



Supplementary Materials

The 2017, Md = 4.0, Casamicciola Earthquake: ESI Scale Evaluation and Implications for the Source Model.

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Table S1. Descriptive sheet of the environmental effects allowed the estimation of the degrees of ESI intensity and the reconstruction of the isoseismal map.

Site number	1
Latitude	40.746131°
Longitude	13.888086°
Locality	Via Fango , Lacco Ameno (NA).
Type of effect	Earth Slide
Description	Drywall collapse for a length of ca. 5 m
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography



Geosciences **2021**, 11, 44 2 of 69



Photographic documentation

Sources of reference	Emergeo Working Group, 2019.
Site number	2
Latitude	40.742495°
Longitude	13.884802°
Locality	Via Borbonica, Lacco Ameno (NA).
Type of effect	Fracturing
Description	On the left, fracturing of small pillars along via Borbonica; the collapse of these was prevented by the metal
Description	scaffolding of the handrail; on the right fracture in the asphalt at the base of the pillars.
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography



Geosciences **2021**, 11, 44 3 of 69





Photographic documentation

Sources of reference	Emergeo Working Group, 2019
Site number	3
Latitude	40.742028°
Longitude	13.887070°
Locality	Via Crateca, Lacco Ameno (NA).
Type of effect	Ground fractures
Description	Coseismic fracturing of the soil that extends for 30 m, through a private property and an asphalted road.
Description	The fracture opening is 1-2 cm.
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography



Satellite image

Geosciences **2021**, 11, 44 4 of 69



Photographic documentation

ESI Intensity
Geomorphic setting



Urban area, hilly topography.

Geosciences **2021**, 11, 44 5 of 69



Satellite image



Sources of reference	Emergeo Working Group, 2019.
Site number	5
Latitude	40.740865°
Longitude	13.886959°
Locality	Via Crateca, Lacco Ameno (NA).
Type of effect	Ground fracture
Description	Ground fracture, E-trending, 10 m long, 2 cm wide, 2-3 cm of vertical offset, down to the N
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography.

Geosciences **2021**, 11, 44 6 of 69



Satellite image



Sources of reference	Emergeo Working Group, 2019.
Site number	6
Latitude	40.741025°
Longitude	13.887702°
Locality	Via Crateca, Lacco Ameno (NA).
Type of effect	Ground fracture
Description	Ground fracture, E-trending, 18 m long, 2 cm wide, 2 cm of vertical offset, down to the N
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography.

Geosciences **2021**, 11, 44 7 of 69



Geosciences **2021**, 11, 44 8 of 69

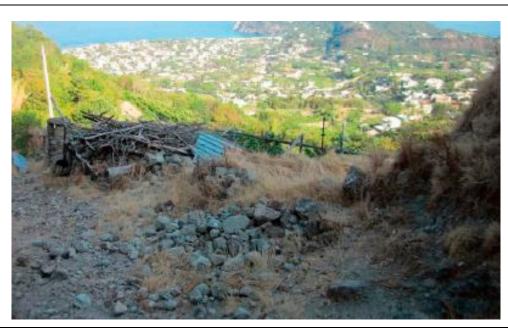


Sources of reference	Emergeo Working Group- 2019.
Site number	7
Latitude	40.736831°
Longitude	13.885297°
Locality	Fumaroles near Pizzone, Lacco Ameno (NA).
Type of effect	Rockfalls
Description	Widespread small rockfalls.
ESI Intensity	IV
Geomorphic setting	Rural area, sparsely populated, hilly topography with steep slopes

Geosciences **2021**, 11, 44 9 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	8
Latitude	40.736814°
Longitude	13.885357°
Locality	Fumaroles near Pantane, Lacco Ameno (NA).
Type of effect	Ground fractures
Description	Ground fractures in loose soil, 30 cm long, opening of few millimiters
ESI Intensity	IV
Geomorphic setting	Rural area, sparsely populated, hilly topography with steep slopes.

Geosciences **2021**, 11, 44



Satellite image

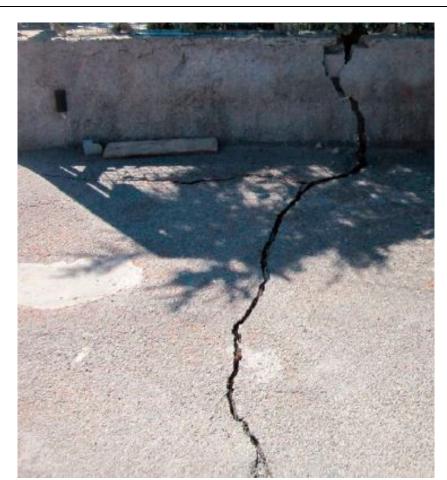


Sources of reference	Emergeo Working Group - 2019.
Site number	9
Latitude	40.742222°
Longitude	13.887901°
Locality	Via dei Carri, Lacco Ameno (NA).
Type of effect	Ground fractures
Description	Fracturing of the road pavement, also affecting the adjacent wall. The fracture extends for about ten meters,
Description	with an opening of 1-2cm.
ESI Intensity	VII
Geomorphic setting	Urban area, mostly plain topography

Geosciences **2021**, 11, 44 11 of 69



Satellite image



Photographic documentation

Geosciences **2021**, 11, 44

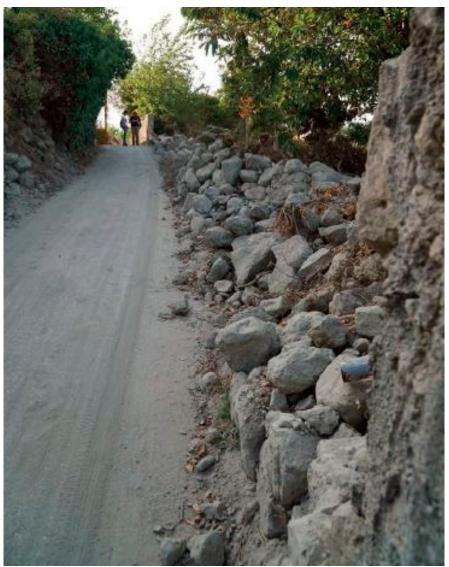


Sources of reference	Emergeo Working Group - 2019.
Site Number	10
Latitude	40.741903°
Longitude	13.888114°
Locality	Via dei Carri, Lacco Ameno (NA).
Type of effect	Earth Slide
Description	Drywall (parracina) collapse for a length of ca. 10 m
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography.



Satellite image

Geosciences **2021**, 11, 44



Sources of reference	Emergeo Working Group- 2019.
Site number	11
Latitude	40.741478°
Longitude	13.888903°
Locality	Via dei Carri, Lacco Ameno (NA).
Type of effect	Earth slide
Description	Collapse of a dry stone wall that surrounded a badly damaged house
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 14 of 69

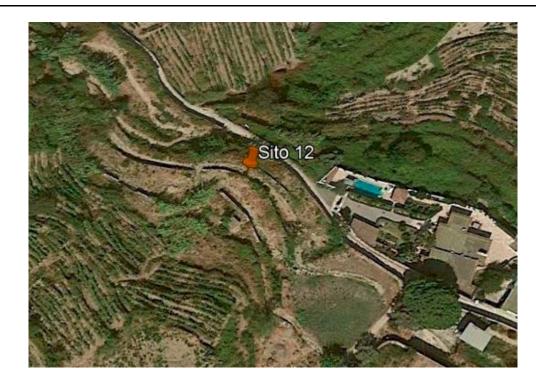


Satellite image



Sources of reference	Emergeo Working Group - 2019.
Site number	12
Latitude	40.740609°
Longitude	13.889906°
Locality	Via dei Carri, Lacco Ameno (NA).
Type of effect	Earth slide
Description	Drywall (parracina) collapse for a length of about 5m.
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Area scarsamente popolata. Zona collinare.

Geosciences **2021**, 11, 44 15 of 69



Satellite image



Sources of reference	Emergeo Working Group - 2019.
Site number	13
Latitude	40.739369°
Longitude	13.893487°
Locality	Via dei Carri, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Drywall (parracina) collapse for a length of 2 m
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Sparsely inhabited, hilly area, with steep slopes.

Geosciences **2021**, 11, 44



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	14
Latitude	40.739136°
Longitude	13.894196°
Locality	Via dei Carri, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Collapse of drywalls (parracine), on both sides od the road
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Sparsely inhabited, hilly area, with steep slopes.

Geosciences **2021**, 11, 44 17 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	15
Latitude	40.739102°
Longitude	13.894529°
Locality	Via dei Carri, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of the soil, a couple of meters long and with an opening of about 1cm; vertical offset of 1-2cm, down to the N
ESI Intensity	V
Geomorphic setting	Sparsely inhabited, hilly area, with steep slopes.

Geosciences **2021**, 11, 44 18 of 69



Geosciences **2021**, 11, 44



Sources of reference	Emergeo Working Group- 2019.
Site number	16
Latitude	40.739117°
Longitude	13.895028°
Locality	Via dei Carri, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing in volcanic deposits, 1-2 m long, with an opening of about 1cm.
ESI Intensity	V
Geomorphic setting	Sparsely inhabited, hilly area, with steep slopes.

Geosciences **2021**, 11, 44 20 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	17
Latitude	40.742180°
Longitude	13.890433°
Locality	Via Montecito, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing in the concrete of a sidewalk. The fracture extends for several meters, following the anchoring of the pillars of a handrail. It has an opening of less than 1 cm, but shows a vertical displacement of 1-2 cm, down to the N

Geosciences **2021**, 11, 44 21 of 69

ESI Intensity VI
Geomorphic setting Area urbana. Zona collinare.



Geosciences **2021**, 11, 44 22 of 69

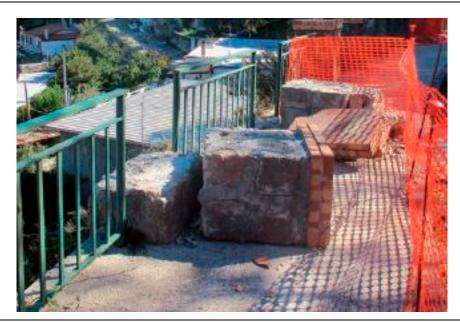


Sources of reference	Emergeo Working Group- 2019.
Site number	18
Latitude	40.741051°
Longitude	13.893538°
Locality	Via Montecito, Casamicciola Terme (NA)
Type of effect	Ground fracture
	Fracture and overturning of a small masonry pillar, forming part of a handrail, on the side of the road. At the
Description	base of the pillars there is a fracture in the concrete, with a vertical component of a couple of centimeters, down
	to the N
ESI Intensity	VI
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 23 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	19
Latitude	40.740769°
Longitude	13.894643°
Locality	Via Montecito, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of the soil, of about 20 m, which also extends into a concrete pavement. The fracture has a variable
Description	opening of 1-2 cm.
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 24 of 69



Geosciences **2021**, 11, 44 25 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	20
Latitude	40.740833°
Longitude	13.894542°
Locality	Via Montecito, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracture about 50 cm long, which extends into the concrete pavement of the road, and continues into the side
	wall. The opening varies from 1 cm in the ground to 2-3 cm in the masonry.
ESI Intensity	VI
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 26 of 69



Satellite image



Photographic documentation

Sources of reference	Emergeo Working Group- 2019.	
Site number	21	
Latitude	40.740876°	
Longitude	13.894627°	

Geosciences **2021**, 11, 44 27 of 69

Locality	Via Montecito, Casamicciola Terme (NA).
Type of effect	Fractures
Description	Fracturing, displacement and rotation of a small masonry pillar, which is part of a handrail, on the side of the road.
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography



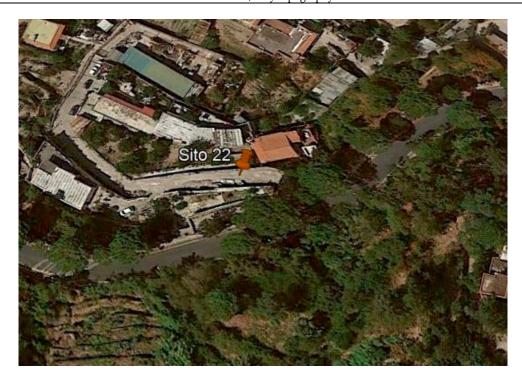
Satellite image



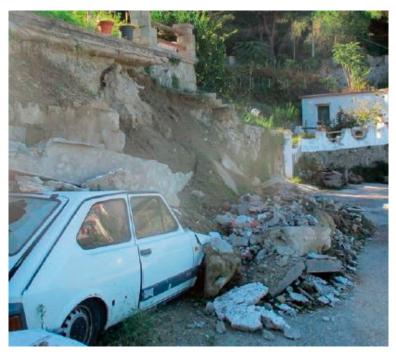
Sources of reference	Emergeo Working Group- 2019.
Site number	22
Latitude	40.740934°
Longitude	13.894751°

Geosciences **2021**, 11, 44 28 of 69

Locality	Via Montecito, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Collapse of a dry stone wall that surrounded a badly damaged house. The collapse affects about 5 m of the building.
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography



Satellite image



Sources of reference	Emergeo Working Group- 2019.	
Site number	23	
Latitude	40.743664°	
Longitude	13.895713°	

Geosciences **2021**, 11, 44 29 of 69

Locality	Via D'Aloisio, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracture of the concrete pavement, which extends for about 10 m: the fracture has an opening of 1 cm and a
Description	vertical displacement of 2cm, down to the N
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography



Geosciences **2021**, 11, 44 30 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	24
Latitude	40.743854°
Longitude	13.897108°
Locality	Via D'Aloisio, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracture in incoherent soil extending for 1 m, with an opening of 1-2 cm.
ESI Intensity	V
Geomorphic setting	Urban area. Own garden. Flat area.

Geosciences **2021**, 11, 44 31 of 69



Geosciences **2021**, 11, 44 32 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	25
Latitude	40.743476°
Longitude	13.897395°
Locality	Via D'Aloisio, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Drywall (parracina) collapse for a length of ca. 5-6 m.
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 33 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	26
Latitude	40.743093°
Longitude	13.898186°
Locality	Via D'Aloisio, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Drywall (parracina) collapse for a length of ca. 3-4 m.
ESI Intensity	Data reported because located in the immediate vicinity of ground effects

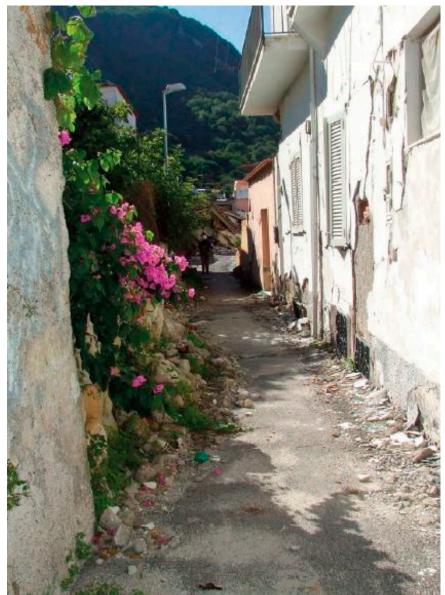
Geosciences **2021**, 11, 44 34 of 69

Geomorphic setting

Urban area, hilly topography



Geosciences **2021**, 11, 44 35 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	27
Latitude	40.743097°
Longitude	13.898661°
Locality	Via D'Aloisio, Casamicciola Terme (NA).
Type of effect	Ground fracture
Description	Fracturing of the paved soil which extends for about one meter and continues in the adjacent masonry wall. The
	opening of the fracture is less than 1 cm in the flooring, and about 2-3 cm in the low wall.
ESI Intensity	VI
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 36 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	28
Latitude	40.742505°
Longitude	13.899797°
Locality	Via D'Aloisio, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of a paved road. The fractures extends for about 20 m, with an opening of no more than 1 cm, and
	continue into the wall of a severely damaged house.
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 37 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	29
Latitude	40.742574°
Longitude	13.900215°
Locality	Via D'Aloisio, Casamicciola Terme (NA).
Type of effect	Column rotation
Description	A slight rightward rotation of the upper part of a column is observed.
ESI Intensity	Data reported because located in the immediate vicinity of ground effects

Geosciences **2021**, 11, 44 38 of 69

Geomorphic setting

Urban area, residential building, hilly topography



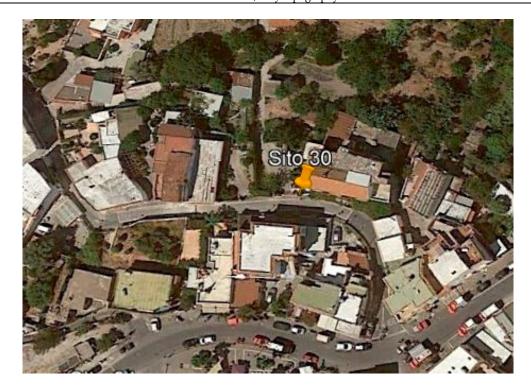
Satellite image



Sources of reference	Emergeo Working Group- 2019.	
Site number	30	
Latitude	40.742580°	
Longitude	13.900307°	
Locality	Via D'Aloisio, Casamicciola Terme (NA).	
Type of effect	Ground fractures	

Geosciences **2021**, 11, 44 39 of 69

	Fracturing of the concrete road pavement, which continues in the adjacent wall. The fracture has an opening
Description	of no more than 1cm in the ground, while it increases up to 2-3 cm in the low wall. There is also a dislocation of
	about 2 cm of the wall covering
ESI Intensity	VI
Geomorphic setting	Urban area, hilly topography



Geosciences **2021**, 11, 44 40 of 69

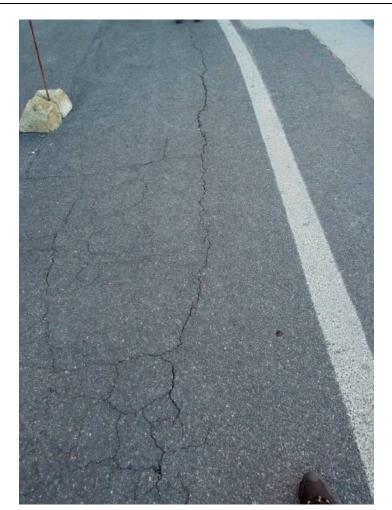


Sources of reference	Emergeo Working Group- 2019.
Site number	31
Latitude	40.742054°
Longitude	13.899618°
Locality	Via Montecito, Casamicciola Terme (NA).
Type of effect	Ground fractures
	Fracture of the asphalt road surface, approximately 10 m long, with an opening of 1 cm. Fracturing is
Description	observed along a stretch of road on the side of which the neighboring buildings have collapsed or severely
_	damaged.
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 41 of 69



Satellite image



Geosciences **2021**, 11, 44 42 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	32
Latitude	40.745316°
Longitude	13.903518°
Locality	Via Castanito, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracture of the asphalt road surface, which extends for about 5m and has an opening of no more than 1 cm
ESI Intensity	VI
Geomorphic setting	Urban area, hilly topography



Geosciences **2021**, 11, 44 43 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	33
Latitude	40.743056°
Longitude	13.902477°
Locality	Via Sassolo, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of the cemented soil in front of a house. The fracture extends for 5m, showing an opening of les
	than 1 cm and a vertical dislocation of 1 cm, down to tre north
ESI Intensity	VI
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 4 of 69



Geosciences **2021**, 11, 44 45 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	34
Latitude	40.742514°
Longitude	13.902068°
Locality	Via Ottringolo, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of an asphalted road, which extends for about 2 m, with opening and vertical displacement not
Description	exceeding 1 cm
ESI Intensity	VI
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 46 of 69



Geosciences **2021**, 11, 44 47 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	35
Latitude	40.742491°
Longitude	13.901988°
Locality	Via Ottringolo, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Collapse of a dry wall several meters long, connected to a badly damaged house
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 48 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.	
Site number	36	
Latitude	40.742529°	
Longitude	13.901086°	
Locality	Piazza Maio, Casamicciola Terme (NA).	
Type of effect	Earth slide	
Description	Collapse of several drywalls, which caused the interruption of the road. The walls collapsed for a length of $4-5~\mathrm{m}$	

Geosciences **2021**, 11, 44 49 of 69

ESI Intensity	
Geomorphic setting	

Data reported because located in the immediate vicinity of ground effects



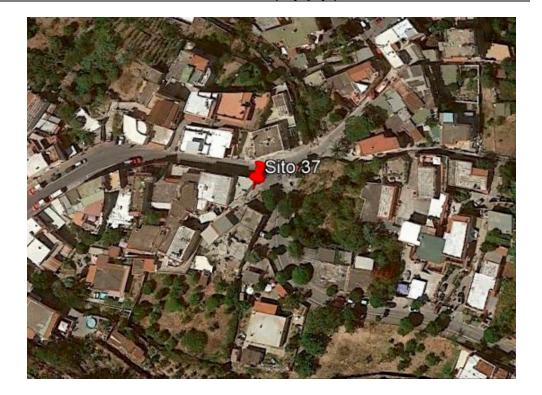
Satellite image



Sources of reference	Emergeo Working Group- 2019.	
Site number	37	
Latitude	40.742357°	
Longitude	13.901784°	
Locality	Via Speziera, Casamicciola Terme (NA).	
Type of effect	Ground fractures	

Geosciences **2021**, 11, 44 50 of 69

	Fracturing of the road at the intersection of the roads Spezieria, Ottringolo and Santa Barbara. The fracture
Description	extends for 5-6 m, also affecting the adjacent houses and causing the collapse of the wall of a house. A vertical
	offset of the fracture of 2-3 cm down to the north is observed.
ESI Intensity	VII
Coomorphic setting	Urhan area, hilly tonography



Satellite image



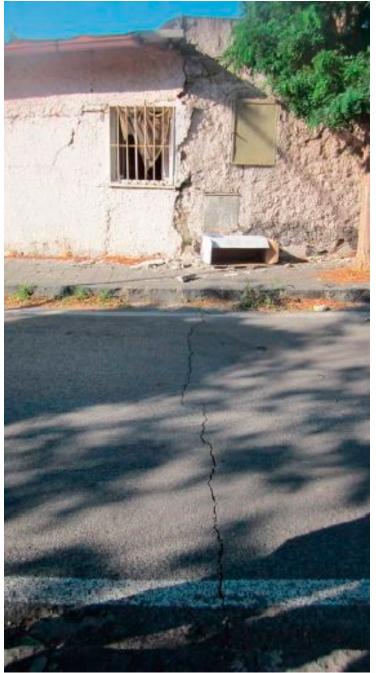
Sources of reference	Emergeo Working Group- 2019.
Site number	38
Latitude	40.741991°

Geosciences **2021**, 11, 44 51 of 69

Longitude	13.902195°
Locality	Via Santa Barbara, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of the asphalt road; the fracture extends for 5 m, crossing sidewalks, streets and buildings. It has an opening of 1 cm
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography



Geosciences **2021**, 11, 44 52 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	39
Latitude	40.742104°
Longitude	13.902934°
Locality	Via Santa Barbara, Casamicciola Terme (NA).
Type of effect	Ground fractures
D 11	Fracturing of incoherent soil that extends for 20 m in the garden of a house. The fracture has an opening of 2-3
Description	cm. A subsidence of the soil is observed north of the fracture
ESI Intensity	VII
Geomorphic setting	Courtyard of a house, urban area, hilly topography

Geosciences **2021**, 11, 44 53 of 69



Geosciences **2021**, 11, 44 54 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	40
Latitude	40.742345°
Longitude	13.903753°
Locality	Via Nizzola, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Collapse of a drywall (parracina) for a length of 5 m
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 55 of 69



Geosciences **2021**, 11, 44 56 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	41
Latitude	40.742459°
Longitude	13.904303°
Locality	Via Nizzola, Casamicciola Terme (NA).
Type of effect	Ground fractyres
Description	Fracture of the asphalt road, which extends for about 2 m, with an opening of less than 1 cm
ESI Intensity	V
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 57 of 69



Satellite image

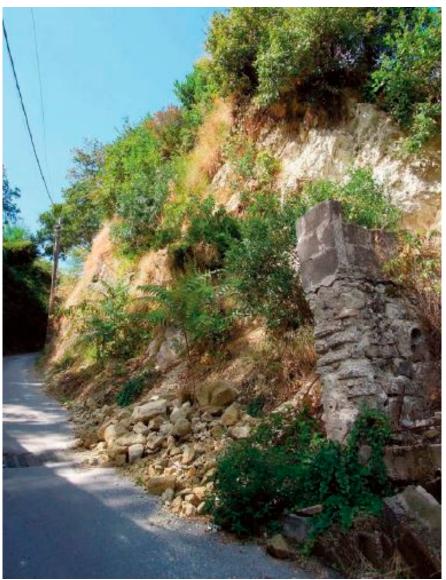


Sources of reference	Emergeo Working Group- 2019.
Site number	42
Latitude	40.742511°
Longitude	13.906498°
Locality	Via Nizzola, Casamicciola Terme (NA).
Type of effect	Earth slide
Description	Collapse of a dry stone wall (parracina) for a section about 3 m long
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 58 of 69



Geosciences **2021**, 11, 44 59 of 69

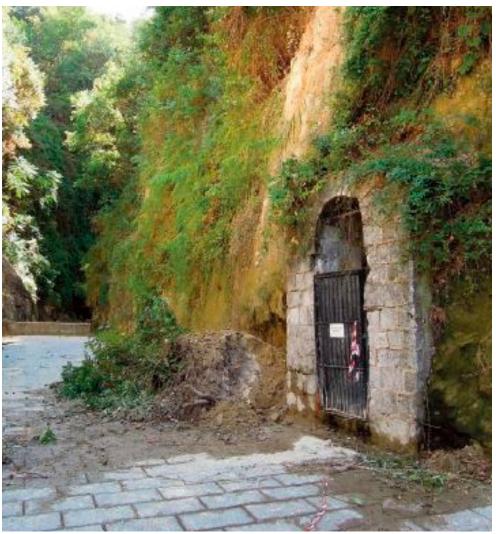


Sources of reference	Emergeo Working Group- 2019.
Site number	
Site number	43
Latitude	40.741983°
Longitude	13.907134°
Locality	Via Nizzola, Casamicciola Terme (NA).
Type of effect	Landslide
Description	Landslide of modest size in volcanoclastic deposits
ESI Intensity	IV
Geomorphic setting	Rural area, sparsely populated, hilly topography with steep slopes

Geosciences **2021**, 11, 44 60 of 69



Geosciences **2021**, 11, 44 61 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	44
Latitude	40.739411°
Longitude	13.906299°
Locality	Via Campomanno, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of the asphalt road; the fracture extends for 100 m, with an opening of 1 cm
ESI Intensity	VII
Geomorphic setting	Rural area, sparsely populated, hilly topography with steep slopes

Geosciences **2021**, 11, 44 62 of 69



Geosciences **2021**, 11, 44 63 of 69



Sources of reference	Emergeo Working Group- 2019.
ite number	45
Latitude	40.739919°
Longitude	13.905659°
Locality	Via Campomanno, Casamicciola Terme (NA).
Type of effect	Landslide
Description	Landslide of modest size in volcanoclastic deposits
ESI Intensity	IV
Geomorphic setting	Rural area, sparsely populated, hilly topography with steep slopes

Geosciences **2021**, 11, 44 64 of 69



Satellite image



Sources of reference	Emergeo Working Group- 2019.
Site number	46
Latitude	40.740213°
Longitude	13.903796°
Locality	Via Campomanno, Casamicciola Terme (NA).
Type of effect	Rockfalls
Description	Fall of rocks from the Mount Epomeo slope; boulders have modest dimensions, which do not exceed 50 cm in diameter

Geosciences **2021**, 11, 44 65 of 69

ESI Intensity Geomorphic setting

Rural area, sparsely populated, hilly topography with steep slopes



Satellite image



Sources of reference	Emergeo Working Group- 2019.	
Site number	47	
Latitude	40.741168°	
Longitude	13.903835°	
Locality	Via Campomanno, Casamicciola Terme (NA).	
Type of effect	Earth slide	

Geosciences **2021**, 11, 44 66 of 69

Description	Collapse of a dry stone wall (parracina), for a length of about 10 m
ESI Intensity	Data reported because located in the immediate vicinity of ground effects
Geomorphic setting	Urban area, hilly topography



Satellite image

Geosciences **2021**, 11, 44 67 of 69



Sources of reference	Emergeo Working Group- 2019.
Site number	48
Latitude	40.741468°
Longitude	13.900964°
Locality	Via Santa Barbara, Casamicciola Terme (NA).
Type of effect	Ground fractures
Description	Fracturing of the soil involving the road surface, the garden and the paved terrace of the adjacent house.
	The fracture extends for a hundred meters, with a maximum opening of 4 cm. In some points a vertical
	displacement of a couple of centimeters is observed, down to the north
ESI Intensity	VII
Geomorphic setting	Urban area, hilly topography

Geosciences **2021**, 11, 44 68 of 69



Satellite image



Photographic documentation

Geosciences **2021**, 11, 44 69 of 69



Sources of reference

Emergeo Working Group- 2019.