

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

CODE: 2110

NAME: Embryonic shifting dunes

## 1. National Level

### 1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Estimate based on partial data with some extrapolation and/or modelling (2)
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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato (SBI).

Angelini P., Augello R., Bianco P.M., Gennaio R., La Ghezza V., Lavarra P., Marrese M., Papallo O., Perrino V. M., Sani R., M. Stelluti. 2012. Carta degli habitat della Regione Puglia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa Puglia

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., Camarda I., Carta L., Brunu A., Brundu G., Laureti L., Angelini P., Bagnaia R., 2011. Carta degli habitat della Regione Sardegna per il sistema informativo di Carta della Natura alla scala 1:50.000. Dipartimento di Scienze Botaniche Ecologiche e Geologiche dell'Università degli Studi di Sassari - ISPRA - Regione Sardegna

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 Lazio

ISPRA, 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 - SINAnet

ISPRA, 2005. Dati del sistema informativo di Carta della Natura alla scala 1:50.000.

Papini 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

Prisco I., Acosta A.T.R., Ercole S., 2012. An overview of the Italian coastal dune

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EU habitats. Ann. Bot. 2: 39-48

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

2.3.1 Surface area - Range (km <sup>2</sup> )	34200	
2.3.2 Range method used	Estimate based on partial data with some extrapolation and/or modelling (2)	
2.3.3 Short-term trend period	2001-2012	
2.3.4 Short-term trend direction	decrease (-)	
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 <sup>2</sup> )	
	operator	much more than (>>)
	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)	74,13		
2.4.2 Year or period	2005-2012		
2.4.3 Method used	Estimate based on partial data with some extrapolation and/or modelling (2)		
2.4.4 Short-term trend period	2001-2012		
2.4.5 Short-term trend direction	decrease (-)		
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	much more than (>>)	
	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)
roads, motorways (D01.02)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Landfill, land reclamation and drying out, general (J02.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A

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dispersed habitation (E01.03)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
Roads, paths and railroads (D01)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
Erosion (K01.01)	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)
roads, motorways (D01.02)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Landfill, land reclamation and drying out, general (J02.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
dispersed habitation (E01.03)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
Roads, paths and railroads (D01)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	medium importance (M)	N/A
invasive non-native species (I01)	medium importance (M)	N/A
Erosion (K01.01)	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

Elytrigia juncea (= Agropyron junceum)
Sporobolus pungens (= S. virginicus)
Otanthus maritimus
Medicago marina
Anthemis maritima
Anthemis tomentosa
Eryngium maritimum
Echinophora spinosa
Calystegia soldanella
Cyperus capitatus

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Polygonum maritimum

Silene corsica

Lotus commutatus

## 2.7.2 Species method used

List from field "combinazione fisionomica di riferimento" of habitat's form in: Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009; <http://vnr.unipg.it/habitat/>)

## 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 Bad( U2)  
qualifiers N/A

### 2.8.2 Area

assessment Bad( U2)  
qualifiers N/A

### 2.8.3 Specific structures and functions (incl Species)

assessment Bad( U2)  
qualifiers N/A

### 2.8.4 Future prospects

assessment Bad( U2)  
qualifiers N/A

### 2.8.5 Overall assessment of Conservation Status

Bad( U2)

### 2.8.5 Overall trend in Conservation Status

stable(=)

## 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 14,93411 max 14,93411

#### 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

#### 2.1 Biogeographical Region

#### 2.2 Published

### Continental (CON)

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 and Liliana Zivkovic (SBI). Biondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D,

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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.

Brentan D., Burbello A., Avanzi E., Gasparini S., Laureti L., Bianco P.M., 2008. Carta degli habitat della regione Veneto per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa Veneto. [http://www.isprambiente.gov.it/site/it-IT/Servizi\\_per\\_l%27Ambiente/Sistema\\_Carta\\_della\\_Natura](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura)

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 Lazio

ISPRA, 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 - SINAnet

Oriolo G., Dragan M., Ferneti M., Francescato C., Tomasella M., Giorgi R. 2007. Carta degli habitat della regione Friuli Venezia Giulia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA-Regione Friuli Venezia Giulia. [http://www.isprambiente.gov.it/site/it-IT/Servizi\\_per\\_l%27Ambiente/Sistema\\_Carta\\_della\\_Natura](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura)

Pesaresi S, Biondi E, Casavecchia S, Catorci A, Foglia M., 2007. Il Geodatabase del Sistema Informativo Vegetazionale delle Marche. Fitosociol 44 (2) suppl. 1: 95-101 <http://www.ortobotanico.univpm.it/cartography>

Prisco I., Acosta A.T.R., Ercole S., 2012. An overview of the Italian coastal dune EU habitats. Ann. Bot. 2: 39-48

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

2.3.1 Surface area - Range (km <sup>2</sup> )	6800
2.3.2 Range method used	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
2.3.4 Short-term trend direction	decrease (-)
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 <sup>2</sup> ) operator more than (>) unknown No method
2.3.10 Reason for change	genuine change No improved knowledge Yes different method Yes

## 2.4 Area covered by Habitat

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2.4.1 Surface area (km <sup>2</sup> )	20,05
2.4.2 Year or period	2005-2012
2.4.3 Method used	Estimate based on partial data with some extrapolation and/or modelling (2)
2.4.4 Short-term trend period	2001-2012
2.4.5 Short-term trend direction	decrease (-)
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 much more than (>>) 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)
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Tramplng, overuse (G05.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
walking, horseriding and non-motorised vehicles (G01.02)	medium importance (M)	N/A
Dykes, embankments, artificial beaches, general (J02.12)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A

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

Threat	ranking	pollution qualifier(s)
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Tramplng, overuse (G05.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
walking, horseriding and non-motorised vehicles (G01.02)	medium importance (M)	N/A
Dykes, embankments, artificial beaches, general (J02.12)	low importance (L)	N/A
Discharges (E03)	low importance (L)	N/A

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

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

## 2.7.1 Species

Agropyron junceum ssp. Mediterraneum

Sporobolus pungens (= S. arenarius; più recentemente indicato come S. virginicus)

Euphorbia peplis

Otanthus maritimus

Medicago marina

Eryngium maritimum

Echinophora spinosa

Calystegia soldanella

Cyperus capitatus

Polygonum maritimum

Lotus creticus

Spartina juncea

## 2.7.2 Species method used

List from field "combinazione fisionomica di riferimento" of habitat's form in: Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009; <http://vnr.unipg.it/habitat/>)

## 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 Inadequate( U1)  
qualifiers N/A

### 2.8.2 Area

assessment Bad( U2)  
qualifiers N/A

### 2.8.3 Specific structures and functions (incl Species)

assessment Bad( U2)  
qualifiers N/A

### 2.8.4 Future prospects

assessment Bad( U2)  
qualifiers N/A

### 2.8.5 Overall assessment of Conservation Status

Bad( U2)

### 2.8.5 Overall trend in Conservation Status

stable( =)

## 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 11,9321 max 11,9321

#### 3.1.2 Method used

Complete survey/Complete survey or a statistically robust estimate (3)

#### 3.1.3. Trend of surface area

N/A

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

## 3.2 Conversation Measures



## Habitat code: 2110

Field label	Note	User
1.1.1 Distribution Map	La presenza degli Habitat 2230, 2110 e 2120 è strettamente correlata da un collegamento di tipo catenale. Si è tenuto conto di questo contatto catenale per individuare la distribuzione di questi tre habitat in Sicilia, Sardegna e in Calabria	ISPRA_habitat

## Habitat code: 2110 Region code: CON

Field label	Note	User
2.7.5 Other relevant information	L'habitat all'interno della Riserva Naturale Sacca di Bellocchio è in forte riduzione (probabilmente scomparso).	ISPRA_habitat

## Habitat code: 2110 Region code: MED

Field label	Note	User
2.8.4 a) Conclusion future prospects	Le prospettive future per gli habitat costieri sono cattive in peggioramento come conseguenza di fattori di impatto antropico legate al turismo balneare e alla infrastrutturazione del territorio costiero nonché alla erosione delle coste.	ISPRA_habitat