



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 PTMAD0009
SITENAME Paul do Mar – Jardim do Mar

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1. SITE IDENTIFICATION

1.1 Type B	1.2 Site code PTMAD0009	Back to top
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1.3 Site name

Paul do Mar – Jardim do Mar

1.4 First Compilation date 2015-12	1.5 Update date -
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1.6 Respondent:

Name/Organisation: Secretaria Regional do Ambiente e Recursos Naturais
Address: Rua Dr. Pestana Júnior n.º 6, 5.º Andar 9064-506 Funchal
Email: gabinete.sra@madeira.gov.pt

Date site proposed as SCI:	2015-12
Date site confirmed as SCI:	No data
Date site designated as SAC:	No data
National legal reference of SAC designation:	No data

2. SITE LOCATION

2.1 Site-centre location [decimal degrees]:

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					Min	Max		C R V P		Pop.	Cons.
B	A432	Anthus berthelotti		r				C		D	
P	1537	Chamaemeles coriacea		p				V	DD	C	C
B	A206	Columba livia		r				C	DD	C	B
B	A455	Columba trocaz		p				C		D	
B	A269	Erithacus rubecula		r				C		D	
B	A096	Falco tinnunculus		r				C		D	
B	A657	Fringilla coelebs all others		r				C		D	
P	1539	Marcetella maderensis		p				V	DD	A	B
P	1579	Maytenus umbellata		p				R	DD	B	B
P	1621	Oenanthe divaricata		p				V	DD	C	C
P	6234	Phagnalon saxatile		p				C	DD	B	B
P	1854	Scilla maderensis		p				R	DD	B	B
B	A450	Serinus canaria		r				C		D	
B	A193	Sterna hirundo		r				C	DD	C	B
B	A311	Sylvia atricapilla		r				C		D	
B	A303	Sylvia conspicillata		r				C		D	
B	A283	Turdus merula		r				C		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
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Group	CODE	Scientific Name	S	NP	Size		Unit	Cat.	Species Annex		Other categories			
					Min	Max			C R V P	IV	V	A	B	C
I		Actinella arcta			0	0		P				X		
I		Actinella lentiginosa lentiginosa			0	0		P				X		
I		Actinella nitidiuscula nitidiuscula			0	0		P				X		
P		Aeonium glandulosum			0	0		C				X		
P		Aeonium glutinosum			0	0		C				X		
P		Aichryson villosum			0	0		C				X		
B	A110	Alectoris rufa			0	0		P						X
I		Amegilla maderae			0	0		P				X		
I		Amphorella tornatellina			0	0		P				X		
P		Andryala glandulosa			0	0		C						X
P		Apollonias barbujana			0	0		R						X
B	A227	Apus pallidus			0	0		P						X
B	A425	Apus unicolor			0	0		P				X		
P		Argyranthemum haematoma			0	0		R				X		
P		Artemisia argentea			0	0		V				X		
I		Boettgeria depauperata			0	0		P				X		
I		Boettgeria exigua			0	0		P				X		
B	A087	Buteo buteo			0	0		P				X		
I		Calliptamus maderae			0	0		P				X		
B	A364	Carduelis carduelis			0	0		P						X
B	A363	Carduelis chloris			0	0		P						X
B	A365	Carduelis spinus			0	0		P						X
P		Carduus squarrosus			0	0		R				X		
P		Carlina salicifolia			0	0		C						X
P		Crambe fruticosa			0	0		C				X		
I		Craspedopoma monizianum			0	0		P				X		
I		Craspedopoma mucronatum			0	0		P				X		
P		Davallia canariensis			0	0		C						X

I		Discula polymorpha polymorpha			0	0		P				X		
I		Disculella maderensis maderensis			0	0		P				X		
I		Disculella maderensis taeniata			0	0		P				X		
I		Disculella spirulina			0	0		P				X		
P		Echium nervosum			0	0		C				X		
P		Entosthodon pulchellus			0	0		V			X			
P		Euphorbia piscatoria			0	0		C				X		
I		Exormotheca pustulosa			0	0		P						X
P		Fissidens coacervatus			0	0		C			X	X		
P		Fissidens sublineaeifolius			0	0		R			X	X		
P		Frullania ericoides			0	0		V						X
P		Frullania polysticta			0	0		P			X	X		
P		Globularia salicina			0	0		C						X
P		Helichrysum melaleucum			0	0		C				X		
I		Hogna heeri			0	0		P				X		
I		Hogna maderiana			0	0		P				X		
P		Hypericum canariensis			0	0		C				X		
P		Jasminum odoratissimum			0	0		R						X
P		Jubula hutchinsiae			0	0		P				X		
B	A604	Larus michahellis			0	0		P						X
P		Laurus novocanariensis			0	0		R						X
I		Leiostyla millegrana			0	0		P				X		
I		Leiostyla recta			0	0		P				X		
I		Leiostyla sphinctostoma			0	0		P				X		
P		Leucodon canariensis			0	0		V			X	X		
P		Mathiola maderensis			0	0		C				X		
P		Micromeria maderensis			0	0		C				X		
B	A261	Motacilla cinerea			0	0		P						X
M	1331	Nyctalus leisleri			0	0		P	X		X			

P		Olea maderensis			0	0		R				X		
B	A357	Petronia petronia			0	0		P						X
P		Phyllis nobla			0	0		R						X
M	2017	Pipistrellus maderensis			0	0		P	X		X			
P		Plantago maderensis			0	0		C				X		
P		Polypodium macaronesicum			0	0		C						X
B	A503	Procellaria diomedea			0	0		P						X
I		Pseudomogoplistes madeirae			0	0		P				X		
B	A504	Puffinus assimilis baroli			0	0		P						X
B	A013	Puffinus puffinus			0	0		P						X
B	A652	Regulus madeirensis			0	0		P				X		X
P		Riccia ciliata			0	0		V			X			
P		Rumex maderensis			0	0		C						X
P		Salix canariensis			0	0		C						X
P		Saxifraga maderensis			0	0		C				X		
P		Sedum nudum			0	0		C				X		
P	1651	Sideroxylon marmulano			0	0		V	X			X		
P		Sonchus ustulatus			0	0		C				X		
B		Streptopelia turtur			0	0		P						X
P		Tamus edulis			0	0		V						X
R	6201	Teira dugesii			0	0		P	X			X		
P		Teucrium heterophyllum ssp. heterophyllum			0	0		R				X		
P		Timmiella barbuloides			0	0		P						X
P		Tolpis succulenta			0	0		C						X
B	A213	Tyto alba			0	0		P						X
P		Wahlenbergia lobelioides ssp. lobelioides			0	0		C						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
N18	30.0
N08	70.0
Total Habitat Cover	100

Other Site Characteristics

É imperativo destacar que este sítio alberga tipos habitat fortemente fragmentados e ameaçados (habitats 5330 e 9320), característicos das cotas mais baixas, tendo sido os habitats terrestres que mais foram impactados pelas atividades humanas desde o início do século XV até à atualidade. A par com estes habitats temos a presença de uma variante de Laurissilvas Macaronésicas (habitat 9360), i.e. laurissilva do barbusano, a qual se encontra na mesma situação de ameaça que os primeiros (habitats 5330 e 9320). Neste sítio são observadas comunidades que se integram no complexo de vegetação climatófila [séries de vegetação] denominado Mayteno umbellatae-Oleo maderensis sigmetum [série do zambujal madeirense]: 1) O clímax (Mayteno umbellatae- Oleetum maderensis) (inclui-se no habitat 9320) corresponde a micro-bosques ou matagais infra-florestais dominados por arbustos paleomediterrânicos esclerófilos, xerofíticos e termófilos como sejam *Olea maderensis*, *Maytenus umbellata*, *Chamaemeles coriacea*, *Dracaena draco*, e *Asparagus scoparius*; 2) O mato de substituição (inclui-se no habitat 5330) do Mayteno-Oleetum maderensis é maioritariamente, em solos medianamente profundos menos erodidos e solos agrícolas abandonados, a comunidade de figueira-do-inferno (*Euphorbietum piscatoriae*); 3) Em solos incipientes (leptosolos) e afloramentos rochosos tende a ocorrer maioritariamente a *Artemisia argenteae-Genistetum tenerae*. Também temos presente neste sítio, resquícios de uma comunidade muito ameaçada e muito rara que se enquadra no complexo de vegetação climatófila [séries de vegetação] denominado *Semele androgynae- Apollonio barbujanae sigmetum*. O clímax é uma floresta (meso-bosque) dominada pela *Apollonias barbujana*, *Laurus novocanariensis*, *Myrica faya* e *Ilex canariensis*, de características termófilas e acusadamente mediterrânicas (*Semele androgynae-Apollonietum barbujanae*) (habitat 9360).

4.2 Quality and importance

Os táxones seguintes: *Andryala glandulosa*, *Apollonias barbujana*, *Carlina salicifolia*, *Davallia canariensis*, *Globularia salicina*, *Hypericum canariensis*, *Jasminum odoratissimum*, *Laurus novocanariensis*, *Phyllis nobla*, *Polypodium macaronicum*, *Rumex maderensis*, *Salix canariensis*, *Tamus edulis*, *Tolpis succulenta*, *Wahlenbergia lobelioides* ssp. *lobelioides* são incluídos na lista de espécies no campo 3.3 pelo facto de se constituírem como elementos estruturantes de vários habitats presentes neste Sítio, bem como serem táxones endémicos da Macaronésia, com exceção do táxone *Polypodium macaronicum*. Assegurar a sobrevivência a longo prazo das espécies pertencentes aos habitats 5330, 9320, e 9360 bem como de espécies que possuem a sua área de distribuição muito restrita tal como a *Marcetella maderensis*, mas também de outras espécies tais como *Chamaemeles coriacea*, *Maytenus umbellatae Phagnalon benettii* (P. lowei) *Scilla maderensis* (*Autonoe madeirensis*).

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]
H	K03.04		b
L	D06		i
L	H07		i

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

M	E01.01		o
L	A04		i
L	K01.01		i
M	J03.02.01		o
L	E01.03		i
M	M01.02		i
M	J03.02.02		o
L	G05		o
L	D01.02		i
L	K03.06		i
M	E06		o
L	E03.01		i
M	M02.01		i
M	I01		i
M	K05.01		i

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

4.5 Documentation

Borges, P.A.V., Abreu, C., Aguiar, A.M.F., Carvalho, P., Jardim, R., Melo, I., Oliveira, P., Sérgio, C., Serrano, A.R.M. & Vieira, P. (eds.) (2008). A list of the terrestrial fungi, flora and fauna of Madeira and Selvagens archipelagos. Direcção Regional do Ambiente da Madeira and Universidade dos Açores, Funchal and Angra do Heroísmo. Cameron RAD, Cook LM (2001). Madeiran snails: Faunal differentiation on a small island, *Journal of Molluscan Studies*, 67:257-267. Costa, J. C., J. Capelo, R. Jardim, M. Sequeira, D. Espírito-Santo, M. Lousã, S. Fontinha, C. Aguiar & S. Rivas-Martínez. 2004. Catálogo sintaxonomico e florístico das comunidades vegetais da Madeira e Porto Santo José Carlos. *Quercetea*6: 61-187 Jardim, R. & M.M. Sequeira. 2010. On *Plantago costae* Menezes a forgotten species of the Madeira Flora. *Silva Lusitana* 18(2): 239 – 246. Jardim, R. & M.M. Sequeira. 2011. *Sonchus parathalassius* J.G. Costa ex R. Jardim & M. Seq., a new species from Porto Santo Island (Madeira Archipelago). *Silva Lusitana* 19(2): 233 – 245. Lobin, W., T. Leyens, A. Santos, H. Costa Neves & I. Gomes. 2005. The genus *Sideroxylon* (Sapotaceae) on the Madeira, Canary Islands and Cape Verde archipelagos. *Vieraea* 33: 119-144. Puppo, P. & H. Meimberg. 2015. New species and new combinations in *Micromeria* (Lamiaceae) from the Canary Islands and Madeira. *Phytotaxa* 230 (1): 1-21. Rivas-Martínez, S., F. Fernández-González, J. Loidi, M. Lousã & A. Penas. 2002. *Olea maderensis* (Lowe) Rivas Mart. & Del Arco comb. nov., p. 705. IN: *Vascular Plant Communities of Spain and Portugal Addenda to the Syntaxonomical Checklist of 2001*. *Itinera Geobotanica* 15(2): 433-922. Seddon MB (2008). An illustrated compendium of the landsnails and slugs of the Madeiran archipelago. *Studies in Biodiversity and Systematics of Terrestrial Organisms from the National Museum of Wales, Biotir Reports*. Seddon MB (2013). *Actinella arcta*. The IUCN Red List of Threatened Species 2013: e.T157099A5035077. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T157099A5035077.en>. Seddon MB (2013). *Actinella nitidiuscula*. The IUCN Red List of Threatened Species 2013: e.T157055A5042372. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T157055A5042372.en>. Seddon MB (2013). *Discula polymorpha*. The IUCN Red List of Threatened Species 2013: e.T156868A5009887. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T156868A5009887.en>. Seddon MB (2013). *Disculella madeirensis*. The IUCN Red List of Threatened Species 2013: e.T6732A12802234. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T6732A12802234.en>. Seddon MB (2013). *Leiostyla millegrana*. The IUCN Red List of Threatened Species 2013: e.T171761A6801799. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T171761A6801799.en>. Seddon MB (2013). *Leptaxis groviana*. The IUCN Red List of Threatened Species 2013: e.T156493A4953615. <http://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T156493A4953615.en>. Teixeira S (2005). “Os morcegos (Mammalia: Chiroptera) do Arquipélago da Madeira: Identificação Morfológica e Acústica. Um Contributo para a sua Conservação”. Tese de Licenciatura. Universidade da Madeira. Funchal. 50pp. Teixeira S (2012). Agreement on the Conservation of Populations of European Bats. Report on Implementation of the Agreement in Autonomous Region of Madeira. In: Agreement on the Conservation of Populations of European Bats. Report on Implementation of the Agreement in Portugal. 2012/17th Advisory Committee Meeting. ICNB. Ministério do Agricultura, Mar, Ambiente e Ordenamento do Território. 46 pp. Teixeira S (2013). Agreement on the Conservation of Populations of European Bats. Report on Implementation of the Agreement in Autonomous Region of Madeira. In: Agreement on The Conservation of Populations of European Bats. Report on Implementation of the Agreement in Portugal. 2013/18th Advisory Committee

Meeting. ICNF. Ministério do Agricultura, Mar, Ambiente e Ordenamento do Território. 43 pp. Teixeira S (2014). Agreement on the Conservation of Populations of European Bats. Report on Implementation of the Agreement in Autonomous Region of Madeira. In: Agreement on The Conservation of Populations of European Bats. Report on Implementation of the Agreement in Portugal. 2014/7th MoP. ICNF. Ministério do Agricultura, Mar, Ambiente e Ordenamento do Território. 74 pp. Teixeira S, Jesus J (2009). Echolocation calls of bats from Madeira Island: Acoustic characterization and implications for surveys. Acta Chiropterologica. 11 (1): 183 - 190. Waldén HW (1983). Systematic and biogeographical studies of the terrestrial gastropoda of Madeira, with an annotated check-list. Annales Zoologica Fennica 20: 255-275.

5. SITE PROTECTION STATUS (optional)

5.1 Designation types at national and regional level:

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Code	Cover [%]	Code	Cover [%]	Code	Cover [%]
PT08	46.0				

5.2 Relation of the described site with other sites:

designated at national or regional level:

Type code	Site name	Type	Cover [%]
PT08	Parque Natural da Madeira	*	46.0

6. SITE MANAGEMENT

6.2 Management Plan(s):

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An actual management plan does exist:

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

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).