# **Information Sheet on Ramsar Wetlands** (RIS)

Categories approved by Recommendation 4.7 (1990), as amended by Resolution VIII.13 of the 8th Conference of the Contracting Parties (2002) and Resolutions IX.1 Annex B, IX.6, IX.21 and IX. 22 of the 9th Conference of the Contracting Parties (2005).

#### Notes for compilers:

- 1. The RIS should be completed in accordance with the attached *Explanatory Notes and Guidelines for completing the Information Sheet on Ramsar Wetlands*. Compilers are strongly advised to read this guidance before filling in the RIS.
- 2. Further information and guidance in support of Ramsar site designations are provided in the *Strategic Framework for the future development of the List of Wetlands of International Importance* (Ramsar Wise Use Handbook 7, 2nd edition, as amended by COP9 Resolution IX.1 Annex B). A 3rd edition of the Handbook, incorporating these amendments, is in preparation and will be available in 2006.
- 3. Once completed, the RIS (and accompanying map(s)) should be submitted to the Ramsar Secretariat. Compilers should provide an electronic (MS Word) copy of the RIS and, where possible, digital copies of all maps.

1.	Name and address of the Official Respondent:	FOR OFFICE USE ONLY.
	Joint Nature Conservation Committee  Monkstone House City Road Peterborough Cambridgeshire PE1 1JY UK Telephone/Fax: +44 (0)1733 - 562 626 / +44 (0)1 Email: RIS@JNCC.gov.uk	Designation date  Designation date  Site Reference Number  733 – 555 948
	Name and address of the compiler of this form: Mike Freeman, Principal Ecologist, States of Jerse Davis Farm, Trinity Jersey, JE3 5JP	ey, Environment Department, Howard
2.	Date this sheet was completed/updated: Designated: 02 February 2005	
3.	Country: UK (Jersey)	
4.	Name of the Ramsar site:	
	Les Minquiers, Jersey	
5.	Designation of new Ramsar site or update of existing	ng site:
Thi	is RIS is for: Updated information on an existing Rams	
6. a) S	For RIS updates only, changes to the site since its diste boundary and area:	lesignation or earlier update:

provided a report in line with paragraph 28 of that Annex, prior to the submission of an updated RIS.

b) Describe briefly any major changes to the ecological character of the Ramsar site, including

in the application of the Criteria, since the previous RIS for the site:

\*\* Important note: If the boundary and/or area of the designated site is being restricted/reduced, the Contracting Party should have followed the procedures established by the Conference of the Parties in the Annex to COP9 Resolution IX.6 and

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#### 7. Map of site included:

Refer to Annex III of the *Explanatory Notes and Guidelines*, for detailed guidance on provision of suitable maps, including digital maps.

- a) A map of the site, with clearly delineated boundaries, is included as:
  - i) **hard copy** (required for inclusion of site in the Ramsar List): yes  $\checkmark$  -or- no  $\square$ ;
  - ii) an electronic format (e.g. a JPEG or ArcView image) Yes
  - iii) a GIS file providing geo-referenced site boundary vectors and attribute tables  $yes \checkmark$  -or- $no \Box$ ;

#### b) Describe briefly the type of boundary delineation applied:

e.g. the boundary is the same as an existing protected area (nature reserve, national park etc.), or follows a catchment boundary, or follows a geopolitical boundary such as a local government jurisdiction, follows physical boundaries such as roads, follows the shoreline of a waterbody, etc.

The site boundary is the same as, or falls within, an existing protected area.

For precise boundary details, please refer to paper map provided at designation

# **8. Geographical coordinates** (latitude/longitude):

048 58 27 N

002 07 14 W

#### 9. General location:

Include in which part of the country and which large administrative region(s), and the location of the nearest large town. The site lies 34 km due south from the port of St Helier in the Channel Island of Jersey. The island is situated in the English Channel, 22.4 km west of Normandy (France) and 136 km south of Weymouth (England).

## **Administrative region:** Jersey

10. Elevation (average and/or max. & min.) (metres): 11. Area (hectares): 9575

Min. -15 Max. 15

Mean No information available

# 12. General overview of the site:

Provide a short paragraph giving a summary description of the principal ecological characteristics and importance of the wetland

The site complex consists of an extensive shoal area approximately 16 km long and 11 km wide. At high tide only rocky heads and a small supralittoral area, La Maitresse Isle (which supports some small stone dwellings), are exposed. The tidal range can exceed 12 m. At low tide various habitats are exposed, including reefs, boulder fields, sandy shores and shingle banks The area is fed clean well-oxygenated water and this factor, together with the range of habitats and the site's biogeographical position supports a wide range of rich and diverse biotopes and some unusual species assemblages. The flora and fauna is characterised by limit-of-range species at the northern and southern margins of their distributions which are not present on shores either to the north or south respectively. Fishing within the site is of great cultural, social and traditional importance to the population of Jersey.

#### 13. Ramsar Criteria:

Circle or underline each Criterion applied to the designation of the Ramsar site. See Annex II of the *Explanatory Notes and Guidelines* for the Criteria and guidelines for their application (adopted by Resolution VII.11).

1, 2, 3, 4, 7, 8

# 14. Justification for the application of each Criterion listed in 13 above:

Provide justification for each Criterion in turn, clearly identifying to which Criterion the justification applies (see Annex II for guidance on acceptable forms of justification).

1. The site has the one of the largest tidal ranges in the world, which can exceed 12 metres, and a wide range of substrata and wave exposure. Its waters are relatively warm due to the influence of the Gulf Stream and surrounding oceanographic conditions. Habitat-based evaluations using comparisons with the nearby South-East Coast of Jersey Ramsar site (designated 2000) indicate that due to the diverse range of habitats, communities and species the site has great ecological value which play a substantial ecological role in the natural functioning of the system.

The extensive rocky intertidal areas in this site are of international importance because of the rarity and possible threats to this type of habitat and its associated communities. Situated in Le Golfe Normano-Breton, in the same region as the Baie de Mont St Michel (designated Ramsar site 1994), the site is part of the last vestiges of a former land bridge to continental Europe and plays a major role in the continued functioning of the Golfe.

2. The site is internationally important because it supports the following vulnerable, endangered or critically endangered species:

Bottlenose dolphin Tursiops truncatus Bern

appendix II; C.M.S. appendix II; EC Habitats Dir. Annex II, IV; CWJ Protected

Common dolphin Delphinus delphis Bern

appendix II; C.M.S. appendix II; CWJ Protected

White-beaked dolphin Lagenorhynchus albirostris Bern

appendix II; C.M.S. appendix II; CWJ Protected

Risso's dolphin Grampus griseus C.M.S appendix II;

Bern appendix II; CWJ Protected

Striped dolphin Stenella coeruleoalba Bern

appendix II; CWJ Protected

Harbour porpoise Phocoena phocoena Bern

appendix II; C.M.S. appendix II; EC Habitats Dir. Annex II; CWJ Protected

Pilot whale Globicephala melas C.M.S. appendix II; Bern appendix II;

**CWJ Protected** 

Atlantic grey seal Halichoerus grypus EC Habitats

Dir. Annex II

Basking shark Cetorhinus maximus IUCN

vulnerable; Bern appendix II

Atlantic salmon Salmo salar EC Habitats Dir.

Annex II

Common sturgeon Acipenser sturio IUCN Red List;

C.M.S. Appendix II; Bern Appendix II

Twaite shad Alosa fallax IUCN Red List; EC

Habitats Dir. Annex II

Short-snouted seahorse Hippocampus hippocampus IUCN

Red List; Bern Appendix II

(CWJ = Conservation of Wildlife (Jersey) Law 2000 (as amended))

3. Jersey is situated in Le Golfe Normano-Breton between England and France on the boundary between the cold and warm temperate marine biogeographical regions. Overlap between these regions promotes increased species richness and provides assemblages which include species at the limits of their respective distributions. Species associated with warmer southern European waters such as ormer *Haliotis tuberculata* which are rare or absent from British coasts thus coexist with at

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those normally associated with colder northern waters such as the beadlet anenome *Actinia equina*. It has been hypothesised that such limit-of-range populations may eventually, through adaptation to local, more extreme environmental conditions than core populations undergo allopatric speciation which arises though reproductive isolation. Monitoring of these habitats for environmental change is therefore crucial (Taylor & Cook 1981). One of the largest breeding populations of bottlenose dolphins *Tursiops truncatus* in the British Isles are recorded in the area.

- 4. The Baie de St Malo experiences huge diurnal movements of relatively warm, closed waters moved by a residual inshore anti-clockwise current around Jersey. This enhances local recruitment of many species of planktonic larvae, especially Crustacea. The large rocky platforms are important to many invertebrate and vertebrate organisms, providing shelter, protection and food for both larval and adult stages. Likewise the rich infaunal communities of the mud and sand flats are important for their range of mollusc and worm species. These areas are important nursery zones for shore and shallow sublittoral fish communities. The wide shallow gullies dividing the rocky platforms also provide critical habitat for many other forms and stages of life as do the extensive and diverse algal assemblages. Different locations within the site support a number of species of wintering and passage waders and wildfowl with important feeding and roosting locations. The number of birds found within the site contribute to Jersey's nationally significant populations of three species, which are great cormorant *Phalocrocorax carbo*, Sandwich tern *Sterna sandvicensis* and European stormpetrel *Hydrobates pelagicus*.
- 7. The areas of shallow water and the large number of intertidal pools within the site provide habitat for many species of fish. The South-East Coast of Jersey surveys recorded 107 marine fish species of which ten are of EU or UK importance and 34 priority marine invertebrates of which 14 are rare or scarce (UK). There is no reason to suppose that this site supports fewer. The enormous water exchanges, strong tidal streams, a wide variety of wave energy conditions and substrate variation provide ideal conditions for the support of a wide diversity of organisms. The combination of biogeographic location, oceanographic circulation and physical features enhances biodisparity. The site contributes to the biodiversity of the Golfe Normano-Breton and thence to the English Channel. Among the most important fish species are sturgeon *Acipenser sturio*, allis shad *Alosa alosa*, twaite shad *Alosa fallax*, basking shark *Cetorhinus maximus*, giant goby *Gobius cobitis*, short-snouted seahorse *Hippocampus hippocampus*, common goby *Pomatoschistus microps*, sand goby *Pomatoschistus minutus*, Atlantic salmon *Salmo salar*.
- 8. The topographical diversity of the site creates a range of sheltered areas which provide conditions favouring recruitment of planktonic larvae. Many species of fish feed and grow in the warm fertile shallows before commencing their autumn migration to spawn elsewhere. Conversely, other species winter in the area and leave during the summer. The site also provides habitat for the entire life cycle of many smaller marine organisms. This wide diversity provides feeding for dolphins and seabirds.

See Sections 21/22 for details of noteworthy species

**15. Biogeography** (required when Criteria 1 and/or 3 and /or certain applications of Criterion 2 are applied to the designation):

Name the relevant biogeographic region that includes the Ramsar site, and identify the biogeographic regionalisation system that has been applied.

a) biogeographic region:

Atlantic

b) biogeographic regionalisation scheme (include reference citation):

EU Habitats Directive 92/43/EEC (as amended)

# 16. Physical features of the site:

Describe, as appropriate, the geology, geomorphology; origins - natural or artificial; hydrology; soil type; water quality; water depth, water permanence; fluctuations in water level; tidal variations; downstream area; general climate, etc.

Soil & geology	Boulder, Clay, Gravel, Igneous, Mud, Peat, Sand, Shingle		
Geomorphology and landscape	Cave/Tunnel, Intertidal rock, Intertidal sediments, Islands,		
	Open coast, Pools, Subtidal rock, Subtidal sediments, Surge		
	gullies		
Nutrient status			
pН			
Salinity	saline / euhaline		
Soil			
Water permanence	usually permanent		
Summary of main climatic features	Annual averages (Jersey, 1961–90) (www.gov.je/faqs.asp)		
	Max. daily temperature: 17° C		
	Min. daily temperature: 6° C		
	Rainfall: 860 mm		
	Hrs. of sunshine: 1915.0		
	The climate of the region is temperate oceanic.		

#### General description of the Physical Features:

The majority of the exposed rock can be termed a foliated granodiorite. It is probable that the area was part of a land bridge to continental Europe which was inundated at the end of the last Ice Age. At low tide rocky reefs, shingle and sand banks are exposed, together with sub-angular to sub-rounded boulders of all sizes, and sedimentary mud, sand and gravel. Underlying peat and clay beds are of likely archaeological significance. Exposed and sheltered rocky shores, rockpools, intertidal overhangs and caves are all present.

The site has the one of the largest tidal ranges in the world which can exceed 12 metres.

# 17. Physical features of the catchment area:

Describe the surface area, general geology and geomorphological features, general soil types, general land use, and climate (including climate type).

n/a

#### 18. Hydrological values:

Describe the functions and values of the wetland in groundwater recharge, flood control, sediment trapping, shoreline stabilization, etc.

Sediment trapping

#### 19. Wetland types:

Marine/coastal wetland

Code	Name	% Area
A	Shallow marine waters	70
D	Rocky shores	28
Е	Sand / shingle shores (including dune systems)	2

#### 20. General ecological features:

Provide further description, as appropriate, of the main habitats, vegetation types, plant and animal communities present in the Ramsar site, and the ecosystem services of the site and the benefits derived from them.

The site contains a diverse array of habitats and micro-habitats. Luxuriant growth of fucoid algae on intertidal rocky platforms, rockpools and gullies with a variety of algae, crustaceans and fish,

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intertidal channels with sponge and ascidian communities and some intertidal sediment communities all occur on the site.

Ecosystem services

#### 21. Noteworthy flora:

Provide additional information on particular species and why they are noteworthy (expanding as necessary on information provided in **12**. Justification for the application of the Criteria) indicating, e.g. which species/communities are unique, rare, endangered or biogeographically important, etc. *Do not include here taxonomic lists of species present – these may be supplied as supplementary information to the RIS.* 

Intertidal rocky platforms bear luxuriant growth of fucoid algae. Stands of kelp *Laminaria* species also occur.

Intertidal rockpools contain dense colonies of the non-native alga *Sargassum muticum*, first recorded in Jersey in 1980.

#### 22. Noteworthy fauna:

Provide additional information on particular species and why they are noteworthy (expanding as necessary on information provided in **12**. Justification for the application of the Criteria) indicating, e.g. which species/communities are unique, rare, endangered or biogeographically important, etc., including count data. *Do not include here taxonomic lists of species present* – these may be supplied as supplementary information to the RIS.

#### **Species Information**

Nationally important species include the molluscs *Modiolus modiolus*, *Haliotis tuberculata*, *Gibbula pennanti* and *Mactra glauca*. Crabs include *Pisa tetraodon* and *Thia scutellata*. The extensive areas of shallow water and huge numbers of intertidal pools found within the site provide habitat for many species of fish such as short-snouted seahorse *Hippocampus hippocampus* and giant goby *Gobius cobitis*.

#### 23. Social and cultural values:

Describe if the site has any general social and/or cultural values e.g. fisheries production, forestry, religious importance, archaeological sites, social relations with the wetland, etc. Distinguish between historical/archaeological/religious significance and current socio-economic values.

Non-consumptive recreation

Sport fishing

Traditional cultural

b) Is the site considered of international importance for holding, in addition to relevant ecological values, examples of significant cultural values, whether material or non-material, linked to its origin, conservation and/or ecological functioning? No

If Yes, describe this importance under one or more of the following categories:

- i) sites which provide a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland:
- ii) sites which have exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland:
- sites where the ecological character of the wetland depends on the interaction with local communities or indigenous peoples:
- iv) sites where relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland:

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# 24. Land tenure/ownership:

Ownership category	On-site	Off-site
National/Crown Estate	+	

# 25. Current land (including water) use:

Activity	On-site	Off-site
Recreation	+	
Fishing: commercial		+
Fishing: recreational/sport	+	

# 26. Factors (past, present or potential) adversely affecting the site's ecological character, including changes in land (including water) use and development projects:

Explanation of reporting category:

- 1. Those factors that are still operating, but it is unclear if they are under control, as there is a lag in showing the management or regulatory regime to be successful.
- 2. Those factors that are not currently being managed, or where the regulatory regime appears to have been ineffective so far.

NA = Not Applicable because no factors have been reported.

Adverse Factor Category	Reporting Category	Description of the problem (Newly reported Factors only)	On-Site	Off-Site	Major Impact?
No factors reported	NA				

What measures have been taker	/ are planned	/ regulatory proces	sses invoked,	to mitigate	the effect of these factors?
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Is the site subject to adverse ecological change? NO

# 27. Conservation measures taken:

List national category and legal status of protected areas, including boundary relationships with the Ramsar site; management practices; whether an officially approved management plan exists and whether it is being implemented.

Conservation measure	On-site	Off-site
Other	+	

# **b)** Describe any other current management practices:

Other - Policy M1 of the Jersey Island Plan 2003 ensures the sustainable use of the Island's marine environment by the designation of a Marine Protection Zone (established 1995) extending from Mean High Water to the territorial limits, as designated on the Island and Town Proposals Maps.

Within this zone there is a presumption against all developments except those which are essential for navigation, access to water, fishing and fish farming and coastal defence.

Major developments require a full environmental impact assessment under the Island's planning laws. A range of sea fisheries regulations apply and are enforced across the site. To deal with the potential for serious damage from marine pollution, an Oil Spill Contingency Plan is in place. Jet-skis are banned from the area.

# 28. Conservation measures proposed but not yet implemented:

e.g. management plan in preparation; official proposal as a legally protected area, etc.

Other - Proposed site of special interest under the Planning (Jersey) Law 1964

#### 29. Current scientific research and facilities:

e.g. details of current research projects, including biodiversity monitoring; existence of a field research station, etc.

Difficulties in accessing the site and resource limitations currently preclude research.

# 30. Current communications, education and public awareness (CEPA) activities related to or benefiting the site:

e.g. visitor centre, observation hides and nature trails, information booklets, facilities for school visits, etc.

An information booklet on the importance of Jersey's Ramsar site is available.

#### 31. Current recreation and tourism:

State if the wetland is used for recreation/tourism; indicate type(s) and their frequency/intensity.

Low-level recreation by visitors from France and Jersey. The increase in these visits is a cause for concern, and negotiations are in progress to control this.

#### 32. Jurisdiction:

Include territorial, e.g. state/region, and functional/sectoral, e.g. Dept. of Agriculture/Dept. of Environment, etc.

Bailiwick of Jersey,

Environment Department, Howard Davis Farm, Trinity Jersey, JE3 5JP

# 33. Management authority:

Provide the name and address of the local office(s) of the agency(ies) or organisation(s) directly responsible for managing the wetland. Wherever possible provide also the title and/or name of the person or persons in this office with responsibility for the wetland.

Principal Ecologist, States of Jersey, Environment Department, Howard Davis Farm, Trinity Jersey, JE3 5JP

#### 34. Bibliographical references:

Scientific/technical references only. If biogeographic regionalisation scheme applied (see 15 above), list full reference citation for the scheme.

# **Site-relevant references**

Anon. (1997) Anthropogenic radionucleides in the region of Jersey. Southampton Oceanography Centre, Geosciences Division, unpublished report to States of Jersey

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Critchley, AT, Farnham, WF & Morrell, SL (1983) A chronology of new European sites of attachment for the invasive brown alga, *Sargassum muticum*, 1973–1981. *Journal of the Marine Biological Association*, **63**, 799-811

Crutchley, S (1997) Designation of a Marine Protected Area in Jersey: Recommendations with special reference to molluscs. Unpublished MSc dissertation, University College London

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