

Ramsar Information Sheet

Published on 9 January 2017

United Kingdom Killough Bay



Designation date 23 March 2003
Site number 2278
Coordinates 54°15'17"N 05°37'55"W
Area 104,00 ha

https://rsis.ramsar.org/ris/2278 Created by RSIS V.1.7 on - 9 January 2017

Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

1 - Summary

Summary

Killough Bay encompasses the intertidal areas and adjoining areas of notable habitat, including mudflats, sand-dominated beaches, gravel and cobble units and rocky shore. The boundary of the Ramsar site includes Killough Harbour and Coney Island Bay. The principal interest is the wintering population of light-bellied brent goose Branta bernicla hrota, which feeds on the rich mats of the green alga Enteromorpha spp. present especially in Killough Harbour. The birds find refuge here during late winter and spring, once the main wintering flock from Strangford Lough disperses due to lack of food.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name | Joint Nature Conservation Committee Institution/agency | Joint Nature Conservation Committee Monkstone House City Road Postal address Peterborough Cambridgeshire PE1 1JY E-mail ris@jncc.gov.uk Phone +44 01733 562 626 Fax +44 01733 555 948

2.1.2 - Period of collection of data and information used to compile the RIS

To year 2003

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Killough Bay Spanish)

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded

Boundaries description (optional)

The site boundary follows that of the Special Protection Area (SPA) classified under the EU's Birds Directive.

2.2.2 - General location

a) In which large administrative region does County Down the site lie? b) What is the nearest town or population Downpatrick

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other Yes O No

Yes O No countries?

centre?

b) Is the site adjacent to another designated Ramsar Site on the Yes O No (9) territory of another Contracting Party?

2.2.4 - Area of the Site

Official area, in hectares (ha): 104

Area, in hectares (ha) as calculated from 133.05 GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

Biogeographic regions			
	Regionalisation scheme(s)	Biogeographic region	
	EU biogeographic regionalization	Atlantic	

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

<no data available>

<no data available>

<no data available>

- ☑ Criterion 4 : Support during critical life cycle stage or in adverse conditions
- ☑ Criterion 6 : >1% waterbird population

3.2 - Plant species whose presence relates to the international importance of the site

<no data available>

3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name		Species qualifies under criterion	criterion	Size Period of pop. Est.	% occurrence 1)	IUCN Red / List	CITES Appendix I	CMS Appendix I	Other Status	Justification
Birds											
CHORDATA / AVES	Branta bernicla hrota	Light-bellied brent goose		0000	354 1992-1997	1.8					feeding site, 5 year peak mean for 1992/93 – 1996-97, peak counts in winter, East Canada (br), Ireland (w), wintering site

¹⁾ Percentage of the total biogeographic population at the site

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3.4 - Ecological communities whose presence relates to the international importance of the site

<no data available>

4 - What is the Site like? (Ecological character description)

4.1 - Ecological character

Much of the Killough Bay shoreline supports a complex mosaic of annual driftline and cobble beach communities, interspersed with areas of saltmarsh, rock outcrop and low cliffs. Killough Harbour is a sheltered, mixed substrate, sediment shore with a notably rich invertebrate fauna and widespread distribution of the green alga Enteromorpha spp., that attracts internationally important numbers of wintering light-bellied brent goose Branta bernicla hrota to feed on it. Sheets of sand, supporting sand couch Elytrigia juncea, are occasionally present along the upper

At Coney Island Bay, the moderately exposed sediment shore is an important example of its type. The rest of the bay is generally sheltered and rocky with rockpools and boulders, forming a species-rich area with a diverse range of seaweeds, such as toothed wrack Fucus serratus and knotted wrack Ascophyllum nodosum, and invertebrates, including the notable polychaete worm Sabellaria alveolata at its northern limit. On the rocks, a sparse covering of sea campion Silene uniflora, thrift Armeria maritima and sea plantain Plantago maritima gives way to a more species-rich maritime grassland community, typified by sea campion S. uniflora, wild carrot Daucus carota ssp. carota, thrift A. maritima and red fescue Festuca rubra.

4.2 - What wetland type(s) are in the site?

Walling of Coastal Wellands				
Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
D: Rocky marine shores		2		
E: Sand, shingle or pebble shores		2		
G: Intertidal mud, sand or salt flats		1		

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Coastal mosaic	

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
Armeria maritima	Thrift	
Daucus carota carota	Wild carrot	
Festuca rubra	Red fescue	
Plantago maritima	Sea plantain	
Silene uniflora	Sea campion	

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
ANNELIDA/POLYCHAETA	Sabellaria alveolata	Polychaete worm				northern limit of distribution in Ireland

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Md-Latitude climate with mild winters	Cfb: Marine west coast (Mld with no dry season, warm summer)

Annual averages (Armagh, 1971–2000) (www.metoffice.com/climate/uk/averages/19712000/sites/armagh.html)
Max. daily temperature: 12.9° C
Min. daily temperature: 5.8° C
Days of air frost: 40.4
Rainfall: 795.4 mm
Hrs. of sunshine: 1191.6

4.4.0	O		
4.4.2 -	Geomor	DIIIC	settino

4.2 - Geomorphic setting
a) Mnimum elevation above sea level (in metres)
a) Maximum elevation above sea level (in metres)
Entire river basin
Upper part of river basin
Middle part of river basin ☐

RIS for Site no. 2278, Killough Bay, United Kingdo	m
Lower part of river basin	
More than one river basin	
Not in river basin	
Coastal	
	ase also name the larger river basin. For a coastal/marine site, please name the sea or ocean.
Irish Sea	ase also hall to the larger from bestit. For a coastalimitating site, prease hall to sea or occan.
4.4.0 C-il	
4.4.3 - Soil	5
Mineral	
Organic	
No available information	
Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)?	Yes O No ®
Please provide further information on the soil (optional)	
Dominated by mineral gleys and brown earths.	
4.4.4 - Water regime	
Water permanence	
Presence?	
Usually permanent water present	
4.4.5 - Sediment regime	
Significant erosion of sediments occurs on the site	П
Significant accretion or deposition of sediments occurs on the site	
Significant transportation of sediments occurs on or through the site	
Sediment regime is highly variable, either seasonally or inter-annually	
Sediment regime is highly variable, chief seasonally of more ambany	
Please provide further information on sediment (optional):	
	nt shore. Coney Island Bay is a moderately exposed sediment shore and an important
example of its type. intertidal sediments (including sandflat/mudflat)	
mendal sediments (motioning sandiavinidaliat)	
4.4.6 - Water pH	
Acid (pH<5.5)	
Circumneutral (pH: 5.5-7.4)	☑
Alkaline (pH>7.4)	
Unknown	
4.4.7 - Water salinity	
Fresh (<0.5 g/l)	
Mxohaline (brackish)/Mxosaline (0.5-30 g/l)	
Euhaline/Eusaline (30-40 g/l)	
Hyperhaline/Hypersaline (>40 g/l)	
нуреташе/нуреrsaline (>40 g/i) Unknown	
Unknown	
4.4.8 - Dissolved or suspended nutrients in water	
Eutrophic	
Mesotrophic	☑
Oligotrophic	
Dystrophic	
Unknown	
4.4.9 - Features of the surrounding area which may affect the	ne Site
Please describe whether, and if so how, the landscape and ecological	
characteristics in the area surrounding the Ramsar Site differ from the site itself:	i) broadly similar ♥ ii) significantly different ♥
Surrounding area has greater urbanisation or development	
Surrounding area has higher human population density	
Surrounding area has more intensive agricultural use	
Surrounding area has significantly different land cover or habitat types	П

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance	
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	Medium	
Wetland non-food products	Livestock fodder	Medium	

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Hazard reduction	Coastal shoreline and river bank stabilization and storm protection	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Medium
Recreation and tourism	Nature observation and nature-based tourism	Medium
Spiritual and inspirational	Aesthetic and sense of place values	Medium
Scientific and educational	Educational activities and opportunities	Medium
Scientific and educational	Long-term monitoring site	Medium

Other ecosystem service(s) not included above:

	· · ·		
N1 - 4	C T		
Inature conservat	tion, Transportation/navigation		
	,		

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site?

4.5.2 - Social and cultural values

i) the site provides 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) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
iv) 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

<no data available>

4.6 - Ecological processes

<no data available>

5 - How is the Site managed? (Conservation and management)

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

ı ub	lic owners	u III

Category	Within the Ramsar Site	In the surrounding area
National/Federal	→	→
government	(e)	(e)

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	>	✓

5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:	Northern Ireland Environment Agency Department of the Environment
Provide the name and title of the person or	
people with responsibility for the wetland:	lan Enlander
people with responsibility for the wettand.	
	Klondyke Building
	Cromac Avenue
	Gasworks Business Park
Postal address:	Lower Ormeau Road
	Belfast
	BT7 2JA
	Tel: 028 90569647

5.2 - Ecological character threats and responses (Management)

5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

<no data available>

5.2.2 - Legal conservation status

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Special Protection Area (SPA)		whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Area of Outstanding National Beauty (AONB)			whole
Site/ Area of Special Scientific Interest (SSSI/ASSI)			whole

5.2.3 - IUCN	l protected	areas	categories	(2008)
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la Strict Nature Reserve □
lb Wilderness Area: protected area managed mainly for wilderness protection
II National Park: protected area managed mainly for ecosystem protection and recreation
III Natural Monument: protected area managed mainly for conservation of specific natural features
IV Habitat/Species Management Area: protected area managed mainly

V Protected Landscape/Seascape: protecte landscape/seascape of	d area managed mainly for conservation and recreation
VI Managed Resource Protected Area: prote for the sustainable	cted area managed mainly use of natural ecosystems
<no available="" data=""></no>	
- O 4 1/4	

5.2.4 - Key conservation measures

<no data available>

5.2.5 - Management planning

Is there a site-specific management plan for the site? No

Has a management effectiveness assessment been undertaken for the site? Yes O No

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes O No

processes with another Contracting Party?

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

The management of Ramsar sites in the UK is determined by either a formal management plan or through other management planning processes, and is overseen by the relevant statutory conservation agency. Details of the precise management practices are given in these documents.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Please select a value

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented

EHS staff monitor the site on a regular basis and conduct bird counts through the winter and spring seasons.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

ASSI Survey report – Habitat Survey Team, Environment and Heritage Service

Barne, JH, Robson, CF, Kaznowska, SS, Doody, JP, Davidson, NC & Buck, AL (eds.) (1997) Coasts and seas of the United Kingdom. Region 17. Northern Ireland. Joint Nature Conservation Committee, Peterborough. (Coastal Directories Series.)

Buck, AL & Donaghy, A (eds.) (1996) An inventory of UK estuaries. Volume 7. Northern Ireland. Joint Nature Conservation Committee, Peterborough

Cooper, EA, Crawford, I, Malloch, AJC & Rodwell, JS (1992) Coastal vegetation survey of Northern Ireland. (Contractor: University of Lancaster, Unit of Vegetation Science). Unpublished report to Department of the Environment (NI), Belfast

Crowe, O (2005) Ireland's wetlands and their waterbirds: status and distribution. BirdWatch Ireland, Newcastle, Co. Wicklow

Curtis, TGF & McGough, HN (1988) The Irish Red Data Book. 1 Vascular plants. Stationery Office, Dublin

Musgrove, AJ, Pollitt, MS, Hall, C, Hearn, RD, Holloway, SJ, Marshall, PE, Robinson, JA & Cranswick, PA (2001) The Wetland Bird Survey 1999–2000: wildfowl and wader counts. British Trust for Ornithology, Wildfowl and Wetlands Trust, Royal Society for the Protection of Birds & Joint Nature Conservation Committee, Slimbridge. www.wwt.org.uk/publications/default.asp?PublD=14

Stroud, DA, Chambers, D, Cook, S, Buxton, N, Fraser, B, Clement, P, Lewis, P, McLean, I, Baker, H & Whitehead, S (eds.) (2001) The UK SPA network: its scope and content. Joint Nature Conservation Committee, Peterborough (3 vols.) www.jncc.gov.uk/UKSPA/default.htm Way, LS, Grice, P, MacKay, A, Galbraith, CA, Stroud, DA & Pienkowski, MW (1993) Ireland's Internationally Important Bird Sites: a review of sites for the EC Special Protection Area network. Joint Nature Conservation Committee, Peterborough for to Department of the Environment (NI), Belfast, and Irish Wildlife Service, Dublin

Weighell, AJ, Donnelly, AP & Calder, K (eds.) (2000) Directory of the Celtic coasts and seas. Joint Nature Conservation Committee,

Wilkinson, M, Fuller, IWA, Telfer, TC, Moore, CG & Kingston, PF (1988) Northern Ireland Littoral Survey: A conservation-orientated survey of the intertidal seashore of Northern Ireland. Institute of Offshore Engineering, Heriot-Watt University, Edinburgh

6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

ii. a detailed Ecological Character Description (ECD) (in a national format)

iii, a description of the site in a national or regional wetland inventory

iv. relevant Article 3.2 reports

v. site management plan

<no file available

vi. other published literature

<no data available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Please provide a caption (Please specify the copyright holder, 20-12-2016)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2003-03-23