic Atlas of the ING (CSN - National Seismic Catalogue). For those after the year 1000 some were taken from the ENEL Seismic Catalogue (1975), others from our own surveys. Maps have been made for all major events (see tab. 1) causing damage, death or injury in localities hit by the same earthquake inside the area lying within a radius of 80 km from a central point located at

(*) Compiled by the operators of Arma Generale dei Carabinieri in accordance with the 1979 agreement with Istituto Nazionale di Geofisica, Rome.
TABLE 1  
LIST OF STRONG HISTORICAL SEISMIC EVENTS IN THE IRPINIA AREA UNTIL 31-12-1980  

| Year | M  | D   | Epicentre | Intensity | Localities | Isoseismals |
|------|----|-----|-----------|-----------|------------|-------------|
| 63   | 0  | FEB | 40.7N 14.5E | IX-X      | Pompei     |             |
| 300  | 0  | —   | 40.9N 15.7E | VIII-IX   | Vulture    |             |
| 369  | 0  | APR | 41.0N 15.0E | IX-X      | Campania   |             |
| 990  | 0  | OCT | 41.0N 14.8E | IX-X      | Benevento  |             |
| 1125 | 0  | OCT | 41.2N 14.8E | X         | Beneventano|             |
| 1180 | 0  | —   | 41.2N 15.1E | X         | Irpinia    |             |
| 76   | 0  | DEC | 40.3N 15.5E | XI        | Regno di Napoli | Baratta, 1901 |
| 1550 | 0  | AUG | 40.3N 15.6E | IX        | Vallo di Diano | Serva, 1981 a |
| 1561 | 0  | JUL | 40.3N 15.6E | IX        | Vallo di Diano | Serva, 1981 b |
| 1654 | 0  | SEP | 40.8N 15.7E | IX        | Atelella    |             |
| 1688 | 0  | JUL | 41.2N 14.9E | X-XI      | Beneventano | Serva, 1981 a |
| 1702 | 0  | MAR | 41.2N 14.8E | IX        | Beneventano | Serba, 1981 |
| 1732 | 0  | NOV | 41.2N 15.1E | X         | Irpinia    |             |
| 1826 | 0  | FEB | 40.6N 15.7E | IX        | Basilicata |             |
| 1851 | 0  | AUG | 41.0N 17.7E | XXI       | Vulturae-Potentiae | Marcelli et al., 1979 |
| 1853 | 0  | APR | 40.8N 15.2E | VIII-IX   | Avellinese |             |
| 1857 | 0  | DEC | 40.3N 15.9E | X         | Basilicata |             |
| 1903 | 0  | MAY | 41.0N 14.7E | VIII      | Beneventano | Branino et al., 1981 |
| 1910 | 0  | JIU | 40.9N 15.5E | IX-X      | Avellinese |             |
| 1930 | 0  | JUL | 41.1N 15.4E | X         | Irpinia    |             |
| 1962 | 0  | AUG | 40.3N 15.1E | VIII-IX   | (9:0:20)   | (ATLAS-P.F.G., in press) |
| 1980 | 0  | NOV | 40.8N 15.4E | X         | Irpinia    | Bottari et al. (in the present paper) |
Furthermore, the earthquake under consideration set off very intense seismic activity lasting several months and with shocks of up to VII-VIII in intensity.

For the purpose of a more accurate interpretation of the event under examination within the framework of the seismicity of the Irpinia area, the macroseismic fields of three historical earthquakes have also been given. These are of great interest for the purposes of comparison, also in view of the recent critical review made of them by authors (figs. 2, 3, 4).

**FIG. 1** - Map of epicentres of historical earthquakes (Marcelli L., January 1981, internal report).

### 5. DEFINITION OF THE MACROSEISMIC FIELD

#### 5.1. Representation criteria

The total data obtained either directly under the macroseismic questionnaire have allowed a matrix to be defined for a
Fig. 2 - Macroseismic field of the earthquake of 29-11-1732.
(Rosati, G. – Veronese, M. – Di Meo, S. in Atlas-PFG/CNR, in press).

The criteria used in assigning the grade of macroseismic intensity are as follows:

The intensity is not expressed in the form of a range of values but as a single value. It thus follows that plotting the isoseismals these values may be taken as the lower, median or upper limit of the grade in question. In our view, the second criterion makes it possible to plot the isoseismals using the intermediate values which, if specifically observed during the survey, have been plotted in the macroseismic field as intermediate grades (e.g. expressed as 2-3, IV°-V°). On the other hand, this is consistent with the use these Authors (Prochazkova and Karnik, 1978) propose...
and for the MSK scale. Although maintaining the set of points with the intensity observed on the site data, in plotting the isoseismals it is attempted to give a representation of the regional macroseismic field (Bottari and Lo Giudice, 1982). In other words, the points having a lower "weight" and those related to "restricted" anomalies are neglected (Bottari and Lo Giudice, 1981) and the isoseismals are smoothed to characterize the regional pattern, the anisotropy of which is mainly dependent on the geologico-structural characteristics governing the propagation of seismic waves. The "islands" or "apophyses" appear in the plot as "islands of exception".

In accordance with the above criteria the overall regional field has been plotted in fig. 5 (base scale 1:1,000,000). The same field (base scale 1:500,000) is shown in fig. 6, although only for the
Fig. 3 - Macroseismic field of earthquake of 14-8-1851.

(MARCELLI L. - SPADEA M. C. - VECCHI M., 1979).
Fig. 5 - Regional macroseismic field. For symbols, see appendix.
where the mean radii of the isoseismals (equivalent circumferences) over the range $IV_0 \leq I \leq VIII_0$ were used to calculate $R_0$, the values of the area $S$ shown in parentheses refer to the isoseismals whose plot lies partly in the sea.

After correction for an isotropic field the foregoing can be extended to the rather anisotropic regional field. In this case the azimuthal attenuation $a$, is calculated, together with its reciprocal - macroseismic conductivity $p$, in the more significant directions using the following relation (Bottari et al., 1982):

$$p = \frac{1}{a^{1/2}}$$

The macroseismic conductivity values calculated for 16 azimuthal sectors having a width of $22.5^\circ$ are shown in fig. 8 and again in table 2, together with those of the attenuation.

The macroseismic field is characterized here by an NW-SE trend (fig. 5). The $V_0$ and $VI_0$ isoseismals are affected by the source and are seen in particular to run along the Apennines ($X_0$ to $IX_0$). The $VII_0$ and $VIII_0$ isoseismals run to a lesser extent in this direction and to a greater extent in a NNW direction. The direction of maximum propagation of the intensity is apparent as far as the $VI_0$ isoseismal along the Apennines chain. Starting from this isoseismal, which is the last completely outlined, a preferential propagation towards the NW appears (about $15^\circ$ W), which can be followed as far as isoseismal IV_0 along the Apennines chain. Towards the S, despite the incompleteness of the isoseismal plot, the preferential propagation follows the Calabro-Peloritano arc. In the same direction it is possible to define also the limit of the $111^\circ$ area in Sicily, while it cannot be plotted to the N owing to the inadequacy and inconsistency of the available data. The macroseismic field characteristics in the Calabro-Peloritano area allow the correlation between the macroseismic azimuthal attenuation and the field of structural patterns to be verified (Bottari et al., 1982; Bottari et al., in press).

Overall, the macroseismic field displays no significant anomalous areas, except for three small zones — two of which with a negative anomaly in the upper Calore river valley in the $VIII_0$ area (fig. 7) and the third with a positive anomaly inside the $VP$ area on the Sorrento peninsula (fig. 6).
Fig 6 - Macroseismic field (detail). For symbols caption see appendix.
Fig. 7. Mesoseismic field. The symbols caption are uncertain.
TABLE 2

Attenuation ($\Delta Z$) and conductivity ($P$) values for azimuthal Sectors (22°-9) in the intensity range VIII° — IV° MSK

| Sector (Km$^{-1}$) (Km) | N | 23 | ± 172 | 428 | ± 172 |
|-------------------------|---|----|--------|-----|--------|
| NNE                     | 26 | ± 8 | 385    | ± 122 |
| NE                      | 29 | ± 7 | 345    | ± 88  |
| ENE                     | 29 | ± 7 | 345    | ± 103 |
| E                       | 28 | ± 5 | 357    | ± 66  |
| ESE                     | 29 | ± 2 | 345    | ± 24  |
| SE                      | 29 | ± 1 | 345    | ± 12  |
| SSE                     | 25 | ± 9 | 400    | ± 165 |
| S                       | 25 | ± 7 | 400    | ± 122 |
| SSW                     | 32 | ± 8 | 312    | ± 52  |
| SW                      | 39 | ± 9 | 256    | ± 62  |
| WSW                     | 39 | ± 7 | 256    | ± 48  |
| W                       | 37 | ± 6 | 270    | ± 24  |
| WNW                     | 27 | ± 11| 370    | ± 181 |
| NW                      | 22 | ± 10| 455    | ± 298 |
| NNW                     | 20 | ± 9 | 503    | ± 282 |

4. STUDY OF THE SOURCE

In order to define the size of the mesoseismic area in the broad sense the criterion adopted was that of Shebalin (1974) in which the local effect on the field related to the vertical development of the source is analysed. This effect, which is clearly revealed by the plot of the $S / S + 1$ ratio, is restricted to the intensity VIII° and IX° areas (fig. 9, fig. 13). The mesoseismic area shows how the two rose diagrams (fig. 10) of the features detected using the shadow method (Wise et al.,...
Fig. 8 - Rose diagram of 1, referring to VIII°-IV° isoseismals range for 1622°.5 angular sectors. The values have been normalized with respect to the maximum value of 503 determined for the NNW directrix.

Fig. 9 - Plot of function of ratio between isoseismic areas.
1979, is characterized mainly by structural domains with Apennine (NW-SE) and anti-Apennine and southern (N-S) orientation. That the Apennine type domains with regional development predominate is confirmed by the Landsat image survey carried out by us (fig. 11). In reading the relevant rose diagram account must be taken of the fact that the solar illumination (El. 36°, Az. 136°) heavily penalizes the iso-oriented angular sector (of about 30°), and enhances the sectors transversal to the normal one. The domain at N 45° W must thus be considered a first-order maximum.

Shebalin's method (1974) was used for the purposes of source modeling, except in the calculation of $h$ and $\gamma$, for which it was preferred to follow the procedure developed by Bottari et al. (1979).

The barycentres calculated for each isoseismal area is shown in fig. 12. The overall result is a low dispersion which indirectly confirms the reliability of the assigned intensities and the relative isoseismal plots. In particular, the good agreement of the barycentres in both the Xo and IXo and the VIII and VIIo intensity areas, which are defined by isoseismals governed wholly by observed intensities, allows a reliable determination to be made for $Xo$ and $Eo$. As can be seen in fig. 13, they can both be associated with two well-defined plots of the function $f(A)$. The focal depth of the surface portion (Shebalin, 1974) calculated for the isoseismals of intensities Xo and IXo using the method previously used for the normal depth is

$A = 6 \, \text{Km}$

A plan view and longitudinal and cross sections of the source model are shown in fig. 14. The relative parameter values have been estimated graphically, and compared with values derived from Shebalin's relations (1974):

$\Delta = V_{max} - V_{min} = 14 \, \text{Km}$

$A = n \times 10^{-3} \times \Delta \times 10^{6} \, \text{Km}$

$A = n \times 10^{-3} \times \Delta \times 10^{6} \, \text{Km}$

$\Delta = V_{max} - V_{min} = 56 \, \text{Km}$

$\Delta = V_{max} - V_{min} = 56 \, \text{Km}$
log $L_\text{max} = 0.7 M - 2.8 = 1.75$ for $M = 6.5$
then $L_\text{max} = 30 \text{ km}$

$log L_z = 0.1 M - 0.4 = 0.35$ for $M = 6.5$
then $L_z = 3 \text{ km}$

$log S_{OC} = M - 3.6 = 2.9$ from which $S_{OC} = 795 \text{ km}^2$
the supermetric rigidity

$Q = M - log S_{OC} = 3.61$
classifies the seismic event as a «normal earthquake».

5. Final Considerations

The parameters of the regional macroseismic field presented have confirmed and are consistent with the theoretical and geological considerations. I have also attempted to correlate the macroseismic area with the structural geological framework reported in previous studies (Bottari et al., 1981; Bologni et al., 1982). As shown by the macroseismic fields of the Campano-Lucanian region, particularly those of the historical earthquakes (1732, 1851, and 1930), there is a recurrent correlation between the extension of the macroseismic area and the preferential propagation (the NW-SE direction). For some earthquakes (1732, 1851, and 1930), there is also a secondary preferential propagation.
Fig. 10 - Rose diagrams of "shadow" lineaments (Wiss et al., 1979) in the Irpinia and in the Basilicata area.

Fig. 11 - Lineaments with rose diagrams taken from LANDSAT RBV. Localities: 1) Teora; 2) Liorii; 3) Caposele; 4) Calabritto; 5) Senerchia; 6) Colliano; 7) Oliveto Citra; 8) Contursi Terme; 9) Valva.
This is confirmed in greater detail by the examination made of the central Tyrrhenian area, which reveals a coincidence between the direction to which the maximum area extends (S - SW) and the direction of *The recurrence of this anomaly and particularly of the sickle shaped isoseismals with the concave side pointing towards the west points to the determining role played by the anti-Apennine structures on the Tyrrhenian side as opposed to what is found on the Adriatic side.

Fig. 11: Barycentre distribution trend number for each of the isoseismals (real numbers) in the macroseismic field.

Fig. 12: Barycentre distribution trend number for each of the isoseismals (real numbers) in the macroseismic field.
Fig. 13 - Plot of function $I(A)$ in both directions — longitudinal (NW-SE) and transversal (NE-SW) — of the macroseismic field. The strike direction also appears from the maximum propagation (NWW-SE). This circumstance may be observed up to the VI° isoseismal. From this point on, different preferential directions appear, i.e. NNW to the north and SSE along the Calabro-Peloritano arc in the southern part of the field.

The source characterization completes the picture of our knowledge of the earthquake and lends itself to several considerations. The azimuth of the longitudinal section of the source (N 128° E) has been found to be very close to that of the strike of the fault plane proposed by various authors as the solution to the focal mechanism (Seismometric working group of 23-11-1980, 1981; CUSCITO and PANZA, 1981; GASPARINI C., 1981).
Fig. 14 - Schematic model of source.

1 - Upper crust; 2 - Lower crust with double crust/mantle transition; 3 - Upper/lower crust transition; 4 - Crust/mantle transition (after Colombi et al., 1979); 5 - Plio-quaternary faults: a) on map, b) in sections (after Ortolani and Torre, 1981); 6 - Higher density area of structural linear elements with regional character; 7 - Isoseismal lines; breaking surface of main fault; 8 - Centre and horizontal extension of the upper part of the source; 9 - Centre and horizontal extension of the lower part of the source.
Fig. 15 - Distribution of aftershocks from 23-11-80 until 31-12-80.

The greatest pentagon represents the position of main event. The extension of the source and its comparatively small vertical development seem quite justified by the geoseismotectonic situation prevailing in the Irpinia region. In particular, the lower limit (18.5 — 20 Km) of the source studied coincides with the known depths of the earthquakes occurring in the same region (DE Vivo et al., 1979) and with the transition from the upper crust...
to a lower crust characterized by a double transition in the structure of the crust/mantle (Colombi et al., 1979).

The angle of dip (61° SW) instead is in disagreement with the generally proposed value of approximately 65° NE. However, considering the known complexity and variety of the effects produced on the ground in relation to the possible characteristics of the main macroseismic phenomena, and the presence of both dips (NE and SW) for the emergent faults, the disagreement does not seem to be a significant one. It is however stressed how the solution based on microseismic data provides a satisfactory answer to the lack of a single choice of main fault plane when implied in focal mechanism calculation methods.

Also significant is the fact that the distribution of the aftershocks (figs. 15, 16) is compatible with the macroseismic field and with the source model described.

On the whole, the proposed source model, including also the dip direction, appears to be in good agreement with the macroseismic field and with the main features of the aftershocks' distribution.
Sezione "PERIODO SISMICO IRPINIA - 1980"  
DI ST = 5 0,00 KM  SCALA 1:500000.

| N. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----|---|---|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |   |   |
| 2  |   |   |   |   |   |   |   |   |
| 3  |   |   |   |   |   |   |   |   |
| 4  |   |   |   |   |   |   |   |   |
| 5  |   |   |   |   |   |   |   |   |
| 6  |   |   |   |   |   |   |   |   |
| 7  |   |   |   |   |   |   |   |   |
| 8  |   |   |   |   |   |   |   |   |

Il verticale orientato NW-SE e SW-NE, mostra la distribuzione dei profondità degli eventi.
APPENDIX

LIST OF LOCALITIES

CODE: The numerical list of the localities follows the criteria explained in previous work (BOTTARI-LO GIUDICE. 1982).

GRADE: of the MSK scale

In the list of localities the grades are indicated with the Arabic numerals, the half-grade with the two numbers, and the sign with the two numerals. 

Symbols caption in the maps

W xii Cxi Ox ® ix ® VIII ® VII QV Q III (D II ® F. (felt) Q + V4 graC

Uncertainty:

O - N.F. (not felt)

NOTE: Sources Remarks

G: Data by macroseismic geodynamic Group
M: Macroseismic cards
B: Both (G-M)

MAP: Localities mapped in scale:

1: > 1:200,000
2: > 1:200,000
| CODE | LOCALITY      | GRADE | NOTE | MAP |
|------|---------------|-------|------|-----|
| 001  | FORLÌ         | 3     | M    |     |
| 002  | ARCANGELO DI ROMAGNA | 4 | M    |     |
| 003  | GATTEO        | 3     | M    |     |
| 004  | FERRARA       | 3     | M    |     |
| 005  | COMACCHIO     | 3     | M    |     |
| 006  | CASUMARO      | NI    | M    |     |
| 007  | VIGNOLA       | NF    | M    |     |
| 008  | FELICE S      | NF    | M    |     |
| 009  | REGGIO EMILIA | NF    | M    |     |
| 010  | SCANDIANO     | 3     | M    |     |
| 011  | VILLA MINOZZO | 3     | M    |     |
| 012  | PARMA         | NF    | M    |     |
| 013  | TIZZANA       | 4     | M    |     |
| 014  | RAVENNA       | 3     | M    |     |
| 015  | CONSELICE     | 3     | M    |     |
| 016  | LAVEZZOLA     | 3     | M    |     |
| 017  | BAGNACAVALLO  | 3     | M    |     |
| 018  | BOLOGNA       | 3     | M    |     |
| 019  | MOLINELLA     | 3     | M    |     |
| 020  | IMOLA         | 3     | M    |     |
| 021  | GIOVANNI IN PERSICETO S | 3 | M    |     |
| 022  | AGATA BOLOGNESE S | NF | M    |     |
| 023  | VEZZANO SUL CROSTALO | NF | M    |     |
| 024  | CARPINETI     | NF    | M    |     |
| 025  | CASTELNUOVO NE' MONTI | NF | M    |     |
| 026  | PIACENZA      | NF    | M    |     |
| 027  | FARINI D'OLMO | NF    | M    |     |
| 028  | BOBBIO        | NF    | M    |     |
| 029  | OTTONE        | NF    | M    |     |
| 030  | BORGONAVO VAL TIDONE | NF | M    |     |
| 031  | MONTICELLI D'ONGINA | NI | M    |     |
| CODE | LOCALITY       | CODE | NOTE | ZIP |
|------|---------------|------|------|-----|
| 001  | ISOLA DEL GIGLIO | NF   | M    |     |
| 002  | ROCCASTRADA   | NF   | M    |     |
| 003  | ALBINIA       | 3    | M    |     |
| 004  | CAPALBIO      | NF   | M    |     |
| 005  | MONTIERI      | NF   | M    |     |
| 006  | FIORA S       | NF   | M    |     |
| 007  | ARCIDOSSO     | NF   | M    |     |
| 008  | MONTE PULCIAO | 3    | M    |     |
| 009  | PIAN-CASTAGNAIO | 3   | M    |     |
| 010  | SIENA         | NF   | M    |     |
| 011  | CAPOLONA      | NF   | M    |     |
| 012  |               |      |      |     |
| 013  | SUBBIANO      | NF   | M    |     |
| 014  | CASTIGLION FIORENTINO | NF | M    |     |
| 015  | CORTONA       | 3    | M    |     |
| 016  | VOLTERRA      | NF   | M    |     |
| 017  | LUCCA         | 3    | M    |     |
| 018  | CAPANNORI     | 3    | M    |     |
| 019  | FORNACI DI BARGA | NF | M    |     |
| 020  | FORTE DEI MARMI | NF | M    |     |
| 021  | LIVORNO       | NF   | M    |     |
| 022  | PIOMBINO      | NF   | M    |     |
| 023  | ROSIGNANO SOLVA | 3   | M    |     |
| 024  | CARRARA       | NF   | M    |     |
| 025  | AULLA         | NF   | M    |     |
| 026  | VILLAFRANCA IN LUNIGIANA | NF | M    |     |
| 027  | FIRENZE       | 3    | M    |     |
| 028  | EMPOLI        | 3    | M    |     |
| 029  | MASSA CARRARA | NN   | M    |     |
| 030  | PISTOIA       | NN   | M    |     |
| 031  | PISA          | NN   | M    |     |
| 032  | AREZZO        | NN   | M    |     |
| 033  | GROSSETO      | NN   | M    |     |
| LOCALITY     | CODE | GRADE |
|--------------|-----|-------|
| ACOUVIVA PICENA | 001 |       |
| AGUGLIANO     | 002 |       |
| APIRO (CINGOLI)| 003 |       |
| APPIGNANO     | 004 |       |
| BELFORTE SUL CHIENTI | 005 |       |
| CAMERANO      | 006 |       |
| CAMPOROTONDO DI FIASTRONE | 007 |       |
| CARASSAI      | 008 |       |
| CASTEL COLONNA| 009 |       |
| CASTELFIDARDO | 010 |       |
| CASTORANO     | 011 |       |
| CINGOLI       | 012 |       |
| CIVITANOVA MARCHE | 013 |       |
| COLMURANO     | 014 |       |
| CORINALDO     | 015 |       |
| CORRIDONIA    | 016 |       |
| COSSIGNANO    | 017 |       |
| CUPRA MARITTIMA | 018 |       |
| FILOTTRANO    | 019 |       |
| GROTTAMARE    | 020 |       |
| LORETO        | 021 |       |
| LORO PICENO    | 022 |       |
| MACERATA      | 023 |       |
| MARZOCCA      | 024 |       |
| MASSIGNANO    | 025 |       |
| MOGLIANO      | 026 |       |
| MONSAMPOLO DEL TRONTO | 027 |       |
| MONTALTO MARCHE | 028 |       |
| MONTECASSIANO | 029 |       |
| MONTECOSARO   | 030 |       |
| MONTEDINOVE   | 031 |       |
| MONTEFANO     | 032 |       |
| MONTE LUPONE  | 033 |       |
| MONTEPRANDONE | 034 |       |
| MONTERADO     | 035 |       |
| MONTE S. GIUSTO | 036 |       |
| MONTE S. MARTINO | 037 |       |
| MORROVALLE    | 038 |       |
| NUMANA        | 039 |       |
| OFFAGNA       | 040 |       |
| OFF1DA        | 041 |       |
| OSIMO         | 042 |       |
| PENNA S. GIOVANNI | 043 |       |
| PETRIOLO      | 044 |       |
| POLLENZA      | 045 |       |
| POLVERIGI     | 046 |       |
| PORTO RECANATI | 047 |       |
| PORTO POTENZA PICENA | 048 |       |
| POTENZA PICENA | 049 |       |
| RECANATI      | 050 |       |
| RIPATRANSONE  | 051 |       |
| RIPE          | 052 |       |
| RIPE S. GINESIO | 053 |       |
| SIROLO        | 054 |       |
| SPINETOLI     | 055 |       |
| S. ANGELO IN PONTANO | 056 |       |
| S. BENEDETTO DEL TRONTO | 057 |       |
| TOLENTINO     | 058 |       |
| TREIA         | 059 |       |
| CODE | LOCALITY       | GRADE | NOTE | MAP |
|------|----------------|-------|------|-----|
| 060  | URBISAGLIA     |       |      |     |
| 061  | PINOCCHIO      |       |      |     |
| 062  | FABRIANO       |       |      |     |
| 063  | CHIANELLO VALLESINA | |       |     |
| 064  | FERMO          |       |      |     |
| 065  | MONTE GIORGIO  |       |      |     |
| 066  | CASTEL DI LAMA |       |      |     |
| 067  | MONTEGRANARO   |       |      |     |
| 068  | URBANLA        |       |      |     |
| 069  | FERMIGNANO     |       |      |     |
| 070  | PERGOLA        |       |      |     |
| 071  | ACQUASANTA TERME |      |      |     |
| 072  | APPIGNANO DEL TRONTO | |       |     |
| 073  | MALTIGNANO     |       |      |     |
| 074  | MONTEGALLO     |       |      |     |
| 075  | CASTIGNANO     |       |      |     |
| 076  | ARQUATA DEL TRONTO | |       |     |
| 077  | ASCOLI PICENO  |       |      |     |
| 078  | VENAROTTA      |       |      |     |
| 079  | MONTEGIORGIO   |       |      |     |
| 080  | VITTORIA IN MANTENANO S. | |      |     |
| 081  | MONTE S. PIETRANGELI | |       |     |
| 082  | AMANDOLA       |       |      |     |
| 083  | FORCE          |       |      |     |
| 084  | COMUNANZA      |       |      |     |
| 085  | SERVIGLIANO    |       |      |     |
| 086  | MONTEMONACO    |       |      |     |
| 087  | FALERONE       |       |      |     |
| 088  | MONTOTTONE     |       |      |     |
| CODE | LOCALITY       | VALUE | MEAS |
|------|----------------|-------|------|
| 001  | ACQUASPARTA    |       |      |
| 002  | ALLERONA       |       |      |
| 003  | AMELIA         |       |      |
| 004  | ARRONE         |       |      |
| 005  | ASSISI         |       |      |
| 006  | BASCHE         |       |      |
| 007  | BASTIA UMBRA   |       |      |
| 008  | BETTONA        |       |      |
| 009  | BEVAGNA        |       |      |
| 010  | CALVI D'UMBRIA |       |      |
| 011  | CAMPELLO SUL CLITUNNO | | |
| 012  | CANNARA        |       |      |
| 013  | CASCIA         |       |      |
| 014  | CASENOVE       |       |      |
| 015  | CASTEL DEL PIANO UMBRO | | |
| 016  | CASTEL GIORGIO |       |      |
| 017  | CASTEL RITALDI |       |      |
| 018  | CASTEL VISCARDO|       |      |
| 019  | CERRETO DI SPOLETO | | |
| 020  | CITERNA        |       |      |
| 021  | CITTÀ DI CASTELLO |       | |
| 022  | COLLAZZONE     |       |      |
| 023  | COLLESCIPOLI DI TERNI | | |
| 024  | COLLESTATTE    |       |      |
| 025  | COSCIANO       |       |      |
| 026  | DERUTA         |       |      |
| 027  | FABRO          |       |      |
| 028  | FERENTILLO     |       |      |
| 029  | FICULLE        |       |      |
| 030  | FOLIGNO        |       |      |
| 031  | FORTEBRACCIO   |       |      |
| 032  | FOSSATO DI VICO |     | |
| 033  | GIANO DELL'UMBRIA |     |   |
| 034  | GIOVE          |       |      |
| 035  | GUALDO CATTANEO|       |      |
| 036  | GUALDO TADINO  |       |      |
| 037  | GUARDEA        |       |      |
| 038  | GUBBIO         |       |      |
| 039  | LUGNANO IN TEVERINA | | |
| 040  | MARSCIANO      |       |      |
| 041  | MASSA MARTANA  |       |      |
| 042  | MONTECASTELLO VIBIO | | |
| 043  | MONTECASTRILLO |       |   |
| 044  | MONTECCHIO - PG |        |   |
| 045  | MONTEFALCO     |       |      |
| 046  | MONTEGABBIONE  |       |      |
| 047  | MONTELEONE D'ORVIETO | | |
| 048  | MONTELEONE DI SPOLETO |  | |
| 049  | MONTE S. M. TIBERINA | | |
| 050  | MUGNANO - PG   |       |      |
| 051  | NARNI          |       |      |
| 052  | NOCERA UMBRA   |       |      |
| 053  | NORCIA         |       |      |
| 054  | ORVIETO        |       |      |
| 055  | OTRICOLI       |       |      |
| 056  | PAPIGNO (MARMORE) |   |   |
| 057  | PARRANO        |       |      |
| 058  | PASSIGNANO SUL TRASIMENO | |   |
| 059  | PERUGIA        |       |      |
| CODE | LOCALITY       | GRADE | NOTE | MAP |
|------|----------------|-------|------|-----|
| 060  | PETRIGNANO D'ASSISI | 4     | M    | 1   |
| 061  | PIEDILUCO DI TERNI  | NF    | M    | —   |
| 062  | PIETRALUNGA          | NF    | M    | 1   |
| 063  | PONTE S. GIOVANNI    | 4     | M    | I   |
| 064  | PORANO              | NF    | M    | —   |
| 065  | GEMINI, S           | NF    | M    | —   |
| 066  | GIUSTINO, S         | NF    | M    | —   |
| 067  | ANATOLIA DI NARCO, S | NF  | M    | —   |
| 068  | MARIA DEGLI ANGELI, S | 4   | M    | —   |
| 069  | VENANZO            | 3     | M    | 1   |
| 070  | SCANZANO            | NF    | M    | —   |
| 071  | SCHEGGIA            | NF    | M    | 1   |
| 072  | SELLANO             | + NF  | M    | 1   |
| 073  | SIGILLO             | NF    | M    | —   |
| 074  | SPELLO              | 4     | M    | 1   |
| 075  | SPOLETO             | NF    | M    | —   |
| 076  | STRONCONE           | NF    | M    | —   |
| 077  | FORGIANO            | NF    | M    | —   |
| 078  | TRESTINA            | 4     | M    | 1   |
| 079  | TREVI               | 3     | M    | 1   |
| 080  | TUORO SUL TRASIMENO | NF    | M    | 1   |
| 081  | UMBERTIDE           | NF    | M    | I   |
| 082  | VALFABBRICA         | NF    | M    | 1   |
| 083  | VALTOPINA           | 4     | M    | 1   |
| 084  | FONTIGNANO (MUGNANO)| NF    | M    | —   |
| 085  | MONTEPETRIOLO (PIETRAFitta)| NF | M | — |
| CODE | LOCALITY          | GRADE | NOTE | MAP |
|------|------------------|-------|------|-----|
| 001  | ACQUAFONDATA     | 4     | M    |     |
| 002  | AFFILE           | NF    | M    |     |
| 003  | AGOSTA           | NF    | M    | 1   |
| 004  | ALBANO LAZIALE   | 4     | M    | 1   |
| 005  | ANZIO            | 4     | M    | 1   |
| 006  | LAVINIO, LIDO DI ENEA | 4 | M | -- |
| 007  | ARSOLI           | 4     | M    | 1   |
| 008  | ATINA            | 5     | M    | 1.5 |
| 009  | AUSONIA          | 5     | M    | 1.5 |
| 010  | BELLEGGRA        | 4-5   | M    | --  |
| 011  | BOMARZO          | 4     | M    | --  |
| 012  | BORGO PODGORA    | 4     | M    | --  |
| 013  | CAMERATA NUOVA   | 4     | M    | 1   |
| 014  | CAMPOVERDE (APRILIA) | 3 | M | -- |
| 015  | CAPENA           | 5     | M    | 1.5 |
| 016  | CASALVIERI       | 5     | M    | 1   |
| 017  | CASSINO          | 5     | M    | 1.5 |
| 018  | CASTEL GANDOLFO  | 4     | M    | --  |
| 019  | CASTELFORTE      | 5     | M    | 1.5 |
| 020  | CASTEL MADAMA    | 3     | M    | 1   |
| 021  | CELLENO          | 3     | M    | --  |
| 022  | CERVARO          | 5     | M    | 1.5 |
| 023  | CIAMPINO         | 4     | M    | 1   |
| 024  | CICILIANO        | 4     | M    | 1   |
| 025  | CISTERNA DI LATINA | 4  | M | 1 |
| 026  | FIANO ROMANO     | 4     | M    | 1   |
| 027  | FONDI            | 5     | M    | 1   |
| 028  | FONTANA LIRI     | 4     | M    | --  |
| 029  | FORMIA           | 5     | M    | 1   |
| 031  | FRATTOCCHIE (ROMA) | 4 | M | -- |
| 032  | FROSINONE        | 4     | M    | 1   |
| 033  | GAETA            | 5     | M    | 1   |
| 034  | GALLICANO        | 4     | M    | --  |
| 035  | CERANO           | 4     | M    | --  |
| 036  | GRAFFIGNANO      | 4     | M    | 1   |
| 037  | GROTTE S. STEFANO | 3 | M | 1 |
| 038  | IENNE            | NF    | M    |     |
| 039  | ISOLA DEL LIRI   | 5     | M    | 1   |
| 042  | LICENZA          | 3     | M    | --  |
| 045  | MARCELL1NA       | 4     | M    | 1   |
| 046  | MONTIERI         | 4     | M    | 1   |
| 050  | PALOMBARA SABINA | 4     | M    | --  |
| 053  | MONTE LIBRETTI   | 4     | M    | 1   |
| 055  | MONTE ZOCCHI     | NF    | M    |     |
| 056  | MONTE DEI CROCEI | 5     | M    | 1   |
| 057  | MONTESERRATI     | 3     | M    | 1   |
| 058  | MONTI FAVIGNANA  | 4     | M    | 1   |
| 059  | MONTOLIVETTI     | 4     | M    | --  |
| 060  | MONTESERACCHI    | 4     | M    | --  |
| 061  | MONTALBANO       | 5     | M    | 1   |
| 062  | MONTESEDILE      | 4     | M    | --  |
| 063  | MONTESERPONTI   | 4     | M    | --  |
| 064  | MONTILIGHTI      | 4     | M    | --  |
| 065  | MONTISANTO       | 4     | M    | --  |
| 066  | MONTI S. ANTONIO | 4     | M    | 1   |
| 067  | MONTI S. CARLO   | 4     | M    | --  |
| 068  | MONTI S. CIRO    | 4     | M    | --  |
| 069  | MONTI S. GREGORIO | 4 | M | -- |
| 070  | MONTI S. LICINIO | 4     | M    | --  |
| 071  | MONTI S. LUCA    | 4     | M    | --  |
| 072  | MONTI S. NICCOLÒ | 4     | M    | --  |
| 073  | MONTI S. PIETRO  | 4     | M    | --  |
| 074  | MONTI S. VITO    | 4     | M    | --  |
| 075  | MONTI S. ZACCHERI | 4  | M | -- |
| 076  | MONTI S. ZACCARI | 4     | M    | 1   |
| 077  | MONTI S. ZACCARIO | 4 | M | -- |
| CODE | LOCALITY          | GRADE | NOTE | MAP |
|------|-------------------|-------|------|-----|
| 060  | SETTEBAGNI (MENTANA) | 4     | M    | —   |
| 061  | APOLLINARE S      | 5     | M    | —   |
| 062  | COSMA E  DAMIANO, S.S | 4     | M    | 5   |
| 063  | DONATO VAL DI COMINO, S | 5     | M    | 1   |
| 064  | ELIA FIUMERAPIDO S | 4-5   | M    | 5   |
| 065  | GIORGIO  DEL  URI, S | 4-5   | M    | 15  |
| 066  | TERRACINA          | 5     | M    | 1   |
| 067  | TIVOLI BAGNI       | 4     | M    | 1   |
| 068  | VALLEPIETRA        | NF    | M    | —   |
| 069  | VALLEROTONDA       | 4-5   | M    | —   |
| 070  | VENTOTENE, ISOLA   | 5     | M    | 1   |
| 071  | AQUINO             | 5     | M    | 15  |
| 072  | CASTEL S.  ELIA    | 4     | M    | —   |
| 073  | CEPRANO            | 5     | M    | 1  |
| 074  | ESPERIA            | 5     | M    | 15  |
| 075  | FABRICA DI  ROMA   | 4     | M    | —   |
| 076  | FALERIA            | 4     | M    | —   |
| 077  | MONTEROSI          | 4     | M    | 1   |
| 078  | MONTEFIASCONE      | 4     | M    | 1   |
| 079  | ACQUAPENDENTE      | NF    | M    | —   |
| 080  | ARLENA DI  CASTRO  | 3     | M    | —   |
| 081  | PERUGIA            | 4     | M    | 1   |
| 082  | MONTEMURLO         | 4     | M    | 1   |
| 083  | BORGO PIAVE        | 4     | M    | —   |
| 084  | ALATRI             | 4     | M    | —   |
| 085  | MOLDALENTO         | 4     | M    | —   |
| 086  | CANTALICE          | 3     | M    | —   |
| 087  | PASSO CORESE       | 4     | M    | —   |
| 088  | CAPRAROLA          | 3     | M    | 1   |
| 089  | BOLSENA            | 3     | M    | —   |
| 090  | VITTORE  DEL  LAZIO.  S | 4     | M    | 15  |
| 091  | STRANGOLA GALLI    | 4     | M    | —   |
| 092  | POGGIO MIRTETO     | +4    | M    | —   |
| 093  | ROME, CENTRO       | 4     | M    | —   |
| 094  | OSTIA LIDO         | 4     | M    | —   |
| 095  | LANUVIO            | 4     | M    | 1   |
| 096  | ZAGAROLO           | 5     | M    | 1   |
| 097  | MONTEFIORE         | 3-4   | M    | —   |
| 098  | MONTEFIASCONE      | NF    | M    | —   |
| 099  | ACQUAPENDENTE      | NF    | M    | —   |
| 100  | ARLENA DI  CASTRO  | 3     | M    | —   |
| 101  | BORGO PIAVE        | 4     | M    | —   |
| 102  | ALATRI             | 4     | M    | —   |
| 103  | MOLDALENTO         | 4     | M    | —   |
| 104  | CANTALICE          | 3     | M    | —   |
| 105  | PASSO CORESE       | 4     | M    | —   |
| 106  | CAPRAROLA          | 3     | M    | 1   |
| 107  | BOLSENA            | 3     | M    | —   |
| 108  | VITERBO            | 3-4   | M    | —   |
| 109  | MARIA INFANTE, S   | NN    | M    | —   |
| 110  | VITTORE  DEL  LAZIO.  S | 4     | M    | 15  |
| 111  | BIAGIO SARACINESCO S | 4     | M    | 15  |
| 112  | PASTENA            | 4     | M    | —   |
| CODE | LOCALITY    | GRADE | NOTE |
|------|-------------|-------|------|
| 001  | ALANNO      |       |      |
| 002  | ALBA ADRIATICA |     |      |
| 003  | ALFEDENA    |       |      |
| 004  | ALTINO      |       |      |
| 005  | ANVERSA DEGLI ABRUZZI | | |
| 006  | ARIELLI     |       |      |
| 007  | ATELETA     |       |      |
| 008  | AVEZZANO    |       |      |
| 009  | BELLANTE    |       |      |
| 010  | BUCCHIANICO |       |      |
| 011  | CAMPI       |       |      |
| 012  | CAMPO DI GIOVE | | |
| 013  | CAPESTRANO  |       |      |
| 014  | CAPISTRELLO |       |      |
| 015  | CAPPADOCIA  |       |      |
| 016  | CASACANDITELLA | | |
| 017  | CASALANGUIDA |      |      |
| 018  | CASALBORDINO |      |      |
| 019  | CASALINCONTRADA | | |
| 020  | CASOLI      |       |      |
| 021  | CASTEL DI SANGRO | | |
| 022  | CASTELFRENTANO |     |      |
| 023  | CASTELVECCHIO SUBEQUO | | |
| 024  | CASTIGLIONE M.M | | |
| 025  | CATIGNANO    |       |      |
| 026  | CELANO       |       |      |
| 027  | CELENZA SUL TR1GNO | | |
| 028  | CERCHIO      |       |      |
| 029  | CHIETI       |       |      |
| 030  | CIVITALUPARELLA | | |
| 031  | CITITAQUANA  |       |      |
| 032  | CIVITELLA CASANOVA | | |
| 033  | CIVITELLA DEL TRONTO | | |
| 034  | CIVITELLA MESSER RAIMONDO | | |
| 035  | CIVITELLA ROVETO | | |
| 036  | COCULLO      |       |      |
| 037  | COLLARMELE   |       |      |
| 038  | COLLECORVINO |       |      |
| 039  | COLLEDIMACINA |      |      |
| 040  | COLONNELLA   |       |      |
| 041  | CORROPOLI    |       |      |
| 042  | CUPELLO      |       |      |
| 043  | FALLO        |       |      |
| 044  | FARINDOLA    |       |      |
| 045  | FARA S. MARTINO |     |      |
| 046  | FONTECCHIO   |       |      |
| 047  | FRANCAVILLA AL MARE | | |
| 048  | FRESAGRANDINARIA | | |
| 049  | FURCI        |       |      |
| 050  | GAMBERALE    |       |      |
| 051  | GESSOPALENA  |       |      |
| 052  | GIOIA DEI MARSI | | |
| 053  | GISSI        |       |      |
| 054  | GOR1ANO SICOLI | | |
| 055  | GUARDIAGRELE |       |      |
| 056  | INTRODACOUA  |       |      |
| 057  | LAMA DEI PEFIGNI | | |
| 058  | LANCIANO     |       |      |
| 059  | LETTOPALENA (PALENA) | | |
|      |             |       |      |
| CODE | LOCALITY             | GRADE | NOTE |
|------|----------------------|-------|------|
| 060  | LORETO APRUTINO      |       |      |
| 061  | LUCO DEI MARSI       |       |      |
| 062  | MAGLIANO DEI MARSI   |       |      |
| 063  | MARTINSICURO         |       |      |
| 064  | MIGLIANICO           |       |      |
| 065  | MONTENERODOMO        |       |      |
| 066  | MONTAZZOLI           |       |      |
| 067  | NAVELLI              |       |      |
| 068  | NERETO               |       |      |
| 069  | ORTONA               |       |      |
| 070  | ORTONA DEI MARSI     |       |      |
| 071  | ORSOGNA              |       |      |
| 072  | ORTUCCHIO            |       |      |
| 073  | OVINDOLI             |       |      |
| 074  | PACENTRO             |       |      |
| 075  | PAGLIETA             |       |      |
| 076  | PALENA               |       |      |
| 077  | PALMOLI              |       |      |
| 078  | PALOMBARO            |       |      |
| 079  | PENNADOMO            |       |      |
| 080  | PENNE                |       |      |
| 081  | PESCASSEROLI         |       |      |
| 082  | PESCI NA             |       |      |
| 083  | PESCOCOSTANZO        |       |      |
| 084  | PETTORANO SUL GIZIO  |       |      |
| 085  | PIANELLA PE          |       |      |
| 086  | PIETRANICO           |       |      |
| 087  | PIZZOFERRATO         |       |      |
| 088  | POGGIOFIORITO        |       |      |
| 089  | POPOLI               |       |      |
| 090  | PRATOLA PELIGNA      |       |      |
| 091  | ROCCA PIA            |       |      |
| 092  | RAIANO               |       |      |
| 093  | RAPINO               |       |      |
| 094  | ROCCA DI MEZZO       |       |      |
| 095  | ROCCARASO            |       |      |
| 096  | ROCCASCALEGNA        |       |      |
| 097  | ROCCASPINALVETI      |       |      |
| 098  | ROSCIANO             |       |      |
| 099  | SCANNO               |       |      |
| 100  | SCERNE               |       |      |
| 101  | SECINARO             |       |      |
| 102  | SCHIAVI DI ABRUZZO   |       |      |
| 103  | SCURCOLA MARSICANA   |       |      |
| 104  | BENEDETTO DEI MARSI  |       |      |
|       | S. EGIDIO ALLA VIBRATA |   |      |
|       | S. SALVO             |       |      |
|       | S. EUSANIO DEL SANGRO|       |      |
|       | S. VINCENZO VALLE ROVETO | | |
|       | S. VITO CHIETINO    |       |      |
| 111  | SULMONA              |       |      |
| 112  | TAGLI ACOZZO         |       |      |
| 113  | TARANTA PELIGNA      |       |      |
| 114  | TOLLO                |       |      |
| 115  | TORINO DI SANGRO     |       |      |
| 116  | TORRICELLI PELIGNA   |       |      |
| 117  | TORTORETO            |       |      |
| 118  | TRASACCO             |       |      |
| CODE | LOCALITY                  | GRADE | NOTE |
|------|---------------------------|-------|------|
| 119  | VASTO                     | 5     | M    |
| 120  | VILLESIMO DI ASTESO        | 5     | M    |
| 121  | VILLETTA BARREA           | 4     | M    |
| 122  | PIANURA AL VOMANO         | 3     | M    |
| 123  | L'AQUILA                  | 4     | M    |
| 124  | MONTORIO AL VOMANO        | 4     | M    |
| 125  | MONTEFINO                 | 4     | M    |
| 126  | AI RI                      | 4     | M    |
| 127  | NICOLO TORDINO, S. (ZACCHEO)| 3     | M    |
| 128  | TORRICELLA SICURA         | 3-4   | M    |
| 129  | TERAMO                     | 3     | M    |
| 130  | CELLINO ATTANASIO          | 4     | M    |
| 131  | PESCARA                    | 5     | M    |
| 132  | CITTA S. ANGELO            | 4-5   | M    |
| 133  | ATESTA                     | 5     | M    |
| 134  | TORREBRUNA                 | 4     | M    |
| 135  | GIUSEPPE LIPONI, S        | 4     | M    |
| 136  | AIELLI                     | 4     | M    |
| 137  | PICCIANO                   | 4     | M    |
| 138  | MOSCUFO                   | 4     | M    |
| 139  | MASSA D'ALBE               | 4     | M    |
| 140  | GIULIANO TEATINO           | 4     | M    |
| 141  | TORANO NUOVO               | 4     | M    |
| 142  | OMORE, S                   | 4     | M    |
| 143  | MONTEBELLO DI BERTONA      | 4     | M    |
| 144  | CEPPAGATTI                 | 4-5   | M    |
| 145  | PRETORO                    | 4     | M    |
| 146  | FARA FIORENTINO PETR1      | 4     | M    |
| 147  | VILLALAGO                  | 4     | M    |
| 148  | CANOSA SANNITA            | 4     | M    |
| CODE | LOCALITY |
|------|----------|
| 001  | ISERNIA  |
| 002  | CARPINONE |
| 003  | PESCHE   |
| 004  | MONTERODUNI |
| 005  | MIRANDA  |
| 006  | FORNELLI |
| 007  | CAMPOMARINO |
| 008  | CAMPOLIETO |
| 009  | CANTALUPO |
| 010  | CAPRACOTTA |
| 011  | FERRAZZANO |
| 012  | CASACALENDA |
| 013  | CASTELMAURO |
| 014  | CASTEL S. VINCENZO |
| 015  | CASTROPIGNANO |
| 016  | CERCEMAGGIORE |
| 017  | CI VITACOMARANO |
| 018  | COLLETORTO |
| 019  | COLLI A VOLTURNO |
| 020  | FILIGNANO |
| 021  | FROSOLONE |
| 022  | GAMBATESA |
| 023  | GUARDIALFIERA |
| 024  | GUARDIAREGIA |
| 025  | GUGLIONESI |
| 026  | IELS1 |
| 027  | ANGELO DEL TESIO, S |
| 028  | LARI NO |
| 029  | LIMOSANO |
| 030  | LUCITO |
| 031  | MACCHIAGODENA |
| 032  | MACCHIA VALFORTE |
| 033  | MAFALDA |
| 034  | MATRICE |
| 035  | MIRABELLO SANNITICO |
| 036  | MONTAGANO |
| 037  | MONTAQUILA |
| 038  | MONTECILFONE |
| 039  | MONTEFALCONE DEL SANNIO |
| 040  | MONTELONGO |
| 041  | MONTENERO DI BISACCIA |
| 042  | VINCHIATURO |
| 043  | PALATA |
| 044  | PESCOLANCIANO |
| 045  | PETACCIATO |
| 046  | PETRELLA TIFERNINA |
| 047  | PIETRABBON DANTE |
| 048  | PORTACANNONE |
| 049  | RICIA |
| 050  | RIPABOTTONI |
| 051  | RIPAL1MOSANO |
| 052  | ROTELLO |
| 053  | SEPINO |
| 054  | CROCE DI MAGLIANO, S |
| 055  | ELENA SANNITA, S |
| 056  | GIULIANO DEL SANNIO, S |
| 057  | MARTINO IN PENSIL1S, S |
| 058  | TERMOLI |
| 059  | TORELLA DEL SANNIO |
| LOCALITY  | CODE | GRADE | NOTE | MAP |
|----------|------|-------|------|-----|
| TORO     | 060  | 5     | M    | 5   |
| TRIVENTO | 061  | 5     | M    | 1   |
| URURI    | 062  | 5     | M    | 1   |
| VENAFRO  | 063  | 5     | M    | 1   |
| ROCCAMANDOLFI | 064 | 6   | M    | 1   |
| CASTELPETROSO | 065 | 6   | M    | 1   |
| GIULIANO DI PUGLIA, S | 066 | 6 | M    | —   |
| CERCEPICCOLA | 067 | 5   | M    | 5   |
| AGNONE   | 068  | 5     | M    | 1   |
| BAGNOLI DEL TRIGNO | 069 | 5   | M    | 1   |
| BARANELLO | 070 | 6   | M    | 1   |
| BOIANO   | 071  | 6     | M    | 1   |
| BONEFRO  | 072  | 6     | M    | 1   |
| CAMPOBASSO | 073 | 6   | M    | 1   |
| POGGIO SANITA | 074 | 5   | M    | 5   |
| CODICE | LOCALITÀ          | COMUNE  | MAPPA | NOTE |
|--------|------------------|---------|-------|------|
| 001    | PISCIOTTA        | SALERNO | 6-7   | M   |
| 002    | POMPEI           | NAPOLI  | 7     | G   |
| 003    | CONTURSI         | NAPOLI  | 7     | B   |
| 004    | VIBONATI         | POLLINA | NN    | —    |
| 005    | CACCIANO         | CAPACCIO| 6     | M   |
| 006    | CATANNA         | CAMERIA| 5-6   | M   |
| 007    | VALLO LUCANIA    | NAPOLI  | 6     | B   |
| 008    | LAURINO          | NAPOLI  | 6     | B   |
| 009    | CASTELLABATE     | NAPOLI  | 6     | M   |
| 010    | SALA CONSILINA   | POSTIGLIONE| 7     | B   |
| 011    | TORCHIARA        | POSTIGLIONE| 7     | B   |
| 012    | CAPACCIO         | POSTIGLIONE| 7     | B   |
| 013    | CALABRITTO       | MONTEFORTE CILENTO| 6 | M |
| 014    | MONTEFORTE UP    | MONTEFORTE CILENTO| 8 | B |
| 015    | MERCOGLIANO      | ZUNGOLI | 7 | M |
| 016    | ZUNGOLI          | ATIPALDA| 8 | B |
| 017    | ANGELO DI LOMBARDI | CALITRA| 8 | B |
| 018    | AVELLINO         | CASERTA | NN | — |
| 019    | MONTEFORTE SILENTINA | CASERTA| 6-7 | M |
| 020    | SOLOFRA          | BENEVENTO| 7 | M |
| 021    | CASTELLAMMARE DI STABIA | NAPOLI| 7 | B |
| 022    | CAVA DEI TIRRENI | NAPOLI  | 7     | B   |
| 023    | MONTELLA         | MONTELLA| 8 | B |
| 024    | PATERNOPOLI      | PATERNOPOLI| 8 | B |
| 025    | CALITRA          | PATERNOPOLI| 8 | B |
| 026    | ROCCA D'ASPIDE   | ROCCA D'ASPIDE| 6 | M |
| 027    | OLIVETO CITRA    | ACERNO  | 8     | B   |
| 028    | ACERNO           | RICIGLIANO| 8 | B |
| 029    | POLLA            | POLLA   | 8     | B   |
| 030    | RUFO             | RUFO    | 7     | B   |
| 031    | MAIORI           | MAIORI  | 6     | M   |
| 032    | SAPRI            | SAPRI   | 6     | M   |
| 033    | POLICASTRO       | POLICASTRO| NN | — |
| 034    | PADULA           | CASALBUONO| 6 | M |
| 035    | CASALBUONO       | LAURITO  | 6 | M |
| 036    | AULETTA          | AULETTA | 8 | B |
| 037    | ATENA LUCANA     | ATENA LUCANA| 7-8 | B |
| 038    | TEGGIANO         | TEGGIANO| 7 | B |
| 039    | ARSENIO          | ARSENIO | 8 | B |
| 040    | MONTESANO SULLA MARCELLANA | NAPOLI| 6-7 | B |

senne
| CODE | LOCALITY | GRADE | NOTE | MAP |
|------|----------|-------|------|-----|
| 060  | PIETRO   | AL    | TANAGRO, S |     |
| 061  | CAMALDOLI | (CONTURSI) | | |
| 062  | CAPO     | SELE | | | 
| 063  | MATERDOM1NI | (CAPO SELE) | | |
| 064  | GALDO    | OPPIDI | (CAMPAGNA) | | 
| 065  | PERSANO  | | | |
| 066  | PONTECAGNANO | | | |
| 067  | SASSANO  | | | | 
| 068  | SENERCHIA | | | |
| 069  | SCORZO   | | | | 
| 070  | SERRA    | D'ARCE | (CAMPAGNA) | | 
| 071  | SICIGNANO | D'ALBURNI | | |
| 072  | VALVA    | | | | 
| 073  | COLLIANO | | | |
| 074  | COLLIANELLO | (COLLIANO) | | |
| 075  | CASTELNUOVO | DI CONZA | | |
| 076  | SANTOMENNA | | | |
| 077  | QUAGLIETTA | | | |
| 078  | CONCA    | DELLA | CAMPANIA | | 
| 079  | ROCCAMONFINA | | | |
| 080  | LAURO   | (QUINDICI) | | |
| 081  | CELLOLE  | | | |
| 082  | VAIRANO  | PATENORA | | |
| 083  | TEANO    | | | |
| 084  | PIETRAMELARA | | | |
| 085  | SPARANISE | | | |
| 086  | CALVI    | RISORTA | (PIGNATARO) | | 
| 087  | PIGNATARO | MAGGIORE | | |
| 088  | FORMICOLA | | | |
| 089  | ALVIGNIANO | | | |
| 090  | RUVIANO  | | | |
| 091  | PUGLIANELLO | | | |
| 092  | BELLONA  | | | |
| 093  | VITU     | LAZIO | | | 
| 094  | STIO     | | | |
| 095  | CAIAZZO  | | | |
| 096  | CASTEL  | CAMPAGNANO | | |
| 097  | AMOROSI  | | | |
| 098  | SOLOPACA | | | |
| 099  | FRATTE  | (SALERNO) | | 
| 100  | CANCELLO | E ARNONE | | |
| 101  | CAPUA    | | | |
| 102  | MARIA    | CAPUA | VETERE, S | | 
| 103  | PRISCO  | | | |
| 104  | AGATA    | DEI | GOTI, S | | 
| 105  | ARIENZO  | | | |
| 106  | MORIGERATI | | | |
| 107  | MASSA    | LUBRENSE | | |
| 108  | TORRE    | ANNUNZIATA | | |
| 109  | NOLA     | | | |
| 110  | TEVEROLA | | | |
| 111  | PIETRO  | A | PATIERNO, S | | 
| 112  | ARPAIA  | | | |
| 113  | FORCHIA  | | | |
| 114  | PAROLISE | | | |
| 115  | ISCHIA, | PORTO | | |
| 116  | FORIO   | (ISCHIA) | | |
| 117  | BARANO   | D'ISCHIA | | |
| 118  | segue | | | |
segue Campania

CODE LOCALITY

119 SERRANA (ISCHIA)

120 • CASAMICCIOLA TERME

121 LACCO AMENO

122 PROCIDA

123 NAPOLI - FUORIGROTTA

124 GIUGLIANO IN CAMPANIA

125 NAPOLI - POSILLIPO

126 SASSINORO

127 ROCCA RAINOLA

128 ROCCA RAINOLA

129 CERVINO

130 MARIA A VICO, S

131 CROCE DEL SANNIO, S

132 MORCONE

133 LORENZELLO, S

134 CERRETO SANNITA

135 SALVATORE TELESINO, S

137 GUARDIA SANFRAMONDI

138 TELESE

139 PONTELANDOLFO

140 CAMPOLATTARO

141 CUSANO MUTRI

142 PIETRAROIA

143 FRASSO TELESINO

144 MEL1ZZANO

145 VALENTINO TORIO, S

146 CASAGIOVE (S. PRISCO)

147 GRAZZANISE

148 MARCIANISE

149 CAPODRISE (MARCIANISE)

150 RECALE

151 MACERATA CAMPANIA

152 PORTICO DI CE. (RECALE)

153 ACERRA

154 AFRAGOLA

155 A1LANO

157 APICE

158 BASELICE

159 FOIANO DI VALFORTORE

160 BOSCOREALE (BOSCOTRECASE)

161 BOSCOTRECASE

162 BUONALBERGO

163 MANGO PIEMONTE, S

165 CIPRIANO PICENTINO. S

166 RAVELLO

167 CASALNUOVO DI NAPOLI

168 CAUTANO

169 TOCCO CAUDIO

...
| CODE | LOCALITY   | NOTE |
|------|------------|------|
| 237  | CASTELMORRONE |      |
| 238  | CASTELFRANCO IN MISCANO |      |
| 239  | DUGENTA     |      |
| 240  | GINESTRA DEGLI SCHIAVONI |      |
| 241  | LIMATOLA    |      |
| 242  | PETINA      |      |
| 243  | AGNELLO, S  |      |
| 244  | ANGELO D'ALIFE, S |     |
| 245  | CIPRIANO D'AVERSA, S (AVER) | |
| 246  | FELICE A CANCELLO, S |    |
| 247  | GREGORIO MATESE, S |    |
| 248  | CASTELLO DEL MATESE | |
| 249  | SESSA AURUNCA |     |
| 250  | SORRENTO    |      |
| 251  | AVERSA      |      |
| 252  | CAPRIATI A VOLTURNO |   |
| 253  | VILLA DI BR1ANO (FRIGNANO) | |
| 254  | LUSCIANO (AVERSA) |   |
| 255  | LEUCIO, S (CE.) |   |
| 256  | GIORGIO DEL SANNIO, S | |
| 257  | ALTAVILLA IRPINA | |
| 258  | BARONISSI   |      |
| 259  | BONITO      |      |
| 260  | BUCCINO     |      |
| 261  | CAIRANO     |      |
| 262  | CARIFE      |      |
| 263  | CELZI       |      |
| 264  | CONZA DI CAMPANIA | |
| 265  | GIFFONE VALLE PIANA | |
| 266  | GUARDIA DEI LOMBARDI | |
| 267  | PIANO LACENO (LACENO LAGO) | |
| 268  | LIONI       |      |
| 269  | MIRABELLA ECLANO | |
| 270  | MONTANO ANTILIA | |
| 271  | MORRA DE SANCTIS |   |
| 272  | MUGNANO DEL CARDINALE ... |   |
| 273  | O'ITATI     |      |
| 274  | PIETRADEFUSI (VENDICANO) .. | |
| 275  | PIETRASTORNINA | |
| 276  | PRATA DI PRINCIPATO ULTRA .. | |
| 277  | ROCCA S. FELICE | |
| 278  | SAL VITELLE |      |
| 279  | BIAGIO, S (SERINO) | |
| 280  | GREGORIO MAGNO. S | |
| 281  | MANGO SUL CALORE, S | |
| 282  | MICHELE DI SERINO, S | |
| 283  | LUCIA DI SERINO, S | |
| 284  | ANDREA DI CONZA, S | |
| 285  | ANGELO A FASANELLA, S | |
| 286  | SERINO |     |
| 287  | SERRE    |      |
| 288  | SORBO SERPICO (SALZA IRP.) .. | |
| 289  | TEORA     |      |
| 290  | NICOLA LA STRADA, S. (CE) | |
| 291  | TUFO      |      |
| 292  | VILLAMAINA |      |
| 293  | VOLTURARA IRPINA | |
| 294  | AGEROLA   |      |
| 295  | ACROPOLI  |      |
| 296  | AIELLO (BARONISSI) | |
| 297  | AIELLO DEL SABATO | |
| 298  | AIROLA     |      |
| 299  | AMALFI     |      |
|       |            |      |
| CODE | LOCALITY | GRADE | NOTE |
|------|----------|-------|------|
| 300  | ANDRETTA | 8     |      |
| 301  | APOLLOSA | 7     | B    |
| 302  | AQUILONIA | 7     | B    |
| 303  | ARIANO IRPINO | 7     | B'   |
| 304  | ASCEA | 6     |      |
| 305  | PELEZZANO | 7     | M    |
| 306  | BACOLI-BAIA | 7     |      |
| 307  | BAGNOLI IRPINO | 7     |      |
| 308  | BAIANO | 6     |      |
| 309  | BELLGOUARDO | 7     |      |
| 310  | BISACCIA | 7     |      |
| 311  | TORELLA DEI LOMBARDI | 7     |      |
| 312  | BORGO (CONTRADA) | 7     |      |
| 313  | BRACIGLIANO | 7     |      |
| 314  | BRUSCIANO (POMIGLIANO) | 7     |      |
| 315  | PERDIFUMO | 7     |      |
| 316  | CAMPORA | 6     |      |
| 317  | PAESTUM | 7     |      |
| 318  | DOMICELLA | 6     |      |
| 319  | CASSANO IRPINO | 7     |      |
| 320  | CASTEL BARONIA | 7     |      |
| 321  | CASTELCIVITA | 7     |      |
| 322  | CASTELFRANCI | 7     |      |
| 323  | CASTEL S. GIORGIO | 7     |      |
| 324  | CASTEL S. LORENZO | 7     |      |
| 325  | CASTELVETERE VALFORTORE | 7     |      |
| 326  | CENTOLA | 6     |      |
| 327  | CERVINARA | 7     |      |
| 328  | CESINALI (AVELLINO) | 7     |      |
| 329  | CHIUSANO DI S. DOMENICO | 7     |      |
| 330  | CONCA DEI MARINI | 7     |      |
| 331  | CONTRONE | 6     |      |
| 332  | CORLETO MONFORTE | 7     |      |
| 333  | VIETRI SUL MARE | 7     |      |
| 334  | DURAZZANO | 6     |      |
| 335  | FLUMERI | 7     |      |
| 336  | FONTANAROSA | 6     |      |
| 337  | FORINO | 7     |      |
| 338  | FRIGENTO | 6     |      |
| 339  | FUTANI | 7     |      |
| 340  | GESUALDO | 7     |      |
| 341  | GROTTAMINARDA | 7     |      |
| 342  | GROTTOLELLA | 7     |      |
| 343  | LACEDONIA | 7     |      |
| 344  | MADONNA DELL'ARCO (CERCOLA) | 7     |      |
| 345  | MARIGLIANO | 6     |      |
| 346  | MERCATO S. SEVERINO | 7     |      |
| 347  | MINORI | 7     |      |
| 348  | MOIANO | 6     |      |
| 349  | MONTECALVO IRPINO | 7     |      |
| 350  | MOTECORVINO PUGLIANO | 7     |      |
| 351  | MONTECORVINO ROVELLA | 7     |      |
| 352  | MONTE DI PROCIDA | 7     |      |
| 353  | MONTEMARANO | 6     |      |
| 354  | NUSCO | 7     |      |
| 355  | OGLIASTRO CILENTO | 7     |      |
| 356  | PADULI | 6     |      |
| 357  | PAGO DEL VALLO DI LAURO | 7     |      |
| 358  | PALINURO | 7     |      |
| 359  | VIETRI SUL MARE | 7     |      |
| 360  | DOMICELLA | 6     |      |
| 361  | CASTEL BARONIA | 7     |      |
| 362  | CASTELCIVITA | 7     |      |
| 363  | CASTELFRANCI | 7     |      |
| 364  | CASTEL S. GIORGIO | 7     |      |
| 365  | CASTEL S. LORENZO | 7     |      |
| 366  | CASTELVETERE VALFORTORE | 7     |      |
| 367  | CENTOLA | 6     |      |
| 368  | CERVINARA | 7     |      |
| 369  | CESINALI (AVELLINO) | 7     |      |
| 370  | CHIUSANO DI S. DOMENICO | 7     |      |
| 371  | CONCA DEI MARINI | 7     |      |
| 372  | CONTRONE | 6     |      |
| 373  | CORLETO MONFORTE | 7     |      |
| 374  | VIETRI SUL MARE | 7     |      |
| 375  | DURAZZANO | 6     |      |
| 376  | FLUMERI | 7     |      |
| 377  | FONTANAROSA | 6     |      |
| 378  | FORINO | 7     |      |
| 379  | FRIGENTO | 6     |      |
| 380  | FUTANI | 7     |      |
| 381  | GESUALDO | 7     |      |
| 382  | GROTTAMINARDA | 7     |      |
| 383  | GROTTOLELLA | 7     |      |
| 384  | LACEDONIA | 7     |      |
| 385  | MADONNA DELL'ARCO (CERCOLA) | 7     |      |
| 386  | MARIGLIANO | 6     |      |
| 387  | MERCATO S. SEVERINO | 7     |      |
| 388  | MINORI | 7     |      |
| 389  | MOIANO | 6     |      |
| 390  | MONTECALVO IRPINO | 7     |      |
| 391  | MOTECORVINO PUGLIANO | 7     |      |
| 392  | MONTECORVINO ROVELLA | 7     |      |
| 393  | MONTE DI PROCIDA | 7     |      |
| 394  | MONTEMARANO | 6     |      |
| 395  | NUSCO | 7     |      |
| 396  | OGLIASTRO CILENTO | 7     |      |
| 397  | PADULI | 6     |      |
| 398  | PAGO DEL VALLO DI LAURO | 7     |      |
| 399  | PALINURO | 7     |      |
| CODE | LOCALITY |
|------|----------|
| 359  | PALOMONTE |
| 360  | PAOLISI (AIROLA) |
| 361  | POMIGLLANO D'ARCO |
| 362  | POSITANO |
| 363  | POZZUOLI |
| 364  | PRAIANO |
| 365  | PRIGNANO CILENTO |
| 366  | QUINDICI |
| 367  | ROFRANO |
| 368  | ROSCIGNO |
| 369  | ROTONDI |
| 370  | RUTINO |
| 371  | LAUREANA |
| 372  | SALZA IRPINA |
| 373  | BIASE, S |
| 374  | MARTINO VALLE CAUDINA, S |
| 375  | NICOLA BARONIA, S |
| 376  | POTITO, S (ROCCA PIEMONTE) |
| 377  | TORRE ORSAIA |
| 378  | STEFANO DEL SOLE, S |
| 379  | VITALIANO, S |
| 380  | SARNO |
| 381  | SCAFATI |
| 382  | ZUPPINO (POSTIGLIONE) |
| 383  | SIANO |
| 384  | SOMMA VESUVIANA |
| 385  | TAURASI |
| 386  | TORELLO (SIANO) |
| 387  | TRAMONTI |
| 388  | TREVICO |
| 389  | VALLATA |
| 390  | AVELLA |
| 391  | CAPRIGLLA IRPINA |
| 392  | CASALBORE |
| 393  | CONTRADA GRECI |
| 394  | LAPIO |
| 395  | MARZANO DI NOLA (NOLA) |
| 396  | MELITO IRPINO |
| 397  | SESSA CILENTO |
| 398  | MONTAGUTO |
| 399  | MONTEFREDANE |
| 400  | MANOCALZATI (ATRIPALDA) |
| 401  | MONTEFUSCO |
| 402  | MONTEMILETTO |
| 403  | MONTEVERDE |
| 404  | SERRAMEZZANA |
| 405  | MOSCHIANO (MONTEFORTE) |
| 406  | OSPEDALETTO (MERCOGLIANO) |
| 407  | QUADRELLE (MUGNANO) |
| 408  | PRATOLASERRA |
| 409  | ROCCABASCERANA |
| 410  | ANGELO ALL'ESCA, S |
| 411  | ANGELO A SCALA, S (SUMMONTE) |
| 412  | TORTORELLA |
| 413  | SOSSIO BARONIA, S |
| 414  | SAVIGLIANO IRPINO |
| 415  | SCAMPITELLA |
| 416  | SIRIGNANO (BAIANO) |
REGIONAL MACROSEISMIC FIELD, ECC.

segue Campania

| CODE | LOCALITY | GRADE |
|------|----------|-------|
| 418  | SPERONE  |       |
| 419  | SUMMONTE |       |
| 420  | TAURANO  (MONTEFORTE) | |
| 421  | TRENTINARA | |
| 422  | VALLESACCARDA | |
| 423  | VILLANOVA  DEL  BATTISTA | |
| 424  | CURTI | |
| 425  | ALBANELLA | |
| 426  | ANGRI | |
| 427  | AOUARA | |
| 428  | ATRANI  (AMALFI) | |
| 429  | BATTIPAGLIA | |
| 430  | BELLIZZI  (BATTIPAGLIA) | |
| 431  | BUON  ABIT ACOLO | |
| 432  | PERTOSA | |
| 433  | CALVANICO | |
| 434  | CASALETTO  SPARTANO | |
| 435  | CASALVELINO | |
| 436  | STELLA  CILENTO | |
| 437  | CASTELNUOVO  CILENTO | |
| 438  | SALENTO | |
| 439  | CASTIGLIONE  DEI  GENOVESI | |
| 440  | CETARA | |
| 441  | BAGNI  CONTURSI | |
| 442  | CUCCARO  VETERE | |
| 443  | PISCIANO | |
| 444  | FURORE  (PRAIANO) | |
| 445  | GIFFONI  SEI  CASALI (SIETI) | |
| 446  | BORGO  CARILLIA  (PERSANO) | |
| 447  | PERITO | |
| 448  | ORRIA | |
| 449  | GIUNGANO | |
| 450  | MAGLIANO  VETERE | |
| 451  | MONTE  S.  GIACOMO | |
| 452  | NOCERA  SUPERIORE | |
| 453  | OGLIASTRO  CILENTO | |
| 454  | OLEVANO  TUSCIANO | |
| 455  | MONTECORVINO,  ST.  (BELLIZZI) | |
| 456  | CONTORSI,  ST | |
| 457  | ROMAGNANO,  ST.  (ROMAGNANO) | |
| 458  | SICIGLIANO,  ST.  (SCORZO) | |
| CODE | LOCALITY |
|------|----------|
| 001  | TARANTO  |
| 002  | CASTELLANETA |
| 003  | GINOSA   |
| 004  | NOCI     |
| 005  | BARI     |
| 006  | SAVA     |
| 007  | LIZZANO  |
| 008  | BRINDISI |
| 009  | LATIANO  |
| 010  | LECCE    |
| 011  | COPERTINO |
| 012  | GRAVINA DI PUGLIA |
| 013  | ALTAMURA |
| 014  | MOTTOLA  |
| 015  | GIORGIO IONICO, S |
| 016  | MAN DU RIA |
| 017  | ISCHITELLA |
| 018  | VICO DEL GARGANO |
| 019  | LUCERÀ |
| 020  | FOGGIA   |
| 021  | CERIGNOLA |
| 022  | TRINITAPOLI |
| 023  | CANOSA DI PUGLIA |
| 024  | ANDRIA   |
| 025  | GALATINA |
| 026  | MOLFETTA |
| 027  | BITONTO |
| 028  | GIOVINAZZO |
| 029  | CASSANO DELLE MURGE |
| 030  | ACQUAVIVA DELLE FONTI |
| 031  | RUTIGLIANO |
| 032  | CONVERSANO |
| 033  | FRANCAVILLA FONTANA |
| 034  | GROTTAGLIA |
| 035  | GIOIA DEL COLLE |
| 036  | SAMMICHELE DI BARI |
| 037  | CEGLIE MESSAPICO |
| 038  | MAGLIE |
| 039  | MASSAFRA |
| 040  | GALLIPOLI |
| 041  | NARDO |
| 042  | SPINAZZOLA |
| 043  | SANTERAMO IN COLLE |
| 044  | BARLETTA |
| 045  | MINERVINO MURGE |
| 046  | RUVO DI PUGLIA |
| 047  | ASCOLI SATRIANO |
| 048  | ROCCHETTA S. ANTONIO |
| 049  | FAETO |
| 050  | CELLE S. VITO |
| 051  | ORSARA DI PUGLIA |
| 052  | BOVINO |
| 053  | PANNI |
| 054  | MONTELEONE DI PUGLIA |
| 055  | ACCADIA |
| 056  | ANZANO DI PUGLIA |
| 057  | CANDELA |
| 058  | CASTELLUCCIO DE' SAURI |
| 059  | ORDONA |
REGIONAL MACROSEISMIC FIELD, ECC.

SEGUE

CODE LOCALITY

060 ORTA NOVA
061 STORNARA
062 STORNARELLA
063 FERDINANDO DI PUGLIA, S.
064 TRANI
065 BISCEGLIE
066 CORATO
067 TELIZZI
068 POGGIORSINI
069 MODUGNO
070 PALO DEL COLLE
071 GRUMO APPULA
072 BITETTO
073 LATERZA
074 VALENZANO
075 ADELFIA <
076 SANNICANDRO DI BARI ... TRIGGIANO
078 MOLA DI BARI
079 TURI
080 PALAGIANO
081 CASTELLANA GROTTE
082 POLIGNANO A MARE
083 PUTIGNANO
084 ALBEROBELLO
085 CRISPIANO
086 MONOPOLI
087 FASANO
088 LOCOROTONDO
089 MARTINA FRANCA
090 OSTUNI
091 CAROVIGNO
092 VITO DEI NORMANNI, S.
093 FRAGAGNANO
094 PULSANO
095 TALSANO
096 MARUGGIO
097 AVETRANA
098 TUTURANO
099 CELLINO S. MARCO
100 TORCHIAROLO
101 SQUINZANO
102 SURBO
103 NOVO LI
104 PANCRAZIO SALENTINO, S.
105 VEGLIE
106 PORTO CESARIO
107 ARNESANO
108 DONATO DI LECCE, S.
109 MELEDUGNO
110 MARTIGNAGNO
111 CARPIGNANO SALENTINO
112 STERNATIA
113 GALATONE
114 SANNICOLA
115 ALEZIO
116 MATINO
117 TAVIANO
118 TAURISANO
| CODE | LOCALITY          | GRADE | NOTE |
|------|------------------|-------|------|
| 119  | CASARANO         | 3-4   | M    |
| 120  | RUFFANO          | 4     | —    |
| 121  | COLLEPASSO       | 3     | M    |
| 122  | CUTROFIANO       | 1     | NF   |
| 123  | NOCIGLIA         | 3-4   | M    |
| 124  | ORTELLE          | 4     | —    |
| 125  | CESAREA TERME. S | 3     | M    |
| 126  | MELPIGNANO       | 5     | M    |
| 127  | PALMARKIGI       | 4-5   | —    |
| 128  | OTRANTO          | 1     | NF   |
| 129  | PALAGJANELLO     | 5     | M    |
| 130  | PARABITA         | 4     | —    |
| 131  | PESCHICI         | 3     | M    |
| 132  | PEZZE DI GRECO   | 5     | M    |
| 133  | PIETRAMONTECORVINO | 6     | M    |
| 134  | POGGIARDO        | 4     | —    |
| 135  | POGGIO IMPERIALE | 3     | M    |
| 136  | PRESICCE         | 5     | M    |
| 137  | ACQUARICA DEL CAPO | 4-5     | —    |
| 138  | RACALE           | 1     | NF   |
| 139  | RIGNANO GARGANICO| 5     | M    |
| 140  | RODI GARGANICO   | 4     | —    |
| 141  | ROSETO VALFORTORE| 3     | M    |
| 142  | ALBERONA         | 5     | M    |
| 143  | SALICE SALENTINO | 3     | M    |
| 144  | MURO LECCESE     | 3     | M    |
| 145  | SANARICA         | 4     | —    |
| 146  | AGATA DI PUGLIA, S | 3     | M    |
| 147  | CASSIANO, S      | 5     | M    |
| 148  | CESARIO DI LECCE, S | 4     | —    |
| 149  | LEQUILE          | 5     | M    |
| 150  | DONACI, S        | 4     | —    |
| 151  | GIOVANNI ROTONDO, S | 5     | M    |
| 152  | MARCO IN LAMIS, S | 6     | M    |
| 153  | MICHELE SALENTINO, S | 4     | —    |
| 154  | SANNICANDRO GARGANICO | 3     | M    |
| 155  | PAOLO DI CIVITATE, S | 5     | M    |
| 156  | PIETRO VERNOTICO, S | 4     | —    |
| 157  | SEVERO, S        | 6     | M    |
| 158  | PIETRO IN LAMA, S | 4     | —    |
| 159  | SCORRANO         | 5     | M    |
| 160  | SERRACAPRIOLA    | 3     | M    |
| 161  | CHIEUTI          | 5     | M    |
| 162  | SOLETO           | 4     | —    |
| 163  | SALVE            | 3     | M    |
| 164  | MORCIANO DI LEUCA | 4     | —    |
| 165  | SPECCHIA         | 3     | M    |
| 166  | MIGGIANO         | 5     | M    |
| 167  | MONTESANO SALENTINO | 4     | —    |
| 168  | SUPERSANO        | 5     | M    |
| 169  | SURANO           | 3     | M    |
| 170  | TROIA            | 6     | M    |
| 171  | TORITTO          | 4     | —    |
| 172  | TORREMAGGIORE    | 3     | M    |
| 173  | TORRE S. SUSANNA | 5     | M    |
| 174  | TREMITI          | 4-5   | —    |
| 175  | TREPUZZI         | 1     | NF   |
| 176  | TRICASE          | 4     | —    |
| 177  | UGENTO           | 5     | M    |
| CODE | LOCALITY           | 1  | 2  |   |
|------|-------------------|----|----|---|
| 1316 | CASTELNUOVO       | 1  | 2  |   |
| 1317 | DI LECCE          | 1  | 2  |   |
| 1318 | CASTRI            | 1  | 2  |   |
| 1319 | DI LECCE          | 1  | 2  |   |
| 1320 | CASTRIGNANO       | 1  | 2  |   |
| 1321 | DEI GRECI         | 1  | 2  |   |
| 1322 | CELENZA           | 1  | 2  |   |
| 1323 | VALFORTORE        | 1  | 2  |   |
| 1324 | MARCO             | 1  | 2  |   |
| 1325 | LA CATOLA, S      | 1  | 2  |   |
| 1326 | CARLANTINO        | 1  | 2  |   |
| 1327 | CISTERNINO        | 1  | 2  |   |
| 1328 | CORIGLIANO        | 1  | 2  |   |
| 1329 | D'OTRANTO         | 1  | 2  |   |
| 1330 | CURSI             | 1  | 2  |   |
| 1331 | DELICETO          | 1  | 2  |   |
| 1332 | ORIA              | 1  | 2  |   |
| 1333 | CASTELLUCCIO      | 1  | 2  |   |
| 1334 | VALMAGGIORE       | 1  | 2  |   |
| 1335 | GINOSA            | 1  | 2  |   |
| 1336 | MARINA            | 1  | 2  |   |
| 1337 | GIURDIGNANO       | 1  | 2  |   |
| 1338 | GUAGNANO          | 1  | 2  |   |
| 1339 | VILLA BALDASSARRI | 1  | 2  |   |
| 1340 | GIUGGIANELLO      | 1  | 2  |   |
| 1341 | LESINA            | 1  | 2  |   |
| 1342 | LIZZANELLO        | 1  | 2  |   |
| 1343 | MANFREDONIA       | 1  | 2  |   |
| 1344 | MARGHERITA        | 1  | 2  |   |
| 1345 | DI SAVOIA         | 1  | 2  |   |
| 1346 | MARTANO           | 1  | 2  |   |
| 1347 | MATTINATA         | 1  | 2  |   |
| 1348 | MELLISSANO        | 1  | 2  |   |
| 1349 | MESAGNE           | 1  | 2  |   |
| 1350 | MINERVINO         | 1  | 2  |   |
| 1351 | DI LECCE          | 1  | 2  |   |
| 1352 | MONTERONI         | 1  | 2  |   |
| 1353 | DI LECCE          | 1  | 2  |   |
| 1354 | NOICATTARO        | 1  | 2  |   |
| CODICE | LOCALITÀ            | NOTE | CODICE | LOCALITÀ            | NOTE | CODICE | LOCALITÀ            | NOTE | CODICE | LOCALITÀ            | NOTE | CODICE | LOCALITÀ            | NOTE |
|--------|---------------------|------|--------|---------------------|------|--------|---------------------|------|--------|---------------------|------|--------|---------------------|------|
| 001    | ARATEA              | 6    | 002    | LAURIA              | 6    | 003    | LAGONEGRO           | 6    | 004    | ROTONDA             | 4    | 005    | MONCALBANO IONICO   | 6    |
| 006    | MONTEMUTTO          | 6    | 007    | BERNALDA            | 5    | 008    | POTENZA             | 7    | 009    | CHIAMONTE           | 6    | 010    | SENISE              | 6    |
| 011    | VIETRI              | 8    | 012    | POCERNO             | -8   | 013    | BRINDISI MONTAGNA   | 7    | 014    | TRIVIGNO            | 7    | 015    | CAMPOMAGGIORE       | 6-7  |
| 016    | SALANDRA-GROTTOLE ST| 6    | 017    | FERRANDINA          | 6    | 018    | POMARICO VECCHIO    | 6    | 019    | PISTICCI ST         | NN   | 020    | METAPONTO           | NN   |
| 021    | SCANZAN'O IONICO    | NN   | 022    | POLICORO            | 0    | 023    | NOVARSI             | ST   | 024    | MATERA             | 0    | 025    | PISTICCI            | 0    |
| 026    | MAURO FORTE. S      |      | 027    | LAURENZANA          | 0    | 028    | LATRONICO           | 0    | 029    | MOLITERO            | 0    | 030    | ANGELI LE FRATTE. S| 0    |
| 031    | MARSICO NUOVO       | 0    | 032    | AVIGLIANO           | 0    | 033    | TRICARICO           | 0    | 034    | TOLVE              | 0    | 035    | ACERENZA           | 0    |
| 036    | ROTONDELLA          | 0    | 037    | VENOSA              | 0    | 038    | VAGLIO BASILICATA   | 0    | 039    | TITO              | 0    | 040    | MELFI              | 0    |
| 041    | RIONERO IN VULTURE  | 0    | 042    | LAVELLO             | 0    | 043    | MONTEMILONE         | 0    | 044    | PALAZZO S. GERVASO | 0    | 045    | FORENZA            | 0    |
| 046    | MURU LUCANO         | 0    | 047    | PIGNOLA             | 0    | 048    | BRIENZA             | 0    | 049    | CALVELLO           | 0    | 050    | NOEPOLI            | 0    |
| 051    | CORLETO PERTICARA   | 0    | 052    | CHIRICO RAPARO. S   | 0    | 053    | MIGLIONICO          | 0    | 054    | CASTELSARACENO      | 0    | 055    | TURSI              | 0    |
| 056    | TERRANOVA POLLINO   | 0    | 057    | ARCANGEL. S         | 0    | 058    | GRASSANO            | 0    | 059    | SEVERINO LUCANO. S  | 0    | 060    | LAVELLO            | 0    |
| 061    | MONTEMILONE         | 0    | 062    | PALAZZO S. GERVASO  | 0    | 063    | FORENZA            | 0    | 064    | MURU LUCANO         | 0    | 065    | PIGNOLA            | 0    |
| 066    | BRIENZA             | 0    | 067    | CALVELLO            | 0    | 068    | NOEPOLI            | 0    | 069    | CORLETO PERTICARA   | 0    | 070    | CHIRICO RAPARO. S  | 0    |
| 071    | MIGLIONICO          | 0    | 072    | CASTELSARACENO      | 0    | 073    | TURSI              | 0    | 074    | TERRANOVA POLLINO   | 0    | 075    | ARCANGEL. S         | 0    |
|        |                     |      |        |                     |      |        |                     |      |        |                     |      |        |                     |      |
| CODE | LOCALITY       | GRADE | NOTE | MAP |
|------|----------------|-------|------|-----|
| 060  | MONTESCAGLIOSO |       |      |     |
| 061  | CRACO          |       |      |     |
| 062  | ANZI           |       |      |     |
| 063  | VIGGIANO       |       |      |     |
| 064  | ATELLA         |       |      |     |
| 065  | RIVELLO        |       |      |     |
| 066  | CASTELLUCCIO   |       |      |     |
| 067  | IN ABRIOLA     |       |      |     |
| 068  | ALIANO         |       |      |     |
| 069  | ARMENTO        |       |      |     |
| 070  | BALVANO        |       |      |     |
| 071  | BARILE         |       |      |     |
| 072  | CANCELLARA     |       |      |     |
| 073  | CARBONE        |       |      |     |
| 074  | CASTRONUOVO DI SANT'ANDREA | | | |
| 075  | GALLICCHIO     |       |      |     |
| 076  | MARSICO VETERE |       |      |     |
| 077  | MARTINO D'ACRI, S | | | |
| 078  | MISSANELLO     |       |      |     |
| 079  | PATERNO        |       |      |     |
| 080  | PIETRAPERTOSA  |       |      |     |
| 081  | ROCCANOVA      |       |      |     |
| 082  | SAPONARA       |       |      |     |
| 083  | SARCONI         |       |      |     |
| 084  | SASSO DI CASTALDA | | | |
| 085  | SPINOSO        |       |      |     |
| 086  | STIGLIANO      |       |      |     |
| 087  | TRAMUTOLA      |       |      |     |
| 088  | POMARICO       |       |      |     |
| 089  | BELLA          |       |      |     |
| 090  | VILLA D'AGRI (MARSICO VET.) | | | |
| 091  | VALSINNI       |       |      |     |
| 092  | PESCOPAGANO    |       |      |     |
| 093  | PAOLO ALBANESE, S | | | |
| 094  | CASTELGRANDE   |       |      |     |
| 095  | RUOTI          |       |      |     |
| 096  | BARAGIANO      |       |      |     |
| 097  | CASTELMEZZANO  |       |      |     |
| 098  | FILIANO        |       |      |     |
| 099  | GROTTOLE       |       |      |     |
| 100  | 1RSINA         |       |      |     |
| 101  | PIETRAGALLA    |       |      |     |
| 102  | RAPONE         |       |      |     |
| 103  | RIPA CANDIDA   |       |      |     |
| 104  | VIGGIANELLO    |       |      |     |
| 105  | RUVO DEL MONTE |       |      |     |
| 106  | FELE, TRECCHINA |     |     |     |
| 107  | SATRIANO DI LUCANIA | | | |
| 108  | SAVOIA DI LUCANIA | | | |
| 109  | STERPITO       |       |      |     |
| 110  | ACCETTURA      |       |      |     |
| 111  | CALCIANO       |       |      |     |
| 112  | COLOBRARO      |       |      |     |
| 113  | GARAGUSO       |       |      |     |
| 114  | GORGOGLIONE    |       |      |     |
| 115  | OLI VETO LUCANO |         | | |
| 116  | GIORGIO LUCANO, S | | | |
| 117  | BANZI          |       |      |     |

**NOTE:** The table continues with more entries, but they are not visible in the provided image.
| CODE | CODEleon | LOCALITY | GRADE | NOTE | MAP |
|------|----------|----------|-------|------|-----|
| 119  |          | ALBANO DI LUCANIA | 6-7   | M    | 1   |
| 120  |          | CASTELLUCCIO UP | 6     | M    | —   |
| 121  |          | Episcopia   | 5     | M    | —   |
| 122  |          | CWESOS1MO   | 6     | M    | —   |
| 123  |          | FRANCAVILLA SUL SINNI | 6     | M    | —   |
| 124  |          | LARDELLA   | 6     | M    | —   |
| 125  |          | GRUMENTO NOVA | 6-7   | M    | 1   |
| 126  |          | GENZANO DI LUCANIA | 6    | M    | 15  |
| 127  |          | OPPIDO LUCANO | 6-7   | M    | 15  |
| 128  |          | CASTELL-LAGOPESOLE | 7     | M    | 52  |
| 129  |          | NEMOL1      | 6     | M    | —   |
| 130  |          | MASCHITO    | 6     | M    | 15  2 |
| 131  |          | COSTANTINO ALBANESE, SNN | 6   | M    | —   |
| 132  |          | RAPOLLA    | 7     | V    | 52  |
| 133  |          | TEANA      | 6     | M    | —   |
| 134  |          | CHIRICO NUOVO, S | 6     | M    | 15  |
| CODE | LOCALITY              | Grade | Note |
|------|-----------------------|-------|------|
| 007  | Piderno               |       |      |
| 008  | Delianuova            |       |      |
| 009  | SCI DO                |       |      |
| 010  | Cristina d'Aspr. Te, S|       |      |
| 013  | Varapodio             |       |      |
| 014  | Polistena             |       |      |
| 023  | Baccalati             |       |      |
| 024  | Lorenzo, S            |       |      |
| 029  | Casalnuovo            |       |      |
| 030  | Palizz i Marina       |       |      |
| 031  | Palizz i              |       |      |
| 032  | Brancaleone           |       |      |
| 033  | Africo Nuovo          |       |      |
| 034  | Bianco                |       |      |
| 046  | Antonimina            |       |      |
| 047  | Canolo                |       |      |
| 048  | Siderno               |       |      |
| 049  | Marina di Gioiosa Ionia|     |      |
| 052  | Trada, S. (Cannitello)|       |      |
| 053  | Rosar no              |       |      |
| 054  | Rizziconi             |       |      |
| 055  | Pellegrina (Bagnara C.)|     |      |
| 060  | Limbadi               |       |      |
| 061  | Gioia Taur o          |       |      |
| 064  | Barlterri             |       |      |
| 065  | Bagnara Marina        |       |      |
| 068  | Laureana di Borrello  |       |      |
| 069  | Vibo Valentia         |       |      |
| 081  | Serra S. Bruno        |       |      |
| 082  | Spadola               |       |      |
| 085  | Briatico              |       |      |
| 089  | Coccorinello (E Coccorino) | | |
| 090  | Ioppolo               |       |      |
| 091  | Nicotera              |       |      |
| 092  | Reggio C., Centro     |       |      |
| 105  | Arasi                 |       |      |
| 106  | Catona                |       |      |
| 125  | Motta S. Giovanni     |       |      |
| 126  | Monte bello Iónico    |       |      |
| 139  | Eufemia d'Aspr., S    |       |      |
| 140  | Cittanova             |       |      |
| 161  | Roccaforte del Greco  |       |      |
| 162  | Pietro Maida,         |       |      |
| 169  | Gerocarne             |       |      |
| 170  | Arena                 |       |      |
| 171  | Dinami                |       |      |
| 172  | Simbario              |       |      |
| 187  | Ardore                |       |      |
| 188  | Filadelfia            |       |      |
| 189  | Amantea               |       |      |
| 190  | Calati                |       |      |
| 191  | Procopio,             |       |      |
| 192  | Cosenza. centro       |       |      |
| 193  | Catanzaro             |       |      |
| 194  | Francavilla Angitola  |       |      |
| 199  | Caterina dello Ionio, S|     |      |
| 200  | Stilo                 |       |      |
| 201  | Grotteria             |       |      |
| CODE | LOCALITY |
|------|----------|
| 01   | Noto     |
| 02   | Monreale |
| 03   | Ronciglione |
| 04   | San Giovanni in Fiore |
| 05   | Santa Flavia |
| 06   | Scilla |
| 07   | Serracapriola |
| 08   | Sibari |
| 09   | Siracusa |
| 10   | Soverato |
| 11   | Taormina |
| 12   | Troina |
| 13   | Tropea |
| 14   | Ugento |
| 15   | Vibo Valentia |
| 16   | Vizzini |

... (more codes and localities listed)
| CODE | LOCALITY                   |
|------|---------------------------|
| 335  | LUZZI                      |
| 336  | STRONGOLI                 |
| 337  | LATTARICO-TORANO, STAZIONE|
| 338  | CERZETO                   |
| 341  | MONGRASSANO               |
| 342  | MARCO ARGENTANO, S        |
| 343  | CETRARO                   |
| 347  | VERBICARO                 |
| 348  | CIRO                       |
| 351  | SOSTENE, S                |
| 352  | SIBARI, STAZIONE          |
| 353  | ACQUAFORMOSA              |
| 354  | LUNGRO                    |
| 355  | ROGGIANO-GRAVINA          |
| 356  | TARSIA                    |
| 357  | SPEZZANO ALBANESE, ST     |
| 358  | CASSANO ALLO IONIO        |
| 359  | CANNA                      |
| 360  | ORIOLO                    |
| 367  | CAMINI                    |
| 368  | CERCHIARA CALABRA         |
| 369  | CAMPANA                   |
| 370  | CARAFFA DI CATANZARO      |
| 414  | RIACE                      |
| 415  | AMARONI                    |
| 416  | PENTONA                    |
| 417  | CICALA                     |
| 432  | PLATACI                   |
| 433  | MONTEGIORDANO             |
| 442  | DONATO DI NINEA, S        |
| 443  | LAINO CASTELLO            |
| 444  | CIVITA                     |
| 445  | AI ETÀ                     |
| 452  | CALOVETO                  |
| 453  | UMBRIATICO                 |
| 454  | SELLIA MARINA             |
| 455  | MARCEDUSA                 |
| 464  | CORNELLE (C.RA CROCE ROMEO)|
| 465  | MONASTERACE MARINA        |
| 474  | CETRARO MARINA (CETRARO)  |
| 475  | CITTADELLA DI C. BONIFATI |
| 518  | ARGUSTO                   |
| 519  | DECOLLATURA               |
| 566  | POLICASTRELLO             |
| 567  | FIRMO                      |
| 574  | CETRARO MARINA (CETRARO)  |
| 575  | CITTADELLA DI C. BONIFATI |
| 584  | RODES (N CS.)             |
| 585  | ROCCHI (SW ROSE AS)       |
| 588  | RENDE, PROFETA (CA CS. A) |
| 589  | ROGLIANO-GRIMALD1, CA     |
| 590  | MARCELLINA                |
| 591  | PAVIGLIANA (S TERRETI)    |
| 610  | MARINA DI CORIGLIANO*     |
| 610  | MARINA DI SCHIAVONEA      |
| 643  | MARINA DI AMENDOLARA      |
| 644  | MARINA DI BADOLATO        |
| 645  | BOTRICELLO                |
| CODE | LOCALITY |
|------|----------|
| 646  | CASTROREGGIO |
| 647  | DORIA |
| 648  | FILIPPO, S. (CETRARO) |
| 649  | MORANO CALABRO |
| 650  | NICOLA ARCELLA, S |
| 651  | PAPASIDERO |
| 652  | PIANOLAGO (ROGLIANO CA) |
| 653  | SERRA PEDACE (PEDACE) |
| 654  | THURIO |
| 655  | CATANZARO MARINA |
| 656  | LORENZO BELLIZZI, S |
| 657  | ORSOMARSO |
| 658  | CASABONA |
| 659  | LAMEZIA TERME |
| 660  | CIRO MARINA |
| CODE | LOCALITY     | GRADE | NOTE | MAP |
|------|--------------|-------|------|-----|
| 289  | ASSORO       | NN    | —    | —   |
| 298  | LEONFORTE    | NN    | —    | —   |
| 299  | CALTANISETTA | NN    | —    | —   |
| 300  | MILITELLO ROSMARINO | 2 | G     | 1 |
| 301  | GERACI       | NF    | G    | 1   |
| 302  | CASTELBUONO  | NN    | —    | —   |
| 303  | PALERMO      | NF    | —    | —   |
| 304  | CAPACI       | NN    | —    | —   |
| 305  | TORRETTA     | NF    | G    | 1   |
| 306  | CARINI       | NN    | —    | —   |
| 307  | ALCAMO       | NF    | G    | 1   |
| 308  | CASTELLAMMARE | NN  | —    | —   |
| 309  | STROMBOLI, GINOSTRA | 3-4 | G    | 1   |
| 310  | TRABIA       | NN    | —    | —   |
| 311  | MIRABELLA IMBACCARI | NN | —    | —   |
| 312  | AGRIGENTO    | +2    | G    | 1   |
| 313  | FARO I P      | NN    | —    | —   |
| 314  | VULCANO PIANO, NW | +NF | —    | —   |
| 315  | CAMASTRA     | 2     | G    | 1   |
| 316  | CASSIBILE    | NN    | —    | —   |
| 317  | MALTA, LAVALLETTA | NN | —    | —   |
| 318  | CAMMARATA    | NF    | G    | 1   |
| 319  | CAMMARATA    | NF    | G    | 1   |
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