

Tables in the supplementary materials

Lithostatigraphic units by Vezzoli (1988): numbers in parenthesis refer to the original legend	Lithostatigraphic units by Sbrana & Toccaceli (2011)	Lithotypes of the Geolithological map
Urban areas (1)	h1 dumps, h2 coastal defense works	RIzz
Recent beach deposits (1)	g2 present and recent beach deposits	SMsp, SMtm
–	b alluvial deposits, ia mixed debris flow-stream flow deposits, ib debris flow-stream flow deposits	SMpi, SMcd, SMfd
Landslides caused by the 1883 earthquake (2)	a1a landslide deposits	GCep
–	a1b ancient landslide deposits	
Slope talus (1)	aa, ab slope deposits, a3 slope debris	GCep, GMep
Reworked pyroclastic deposits of the historical and pre-historical volcanic centers (4)	b2 eluvial and colluvial deposits	MLec, SMec
Monte Rotaro, Castiglione and Monte Tabor volcanic centers (8, 9, 15, 19, 20, 25, 26, 27)	PUT1 Pietra Vono member (breccias), PUT2 Perrone member (lavas), RTA Rotaro lavas, MZO Mezzocammino lavas; SNA2 La Quercia member (ashes and lapilli beds)	SFALS
	BMD Bosco della Maddalena lavas and breccias, BGI Bagnitelli pyroclastics	
	PUZa Cava Puzzillo lavas and PUZb tuffs, TBR Monte Tabor lavas, MIT Mortito lavas, MMH Montagnone lavas	
Landslides deposits with huge blocks of Green Tuff (40)	MZV Mezzavia Vecchia unit	GMtm
Mud-flow deposits only constituted of Colle Jetto Formation fragments (44)	TIL Castiglione epiclastics (“Cafieri” Auctt.)	SMsp
Products from unknown centres (26)	CMI Casamicciola tuffs,	SMpc
–	VLA Villa Arbusto tuffs	SFGRS
–	FUD Fundera lavas,	SFLP

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Landslides deposits with huge blocks of Green Tuff (40)	GSN Grande Sentinella unit, LMO Lacco Ameno unit, PUS Punta del Soccorso unit, BSR Bocca di Serra unit, ic debris flow-stream flow deposits.	GCep, GMep, SMep; CLpl and SWzz (in the subsoil)
Landslides deposits with huge blocks of Green Tuff (40) (<i>pro parte</i>)	PUS Punta del Soccorso unit (<i>pro parte</i>)	SMlh/SWlh (lahar of Forio, <i>sensu</i> DELLA SETA <i>et alii</i> , 2015)
Zaro volcanic center (lavas 6.0+/-2.2 ky) (36, 37)	ZRO2 Zaro lavas, ZRO1 Sciavica member (breccias)	SFLP
Campotese volcanic center (45)	PPZ Panza pyroclastics	SMpc
Scarrupo di Panza and Pilaro volcanic centers: pumice fall breccia (55) , welded scoria layers (58)	SUN Scarrupo di Panza pyroclastics, RUO Russo pyroclastics, PPI Faro Punta Imperatore pyroclastics, SUSHP Schiappa scoria, CPE Cava Pelaria pyroclastics	GWpc, GWsc
Scarrupo di Panza and Pilaro volcanic centers: lavas (54, 56,57)	GMV Grotta del Mavone lavas, RSC Rosicariello lavas, LPR Pilaro lavas	SFLP
—	sms marine sands (only in the subsoil)	SMsp (in the subsoil)
Citara Formation (62)	TSP Serrara-Cava Petrella tuffs, PGI Ciglio pyroclastics, SGL Sant' Angelo tuffs, TCT Citara tuffs, TPR Punta delle Pietre Rosse tuffs, PMT San Montano pyroclastics	SFGRS
Colle Jetto Formation (64)	VEC Cava Leccie unit (marine silt and sand)	SFCO
	TCN Toccaneto unit, CJT Colle Jetto unit, CPM Campomanno unit (marine epiclastic sandstone)	SFGRS

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Monte Epomeo Tuffite (65)	TME Monte Epomeo Green Tuff, SEC Secca d'Ischia pyroclastics	SFGRS
Monte Epomeo Green Tuff (66, 68)	TFS Frassitelli tuff	
	PZE Pizzone tuff, PBC Pietra Bianca ignimbrites, BPT Il Porticello breccia, PPA1 Pignatiello formation (lapillistone and breccias).	
—	ECV Cava Celario unit (marine epiclastic siltstone)	SFGRS
Monte Vico volcanic center (76),	LMV Monte Vico lavas	SFLP
Monte S. Angelo v.c. (77,78)	LCH Punta Chiarito lavas, ELF Elefante pyroclastics, FGN Spiaggia di Agnone pyroclastics, SRG Sorgeto tuffs	
Punta Imperatore v.c. (79, 80)	PIM Punta Imperatore lavas, LCG Capo Negro d'Ischia lavas	
Rione Bocca Lavas (85)	VNU : sub-volcanic Vagnulo unit	

Table S1