

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:

Joint Nature Conservation Committee

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Designation date

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Site Reference Number

Name and address of the compiler of this form:

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

2. Date this sheet was completed/updated:

Designated: 02 February 2005

3. Country:

UK (Jersey)

4. Name of the Ramsar site:

Les Pierres de Lecq (the Paternosters), Jersey

5. Designation of new Ramsar site or update of existing site:

This RIS is for: Updated information on an existing Ramsar site

6. For RIS updates only, changes to the site since its designation or earlier update:

a) Site boundary and area:

** 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 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:

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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* ✓ -or- *no* ☐;
- 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* ✓ -or- *no* ☐;

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):

049 17 36 N 002 12 15 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 approximately 16 km due north of Gréve de Lecq on the north-west coast of 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):** 512

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.

At high water only four heads are uncovered. At low tide an extensive reef is uncovered. Great Rock, which is ten metres high and Sharp Rock, four metres high, are the largest rocks and are situated in the middle of the bank.

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.

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

Bottlenose dolphin appendix II; C.M.S. appendix II; EC Habitats Dir. Annex II, IV ; CWJ Protected	<i>Tursiops truncatus</i>	Bern
Common dolphin appendix II; C.M.S. appendix II; CWJ Protected	<i>Delphinus delphis</i>	Bern
White-beaked dolphin appendix II; C.M.S. appendix II; CWJ Protected	<i>Lagenorhynchus albirostris</i>	Bern
Risso's dolphin Bern appendix II; CWJ Protected	<i>Grampus griseus</i>	C.M.S appendix II;
Striped dolphin appendix II; CWJ Protected	<i>Stenella coeruleoalba</i>	Bern
Harbour porpoise appendix II; C.M.S. appendix II; EC Habitats Dir. Annex II; CWJ Protected	<i>Phocoena phocoena</i>	Bern
Pilot whale <i>Globicephala melas</i> CWJ Protected		C.M.S. appendix II; Bern appendix II;
Atlantic grey seal Dir. Annex II	<i>Halichoerus grypus</i>	EC Habitats
Basking shark vulnerable; Bern appendix II	<i>Cetorhinus maximus</i>	IUCN
Atlantic salmon Annex II	<i>Salmo salar</i>	EC Habitats Dir.
Common sturgeon C.M.S. Appendix II; Bern Appendix II	<i>Acipenser sturio</i>	IUCN Red List;
Twaite shad Habitats Dir. Annex II	<i>Alosa fallax</i>	IUCN Red List; EC
Short-snouted seahorse Red List; Bern Appendix II	<i>Hippocampus hippocampus</i>	IUCN

(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 those normally associated with colder northern waters such as the beadlet anemone *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 through reproductive isolation. Monitoring of these habitats for environmental change is therefore crucial (Taylor & Cook 1981).

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. 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.

7. The areas of shallow water and the large number of intertidal pools within the site provide habitat for many species of fish. 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 biodiversity. 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	Coastal, Igneous
Geomorphology and landscape	Intertidal rock, Islands, Open coast, Pools, Subtidal rock, Surge gullies
Nutrient status	
pH	
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. 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	80
D	Rocky shores	20

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 furoid algae on intertidal rocky platforms, rockpools and gullies with a variety of algae, crustaceans and fish, intertidal channels with sponge and ascidian 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 furoid 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 *Macra 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.

- Aesthetic
- Fisheries production
- 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:
- iii) 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:

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		+

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 taken / are planned / regulatory processes invoked, to mitigate the effect of these factors?

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.

Infrequent visits by small boats; the number of visitors to this reef is very low.

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 radionuclides in the region of Jersey*. Southampton Oceanography Centre, Geosciences Division, unpublished report to States of Jersey
- Bishop, AC & Bisson, G (eds.) (1989) *Jersey: description of 1:25,000 Channel Islands sheet 2*. HMSO, London, for British Geological Survey (Classical areas of British geology)
- 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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- Hiscock, K (ed.) (1996) *Marine Nature Conservation Review: rationale and methods*. Joint Nature Conservation Committee, Peterborough. (Coasts and Seas of the United Kingdom. MNCR series)
- Jewell, S (1995) *An identification and analysis of key criteria for the sustainable development of Jersey's coastal zone*. Unpublished MSc dissertation, Heriot-Watt University, Institute of Offshore Engineering, Edinburgh
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- Orbi, A & Salomon, J-C (1988) Dynamique de marée dans le Golfe Normand-Breton. *Oceanologica Acta*, **11**(1), 55-64
- Pienkowski, MW (ed.) (2005) *Review of existing and potential Ramsar sites in UK Overseas Territories and Crown Dependencies*. (Contractor: UK Overseas Territories Conservation Forum, Peterborough.) Final report on Contract CR0294 to the UK Department for Environment, Food and Rural Affairs, Bristol. www.ukotcf.org
- Rodwell, WJ (1996) *Les Écréhous Jersey*. La Société Jersiaise, St Helier
- Taylor, PD & Cook, PL (1981) *Hippoporidra edax* (Busk, 1859) and a revision of some fossil and living *Hippoporidra* (Bryozoa). *Bulletin of the British Museum (Natural History) (Geology)*, **35**, 243-251

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