

Report on the main results of the surveillance under article 17 for annex I habitat types (Annex D)

CODE: 8320

NAME: Fields of lava and natural excavations

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Estimate based on expert opinion with no or minimal sampling (1)
1.1.3 Year or period	2005-2012
1.1.4 Additional map	No
1.1.5 Range Map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published

Mediterranean (MED)

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1).

"Biondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

<http://vnr.unipg.it/habitat/>Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., Casella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione LazioISPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000.ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnetISPRA, 2005. Dati del sistema informativo di Carta della Natura alla scala 1:50.000.Loppi S. & Bonini I., 2000 – Lichens and mosses as biomonitors of trace elements in areas with thermal springs and fumarole activity (Mt. Amiata, Italy).Chemosphere, 41: 1333-1336Papini F., Gianguzzi L., Brullo S., Bianco P. M., Angelini P., 2006. Carta degli habitat della Regione Sicilia per il sistema informativo di Carta della Natura alla scala 1:50.000. Dipartimento di Scienze Botaniche dell'Università degli Studi di Palermo - Dipartimento di Botanica dell'Università degli Studi di Catania - Regione Sicilia – ISPRA"

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2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area - Range (km ²)	6100	
2.3.2 Range method used	Estimate based on expert opinion with no or minimal sampling (1)	
2.3.3 Short-term trend period	2001-2012	
2.3.4 Short-term trend direction	stable (0)	
2.3.5 Short-term trend magnitude	min	max
2.3.6 Long-term trend period		
2.3.7 Long-term trend direction	N/A	
2.3.8 Long-term trend magnitude	min	max
2.3.9 Favourable reference range	area (km ²)	
	operator	approximately equal to (≈)
	unknown	No
	method	
2.3.10 Reason for change	genuine change	No
	improved knowledge	Yes
	different method	Yes

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	92,9		
2.4.2 Year or period	2005-2012		
2.4.3 Method used	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.4 Short-term trend period	2001-2012		
2.4.5 Short-term trend direction	stable (0)		
2.4.6 Short-term trend magnitude	min	max	confidence interval
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.8 Long-term trend period			
2.4.9 Long-term trend direction	N/A		
2.4.10 Long-term trend magnitude	min	max	confidence interval
2.4.11 Long term trend method used	N/A		
2.4.12 Favourable reference area	area (km) operator approximately equal to (≈) unknown No method		
2.4.13 Reason for change	Improved knowledge/more accurate dataUse of different method		

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
volcanic activity (L01)	high importance (H)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
discontinuous urbanisation (E01.02)	medium importance (M)	N/A
walking, horseriding and non-motorised vehicles (G01.02)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A

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collapse of terrain, landslide (L05)	medium importance (M)	N/A
mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Discharges (E03)	medium importance (M)	N/A

2.5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling(2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
volcanic activity (L01)	high importance (H)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
discontinuous urbanisation (E01.02)	medium importance (M)	N/A
walking, horseriding and non-motorised vehicles (G01.02)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Discharges (E03)	medium importance (M)	N/A

2.6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling(1)

2.7 Complementary Information

2.7.1 Species

Anthemis aetnensis
Crassula basaltica
Cyperus polystachyus
Rumex aetnensis
Saponaria sicula
Senecio aetnensis
Scleranthus aetnensis
Scleranthus vulcanicus
Senecio glaber
Silene vulgaris subsp. Aetnensis
Silene vulgaris subsp. Tenoreana
Tanacetum siculum
Viola aethnensis
Artemisia campestris subsp. Variabilis
Glaucium flavum

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Kichxia cirrhosa

Scrophularia canina subsp. Bicolor

Verbascum rotundifolium

Stereocaulon vesuvianum

Grimmia spp.

2.7.2 Species method used Selected by ISPRA's expert from bibliographical and field research

2.7.3 Justification of % - thresholds for trends

2.7.4 Structure and functions - methods used Estimate based on expert opinion with no or minimal sampling(1)

2.7.5 Other relevant information

2.8 Conclusions (assessment of conservation status at end of reporting period)

2.8.1 Range assessment Favourable(FV)
qualifiers N/A

2.8.2 Area assessment Favourable(FV)
qualifiers N/A

2.8.3 Specific structures and functions (incl Species) assessment Favourable(FV)
qualifiers N/A

2.8.4 Future prospects assessment Favourable(FV)
qualifiers N/A

2.8.5 Overall assessment of Conservation Status Favourable(FV)

2.8.5 Overall trend in Conservation Status N/A

3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²) min 85,7074 max 85,7074

3.1.2 Method used Complete survey/Complete survey or a statistically robust estimate (3)

3.1.3. Trend of surface area N/A

3.2 Conversation Measures