

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

0.1 Member State	IT
0.2.1 Species code	1591
0.2.2 Species name	<i>Helianthemum caput-felis</i>
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	N/A

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Complete survey/Complete survey or a statistically robust estimate (3)
1.1.3 Year or period	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 sources

Mediterranean (MED)

The present species assessment (fields 0.1-2.9) has been compiled by Stefania Ercole and Valeria Giacanelli (Institute for Environmental Protection and Research - ISPRA). Information, unpublished data and experts' judgments have been provided by: Gianni Bacchetta (University of Cagliari) and Giuseppe Fenu (University of Cagliari).

AGULLÓ J.C., JUAN A., ALONSO M.Á., CRESPO M.B., 2011 – *Helianthemum caput-felis* Boiss. In: BAÑARES Á., BLANCA G., GÜEMES J., MORENO J.C., ORTIZ S. (eds.), Atlas y Libro Rojo de la Flora vascular amenazada de España. Addenda 2010: 76-77. Dirección General de Medio natural y política Forestal (Ministerio de Medio ambiente, y Medio Rural y Marino) - Sociedad Española de Biología de la Conservación de Plantas. Madrid.

ARRIGONI p.v., 1971 – *Helianthemum caput-felis* Boiss. (2n=24) nuovo reperto per la flora italiana. Webbia, 26(1): 237-242.

BACCHETTA G., 2001 – *Helianthemum caput-felis* Boiss. In: PIGNATTI S., MENEGONI P., GIACANELLI V. (eds.), Liste rosse e blu della flora italiana. ANPA, Roma.

BOLÒS O., VIGO J., 1984-2001 – Flora dels Països Catalans, 1-4. Editorial Barcino, Barcelona.

CONTI F., ABBATE G., ALESSANDRINI A., BLASI C., (Eds.) 2005 – An annotated Checklist of the Italian Vascular Flora. Palombi Editori, Roma.

CONTI F., MANZI A., PEDROTTI F., 1997 - Liste Rosse Regionali delle Pianta d'Italia. WWF Italia. Società Botanica Italiana. Università di Camerino. Camerino. 139 pp.

FENU G., SULIS E., COGONI D., BACCHETTA G., 2012. *Helianthemum caput-felis* Boiss. Inf. Bot. Ital. 44(1): 233-236.

FENU G., BACCHETTA G. 2008 – La flora vascolare della Penisola del Sinis (Sardegna Occidentale). Acta Bot. Malacit., 33: 91-124.

FENU G., MATTANA E., 2011. Conservation studies on threatened endemic plants of the Mediterranean area: a literature overview for Sardinia. Fitosociologia 48(1) suppl. 1: 5-12.

GARGANO D., FENU G., MEDAGLI P., SCIANDRELLO S., BERNARDO L., 2007 – The

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status of *Sarcopoterium spinosum* (Rosaceae) at the western periphery of its range: ecological constraints lead to conservation concerns. *Isr. J. Plant Sci.*, 55(1): 1-13.

GONZÁLEZ GARCÍA J.A., GARCÍA PEÑA H., CABO HERNÁNDEZ J.M., 2003 – La flora Silvestre de Melilla. Consejería Medio Ambiente, Ciudad Autónoma de Melilla.

LÓPEZ GONZÁLEZ G., 2003. *Helianthemum* Mill. In: C. CASTROVIEJO S. (ed.) (1986-2011). *Flora Iberica*,

MATTANA E., FENU G., BACCHETTA G., 2012. Regional responsibility for plant conservation: the 2010 GSPC Target 8 in Sardinia. *Plant Biosystems* 146(3): 649–653.

RAYNAUD c., 1999 – Cistaceae. In: FENNANE M., IBN TATTOU M., MATHEZ J., OUYAHYA A., EL OUALIDI J. (eds.), *Flore Pratique du Maroc. Manuel de détermination des plantes vasculaires*, 1: 302-326. Trav. Inst. Scient., Université Mohammed v, s. Bot. 36. Rabat.

ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013. *Lista Rossa della Flora Italiana*. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

SÁEZ L., ROSSELLÓ J.A., 2001 – *Libre Vermell de la flora vascular de les Illes Balears*. Consejería Medi ambient. Govern de les Illes Balears. Palma de Mallorca.

SCOPPOLA A., SPAMPINATO G. (eds.), 2005 - *Atlante delle specie a rischio di estinzione*. Versione 1.0. CD-Rom enclosed to the volume: SCOPPOLA A., BLASI C. (eds.), *Stato delle conoscenze sulla flora vascolare d'Italia*. Palombi Editori. Roma.

SERRA L., 2007 – *Estudio crítico de la Flora Vascular de la Provincia de Alicante: aspectos nomenclaturales, Biogeográficos y de Conservación*. *Ruizia*, 19: 1-1414.

SOCIETÀ BOTANICA ITALIANA, 2012. *Valutazione nazionale della categoria di rischio di estinzione per specie vegetali di pregio e di interesse conservazionistico*. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Società Botanica Italiana (dati inediti).

TÉBAR F.J., GIL L., LLORENS L., 1997 – Reproductive biology of *Helianthemum apenninum* (L.) Mill. And *H. caput-felis* Boiss. (Cistaceae) from Mallorca (Balearic Islands, Spain). *Acta Bot. Malacit.*, 22: 53-63.

Volumen 3. Real Jardín Botánico, c.S.I.c., Madrid, Spagna.

2.3 Range		
2.3.1 Surface area - Range (km²)	200	
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)	
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	N/A	
2.3.7 Long-term trend direction	min	max
2.3.8 Long-term trend magnitude	area (km²)	
2.3.9 Favourable reference range	operator	approximately equal to (≈)
	unkown	No
	method	Expert judgment
2.3.10 Reason for change	Use of different method	

2.4 Population

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2.4.1 Population size (individuals or agreed exception)	Unit	N/A		
	min		max	
2.4.2 Population size (other than individuals)	Unit	number of localities (localities)		
	min	4	max	5
2.4.3 Additional information	Definition of locality	localities= sites where the presence of the species is confirmed		
	Conversion method			
	Problems	no data available for the number of individuals		
2.4.4 Year or period	2012			
2.4.5 Method – population size	Complete survey/Complete survey or a statistically robust estimate (3)			
2.4.6 Short-term trend period	2001-2012			
2.4.7 Short term trend direction	decrease (-)			
2.4.8 Short-term trend magnitude	min		max	confidence interval
2.4.9 Short-term trend method	Estimate based on partial data with some extrapolation and/or modelling (2)			
2.4.10 Long-term trend period				
2.4.11 Long term trend direction	N/A			
2.4.12 Long-term trend magnitude	min		max	confidence interval
2.4.13 Long-term trend method	N/A			
2.4.14 Favourable reference population	number			
	operator	more than (>)		
	unknown	No		
	method	Expert judgment		
2.4.15 Reason for change	Improved knowledge/more accurate data	Use of different method		
2.5 Habitat for the Species				
2.5.1 Surface area - Habitat (km²)				
2.5.2 Year or period				
2.5.3 Method used - habitat	Absent data (0)			
2.5.4 a) Quality of habitat	Moderate			
2.5.4 b) Quality of habitat - method	Expert based			
2.5.5 Short term trend period	2001-2012			
2.5.6 Short term trend direction	decrease (-)			
2.5.7 Long-term trend period				
2.5.8 Long term trend direction	N/A			
2.5.9 Area of suitable habitat (km²)				
2.5.10 Reason for change				
2.6 Main Pressures				
Pressure		ranking	pollution qualifier(s)	
forest planting on open ground (B01)		medium importance (M)	N/A	
non intensive grazing (A04.02)		medium importance (M)	N/A	
Mining and extraction activities not referred to above (C01.07)		low importance (L)	N/A	
Outdoor sports and leisure activities, recreational activities (G01)		high importance (H)	N/A	
collapse of terrain, landslide (L05)		high importance (H)	N/A	
off-road motorized driving (G01.03.02)		high importance (H)	N/A	

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Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Cultivation (A01)	medium importance (M)	N/A

2.6.1 Method used – pressures based exclusively or to a larger extent on real data from sites/occurrences or oth

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Cultivation (A01)	medium importance (M)	N/A
non intensive grazing (A04.02)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	high importance (H)	N/A
collapse of terrain, landslide (L05)	high importance (H)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

- 1) Italian Red List (2013): CR. Assessment criteria: B1ab(i,ii,iii,v) + B2ab(i,ii,iii,v)
Published in: FENU G., SULIS E., COGONI D., BACCHETTA G., 2012. *Helianthemum caput-felis* Boiss. Inf. Bot. Ital. 44(1): 233-236.
ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013. Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.
- 2) Ex-situ conservation: Sardinian Seed Bank (BG-SAR) of Biodiversity Conservation Centre of Cagliari (CCB), Sardinia.
Source: FENU G., SULIS E., COGONI D., BACCHETTA G., 2012. *Helianthemum caput-felis* Boiss. Inf. Bot. Ital. 44(1): 233-236.

2.8.3 Trans-boundary assessment

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

2.9.1 Range	assessment Favourable (FV) qualifiers N/A
2.9.2. Population	assessment Inadequate (U1) qualifiers declining (-)
2.9.3. Habitat	assessment Inadequate (U1) qualifiers declining (-)
2.9.4. Future prospects	assessment Inadequate (U1) qualifiers declining (-)
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	declining (-)

3. Natura 2000 coverage and conservation measures - Annex II species

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3.1 Population

3.1.1 Population Size	Unit	N/A
	min	max

3.1.2 Method used	Absent data (0)
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3.1.3 Trend of population size within	N/A
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3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Specific single species or species group management measures (7.4)	Recurrent	medium importance (M)	Inside	Maintain Long term

Species name: *Helianthemum caput-felis* (1591)

Field label	Note	User
1.1.1 Distribution Map	<p>Data sources:</p> <p>SOCIETÀ BOTANICA ITALIANA, 2012. Valutazione nazionale della categoria di rischio di estinzione per specie vegetali di pregio e di interesse conservazionistico. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Società Botanica Italiana (dati inediti).</p> <p>FENU G., BACCHETTA G. 2008 – La flora vascolare della Penisola del Sinis (Sardegna Occidentale). Acta Bot. Malacit., 33: 91-124.</p> <p>FENU G., SULIS E., COGONI D., BACCHETTA G., 2012. <i>Helianthemum caput-felis</i> Boiss. Inform. Bot. Ital. 44(1): 233-236.</p> <p>REGIONE AUTONOMA SARDEGNA, Ass. Difesa Ambiente, SAVI - 2008/2009 - Realizzazione della rete di monitoraggio dello stato di conservazione degli habitat e delle specie di interesse comunitario della Sardegna.</p>	ISPRA_F LORA

Species name: *Helianthemum caput-felis* (1591) Region code: MED

Field label	Note	User
2.5.6 Short term trend direction	<p>Sulla base dei monitoraggi realizzati dal 2006 ad oggi, è stato possibile osservare una progressiva frammentazione e riduzione della qualità dell'habitat.</p> <p>Da: FENU G., SULIS E., COGONI D., BACCHETTA G., 2012. <i>Helianthemum caput-felis</i> Boiss. Inf. Bot. Ital. 44(1): 233-236.</p>	ISPRA_F LORA
2.4.7 Short term trend direction	<p>"a causa del degrado dell'habitat e dei fenomeni franosi registrati nell'ultimo decennio, si è osservata una riduzione del numero d'individui maturi nei principali popolamenti".</p> <p>Da: FENU G., SULIS E., COGONI D., BACCHETTA G., 2012. <i>Helianthemum caput-felis</i> Boiss. Inf. Bot. Ital. 44(1): 233-236.</p>	ISPRA_F LORA
2.4.1a Population size (individuals or agreed exception) - Unit	<p>Sulla consistenza delle popolazioni sarde non vi sono stime esaustive.</p> <p>Da: FENU G., SULIS E., COGONI D., BACCHETTA G., 2012. <i>Helianthemum caput-felis</i> Boiss. Inf. Bot. Ital. 44(1): 233-236.</p> <p>Viene riportato il dato relativo a una sola delle popolazione sarde, la più meridionale, composta da soli 5 individui. Da: FENU G., BACCHETTA G. 2008 – La flora vascolare della Penisola del Sinis (Sardegna Occidentale). Acta Bot. Malacit., 33: 91-124.</p>	ISPRA_F LORA