



NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),
Proposed Sites for Community Importance (pSCI),
Sites of Community Importance (SCI) and
for Special Areas of Conservation (SAC)

SITE IT0000002
SITENAME Palinuro Seamount

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1. SITE IDENTIFICATION

1.1 Type B	1.2 Site code IT0000002	Back to top
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1.3 Site name

Palinuro Seamount

1.4 First Compilation date 2017-09	1.5 Update date -
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1.6 Respondent:

Name/Organisation:	Ministero dell'Ambiente e della Sicurezza Energetica - Direzione generale patrimonio naturalistico e mare
Address:	Via Cristoforo Colombo, 44 - 00147 Roma
Email:	PNM@pec.mite.gov.it

1.7 Site indication and designation / classification dates

Date site classified as SPA:	0000-00
National legal reference of SPA designation	No data

2. SITE LOCATION

2.1 Site-centre location [decimal degrees]:

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Longitude 14.8083	Latitude 39.4833
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2.2 Area [ha]: 6367.0	2.3 Marine area [%]: 100.0
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2.4 Sitelength [km]:

2.5 Administrative region code and name

NUTS level 2 code

Region Name

ITZZ

Extra-Regio

2.6 Biogeographical Region(s)

Mediterranean (100.0
%)

3. ECOLOGICAL INFORMATION

3.1 Habitat types present on the site and assessment for them

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Annex I Habitat types						Site assessment			
Code	PF	NP	Cover [ha]	Cave [number]	Data quality	A B C D	A B C		
						Representativity	Relative Surface	Conservation	Global
1170			6366.5		M	A	C	A	A

- **PF:** for the habitat types that can have a non-priority as well as a priority form (6210, 7130, 9430) enter "X" in the column PF to indicate the priority form.
- **NP:** in case that a habitat type no longer exists in the site enter: x (optional)
- **Cover:** decimal values can be entered
- **Caves:** for habitat types 8310, 8330 (caves) enter the number of caves if estimated surface is not available.
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation)

3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them

Species					Population in the site					Site assessment				
G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D. qual.	A B C D	A B C		
						Min	Max				Pop.	Con.	Iso.	Glo.
R	1224	Caretta caretta			p				P	DD	D			

- **Group:** A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Type:** p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)
- **Unit:** i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))
- **Abundance categories (Cat.):** C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information
- **Data quality:** G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

3.3 Other important species of flora and fauna (optional)

Species					Population in the site				Motivation					
Group	CODE	Scientific Name	S	NP	Size		Unit	Cat.	Species Annex		Other categories			
					Min	Max		C R V P	IV	V	A	B	C	D
I		Aplysina cavernicola			0	0		P					X	
F	2486	Carcharodon carcharias			0	0		P					X	
F	3020	Cetorhinus maximus			0	0		P					X	
F	3022	Isurus oxyrinchus			0	0		P					X	
F	3023	Lamna nasus			0	0		P					X	

I		Leiopathes glaberrima			0	0		P			X		X	
F		Odontaspis ferox			0	0		P					X	
I		Parantipathes larix			0	0		P			X		X	
F		Sphyrna lewini			0	0		P					X	
M	2034	Stenella coeruleoalba			0	0		P	X					

- **Group:** A = Amphibians, B = Birds, F = Fish, Fu = Fungi, I = Invertebrates, L = Lichens, M = Mammals, P = Plants, R = Reptiles
- **CODE:** for Birds, Annex IV and V species the code as provided in the reference portal should be used in addition to the scientific name
- **S:** in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes
- **NP:** in case that a species is no longer present in the site enter: x (optional)
- **Unit:** i = individuals, p = pairs or other units according to the standard list of population units and codes in accordance with Article 12 and 17 reporting, (see [reference portal](#))
- **Cat.:** Abundance categories: C = common, R = rare, V = very rare, P = present
- **Motivation categories:** IV, V: Annex Species (Habitats Directive), A: National Red List data; B: Endemics; C: International Conventions; D: other reasons

4. SITE DESCRIPTION

4.1 General site character

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Habitat class	% Cover
N01	100.0
Total Habitat Cover	100

Other Site Characteristics

Il monte sottomarino Palinuro è costituito da un complesso di vulcani sottomarini, sito a circa 65 chilometri di distanza dalle coste del Cilento, che si erge dalle profondità del bacino tirrenico meridionale, fino a raggiungere, nei pressi della sua sommità, la profondità minima di circa 70 metri (Marani & Gamberi, 2004). Il pinnacolo superficiale è circondato da un pianoro di circa 2 chilometri di diametro, formatosi in seguito a processi erosivi durante l'ultimo periodo glaciale (Passaro et al., 2011). Le rocce basaltiche del Palinuro si sono formate circa 0,8-0,35 Ma (Beccaluva et al., 1985). L'attività vulcanica è ancora debolmente presente. Sorgenti idrotermali a bassa temperatura (60°) sono state osservate lungo il lato occidentale del vulcano, alla profondità di circa 650 metri. In concomitanza di questi fenomeni è stata descritta la presenza di rari esemplari di policheti Siboglinidi (Pogonofori) (Petersen et al., 2008). (Testo sintetizzato da Würtz & Rovere, 2015)

4.2 Quality and importance

La parte più superficiale del cono vulcanico del Palinuro (tra 80 e 90 metri di profondità), esplorata con veicoli robotici (ROV) (Freiwald et al., 2011 e Bo, pers. observ.), è popolata da un coralligeno ricco e ben strutturato con alghe verdi e alghe corallinacee, cnidari (Eunicella cavolinii, ceriantari, idroidi), policheti (Sabella pavonina, Protula sp.), ascidiacei (Diazona violacea), echinodermi (Holothuria sp., Echinus melo), crostacei decapodi (Palinurus elephas) e pesci (Anthias anthias, Thorogobius ephippiatus, Serranus cabrilla, Aulopus filamentosus e Lappanella fasciata). Tra i 100 e i 260 metri di profondità sono presenti numerose spugne (Axinella spp., Aplysina cavernicola, Pachastrella monilifera, Poecillastra compressa) e numerose altre specie caratteristiche di ambienti mesofotici come gli cnidari Dendrophyllia cornigera, Eunicella cavolinii, Acanthogorgia hirsuta, Corallium rubrum e Bebryce mollis. Nelle zone indagate più profonde (tra i 200 e i 500 metri di profondità) sono state rinvenute numerose colonie di Dendrophyllia cornigera e di coralli neri (Leiopathes glaberrima e Parantipathes larix) (Bo, pers. observ.). Le esplorazioni con ROV hanno consentito di rilevare la presenza di numerose lenze perse, a testimonianza di un'intensa attività di pesca con bolentino e/o palamito di fondo. Il tratto il mare intorno al Palinuro è caratterizzato dalla presenza di numerosi esemplari di stenella striata (Stenella coeruleoalba) (Fiori et al., 2015). Nella sua parte antistante le coste della Calabria tirrenica è segnalata anche la presenza di numerose specie di elasmobranchi (Prionace glauca, Hexanchus griseus, Cetorhinus maximus, Carcharodon carcharias, Isurus oxyrinchus, Carcharhinus brevipinna, Lamna nasus, Odontaspis ferox e Sphyrna lewini) (Sperone et al., 2012). (Testo sintetizzato da Würtz & Rovere, 2015)

4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [i o b]
M	F02.03		i
M	F02.02		i
M	F02.01		i

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside /outside [i o b]

Rank: H = high, M = medium, L = low

Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification,

T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions
i = inside, o = outside, b = both

4.4 Ownership (optional)

4.5 Documentation

Ligi M., Cocchi L., Bortoluzzi G., D’Orlando F., Muccini F., Caratori Tontini F., De ronde C.E.J., Carmisciano C. (2014) - Mapping of seafloor hydrothermally altered rocks using geophysical methods: Marsili and Palinuro seamounts, southern Tyrrhenian Sea. Economic Geology, 109 (8): 2103-2117. Würtz & Rovere (eds) (2015). Atlas of the Mediterranean Seamounts and Seamount-like Structures. Gland, Switzerland and Málaga, Spain: IUCN. 276 pages. - <http://www.iucn.org/mediterranean>

Link(s): <http://www.iucn.org/mediterranean>

5. SITE PROTECTION STATUS (optional)

5.1 Designation types at national and regional level:

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Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
IT00	100.0				

5.2 Relation of the described site with other sites:

5.3 Site designation (optional)

6. SITE MANAGEMENT

6.1 Body(ies) responsible for the site management:

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Organisation:	Ministero dell’Ambiente e della Sicurezza Energetica - Direzione generale patrimonio naturalistico e mare
Address:	Via Cristoforo Colombo, 44 - 00147 Roma
Email:	PNM@pec.mite.gov.it

6.2 Management Plan(s):

An actual management plan does exist:

<input type="checkbox"/> Yes
<input type="checkbox"/> No, but in preparation
<input checked="" type="checkbox"/> No

6.3 Conservation measures (optional)

7. MAP OF THE SITES

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INSPIRE ID:

Map delivered as PDF in electronic format (optional)

Yes No

Reference(s) to the original map used for the digitalisation of the electronic boundaries (optional).

<http://www.emodnet.eu/bathymetry>