

Annex I

Annex I to the Biosphere Reserve Nomination Form, January 2013

MABnet Directory of Biosphere Reserves

Biosphere Reserve Description⁸**Administrative details****Country:** United Kingdom, Isle of Man**Name of BR:** Biosphere Isle of Man**Year designated:** (*to be completed by MAB Secretariat*)**Administrative authorities:** (17.1.3) Department of Environment Food and Agriculture, Isle of Man Government**Name Contact:** (20.1) Peter Longworth**Contact address:** (+441624685149 Department of Environment Food and Agriculture, Isle of Man Government, Thie Slieau Whallian, Foxdale Road, St Johns, IM4 3ASpeter.longworth@gov.im, info@biosphere.im

(20.1)

Related links There are two – one as an Isle of Man Government webpage, which also directs interested parties to the external website.<http://www.gov.im/about-the-government/departments/environment,-food-and-agriculture/biosphere-vannin/>www.biosphere.im**Social networks** (16.4.3) <https://www.facebook.com/biosphereisleofman>
<https://twitter.com/biospherelOM>**Description****General description:** (*Site characteristics in 11.1; human population in 10*)

The Isle of Man is situated in the centre of the Irish Sea. Its land mass is 572 sq km with a population of 85,000 (census 2011). The area includes spectacularly beautiful and varied coastline of cliffs, stacks, islets and long beaches (at the Ayres National Nature Reserve), and fine views of the central hills to a high point of 621 m at Snaefell. The hills hold important peat reserves and are deeply cut by wooded glens in the east. The coastal plain in the north holds pockets of unimproved grassland, pools and wetlands including the internationally important Ballaugh Curragh Ramsar site.

Biosphere Isle of Man extends out into the Irish Sea to cover all of the Isle of Man's territorial waters.

The sea bed has areas of great richness, horse mussel and Sabellaria reefs and maerl and seagrass beds, many of which are protected in the Ramsey Bay Marine Nature Reserve.

The core is made up of the legally protected areas of national significance both on land and in the sea. These are mainly Areas of Special Scientific Interest. Additional designations include National

⁸ To be posted on the MABnet once the nomination has been approved. The numbers refer to the relevant sections of the nomination form.

Nature Reserve, Marine Nature Reserve, Area of Special Protection for Birds and Fisheries Protection Areas.

The whole area is under the administration of the Isle of Man Government

The use and enjoyment of UNESCO Biosphere Isle of Man is diverse. The countryside is farmed, with sheep, beef and dairy cows, as well as arable areas. The sea is harvested for shellfish. Tourism focuses on the distinctive island culture and landscape.

The area has a rich natural beauty and cultural heritage, a strong farming and maritime tradition and a distinctive sense of identity amongst its diverse population. The Manx language is enjoying a renaissance. The economy has now become remarkably diverse.
(295 words)

Major ecosystem type: (14.1)

Shallow marine ecosystems, upland heath and moor, semi-natural grasslands, conifer plantations, deciduous woodland, wetland, built up areas.

Major ecosystems & land cover types: (11.6)

Major ecosystems and land covers types comprise: Shallow marine ecosystem , Upland heath and moorland, Semi-natural lowland grassland, Lowland heathland and mire, Wooded glen, Wetland, Built-up areas (urban greenspace).

Bioclimatic zone (11.5)

Moist sub-humid 'Temperate Coastal/ Marine Zone' with notably mild wet winters and cool wet summers, due to the oceanic influence.

Location (latitude & longitude): (6.1)

Cardinal points:	Latitude	Longitude
Most central point:	54° 13' N	4° 35' W

Total Area (ha): (7) 457,000

Core area(s): (7) 15,398

Buffer zone(s): (7) 114,670

Transition area(s) : (7) 326,932

Different existing zonation: (7.4) N/A

Altitudinal range (metres above sea level): (11.2) 0-621m

Zonation map(s): (6.2)

Main objectives of the biosphere reserve

Brief description (13.1)

"UNESCO Biosphere Isle of Man" will visibly demonstrate sustainable economic development through showing how a vibrant community, healthy ecosystems and a thriving, modern, diverse economy can co-exist and complement each other. The overall aim is to see the Isle of Man become an even better place for people and nature: the more our community gets involved, the more we can help the Island to stay special.

Three technical aims:

- 1) Conservation; taking care of our amazing landscapes, wildlife, culture, heritage and communities,
- 2) Development; improving our infrastructure and economy in ways that respect and support our unique environment,
- 3) Knowledge, learning and awareness; Helping more people to understand what makes the Island so special and encouraging active involvement in keeping it that way.

Research

Brief description (16.1.1)

A wide variety of research is taking place on the physical ('abiotic'), living ('biodiversity') and socio-economic environments which is relevant to the management of the biosphere reserve through the local higher education bodies and off-island research institutions. The Biosphere Steering Group plans to identify specific research questions and the needs to effectively understand and carry out key management activities in the area, to be supported through applied student research projects, alongside invaluable "Citizen Science" research programmes.

Monitoring

Brief description (16.1.1)

Various environmental, socio-cultural and economic monitoring programmes are carried out by a range of local public and voluntary organisations, contributing to knowledge of the present (baseline) situation set out in the nomination form and plans for forthcoming management strategy. The research plan will seek to strengthen the attributes of which Isle of Man residents are most proud, covering a range of factors that sustain a vibrant community, healthy environment and thriving economy.

Annex I Specific variables being researched or monitored (fill in the table below and tick the relevant parameters)

Abiotic		Biodiversity	
Abiotic factors		Afforestation/Reforestation	
Acidic (marine pH)	✓	Algae	✓
Phdeposition/ Atmospheric factors			
Air quality		Alien and/or invasive species	✓
Air temperature	✓	Amphibians	
Climate, climatology	✓	Arid and semi-arid systems	
Carbon stores	✓	Autoecology	
Contaminants	✓	Beach/soft bottom systems	✓
Drought		Benthos	✓
Erosion	✓	Biodiversity aspects	✓
Geology		Biogeography	✓
Geomorphology		Biology	
Geophysics		Biotechnology	
Glaciology		Birds	✓
Global change	✓	Boreal forest systems	
Groundwater		Breeding	✓
Ecosystem issues	✓	Coastal/marine systems	✓
Heavy metals	✓	Community studies	
Hydrology	✓	Conservation	✓
Indicators	✓	Coral reefs	
Meteorology	✓	Degraded areas	
Modelling		Desertification	
Monitoring/ methods		Dune systems	
Nutrients	✓	Ecology	
Physical oceanography	✓	Ecosystem assessment	✓
Pollution, pollutants	✓	Ecosystem functioning/structure	✓
Siltation/ sedimentation	✓	Ecosystem services	✓
Soil		Ecotones	
Speleology		Endemic species	
Topography		Ethology	
Toxicology		Evapotranspiration	
UV radiation		Evolutionary studies/ Palaeoecology	
Soil temperature	✓	Fauna	✓
Tide heights	✓	Fires/fire ecology	
		Fishes	✓
		Flora	✓
		Forest systems	
		Freshwater systems	✓
		Fungi	✓
		Genetic resources	
		Genetically modified organisms	

	Home gardens	
	Indicators	✓
	Invasive species	✓
	Invertebrates	✓
	Island systems/studies	
	Lagoon systems	
	Lichens	
	Mammals	✓
	Mangrove systems	
	Mediterranean type systems	
	Microorganisms	✓
	Migrating populations	
	Modelling	✓
	Monitoring/methods	
	Mountain and highland systems	
	Natural and other resources	
	Natural medicinal products	
	Perturbations and resilience	
	Pests/Diseases	✓
	Phenology	✓
	Phytosociology/ Succession	
	Plankton	✓
	Plants	✓
	Polar systems	
	Pollination	
	Population genetics/dynamics	
	Productivity	
	Rare/Endangered species	✓
	Reptiles	✓
	Restoration/ Rehabilitation	✓
	Species (re) introduction	✓
	Species inventorying	✓
	Sub-tropical and temperate rainforest systems	
	Taxonomy (Marine)	✓
	Temperate forest systems	
	Temperate grassland systems	
	Tropical dry forest systems	
	Tropical grassland and savannah systems	
	Tropical humid forest systems	
	Tundra systems	
	Vegetation studies	✓
	Volcanic/Geothermal systems	
	Wetland systems	
	Wildlife	✓

Socio-economic		Integrated monitoring	
Agriculture/Other production systems	✓	Biogeochemical studies	✓
Agroforestry		Carrying capacity	
Anthropological studies		Climate change	✓
Aquaculture		Conflict analysis/resolution	
Archaeology	✓	Ecosystem approach	✓
Bioprospecting		Education and public awareness	
Capacity building	✓	Environmental changes	✓
Cottage (home-based) industry		Geographic Information System (GIS)	✓
Cultural aspects	✓	Impact and risk studies	
Demography	✓	Indicators	✓
Economic studies	✓	Indicators of environmental quality	✓
Economically important species	✓	Infrastructure development	
Energy production systems	✓	Institutional and legal aspects	
Ethnology/traditional practices/knowledge		Integrated studies	
Firewood cutting	✓	Interdisciplinary studies	
Fishery	✓	Land tenure	
Forestry	✓	Land use/Land cover	✓
Human health	✓	Landscape inventorying/monitoring	✓
Human migration		Management issues	✓
Hunting	✓	Mapping	✓
Indicators		Modelling	
Indicators of sustainability	?	Monitoring/methods	
Indigenous people's issues		Planning and zoning measures	✓
Industry		Policy issues	✓
Livelihood measures	✓	Remote sensing	✓
Livestock and related impacts		Rural systems	
Local participation	✓	Sustainable development/use	?
Micro-credits		Transboundary issues/measures	?
Mining		Urban systems	
Modelling		Watershed studies/monitoring	
Monitoring/ methods			
Natural hazards	✓		
Non-timber forest products			
Pastoralism			
People-Nature relations			
Poverty			
Quality economies/marketing			
Recreation	?		
Resource use	?		

Role of women			
Sacred sites			
Small business initiatives	√		
Social/ Socio-economic aspects			
Stakeholders' interests	√		
Tourism	√		
Transports	√		

Annex II**Annex II to the Biosphere Reserve Nomination Form, January 2013****Promotion and Communication Materials****For the Proposed Biosphere Reserve**

Provide some promotional material regarding the proposed site, notably high quality photos, and/or short videos on the site so as to allow the Secretariat to prepare appropriate files for press events. To this end, a selection of photographs in high resolution (300 dpi), with photo credits and captions and video footage (rushes), without any comments or sub-titles, of professional quality – DV CAM or BETA only, will be needed.

In addition, return a signed copy of the following Agreement on Non-Exclusive Rights. A maximum of ten (10) minutes on each biosphere reserve will then be assembled in the audio-visual section of UNESCO and the final product, called a B-roll, will be sent to the press.



United Nations
Educational, Scientific and
Cultural Organization

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pour l'éducation,
la science et la culture

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para la Educación,
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منظمة الأمم المتحدة
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UNESCO Photo Library
Bureau of Public Information

Photothèque de l'UNESCO
Bureau de l'Information du Public

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Reference:

1. a) I the undersigned, copyright-holder of the above mentioned photo(s) hereby grant to UNESCO free of charge the non-exclusive right to exploit, publish, reproduce, diffuse, communicate to the public in any form and on any support, including digital, all or part of the photograph(s) and to licence these rights to third parties on the basis of the rights herein vested in UNESCO
- b) These rights are granted to UNESCO for the legal term of copyright throughout the world.
- c) The name of the photographer will be cited alongside UNESCO's whenever his/her work is used in any form.
2. I certify that:
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 - b) The photo(s) is/are in no way whatever a violation or an infringement of any existing copyright or licence, and contain(s) nothing obscene, libellous or defamatory.

Name and Address: Peter Longworth, DEFA, Thie Sleiu Whallian, Foxdale Road, St John's, Isle of Man. IM4 3AS

Date :

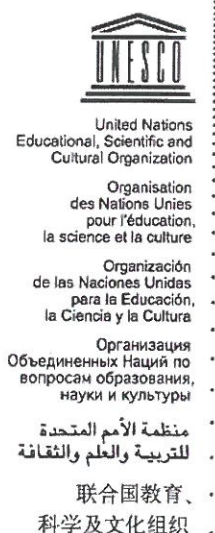
Signature :

20/8/15

(sign, return to UNESCO two copies of the Agreement and retain the original for yourself)

Mailing address: 7 Place Fontenoy, 75352 Paris 07 SP, Direct Telephone: 00331 – 45681687

Direct Fax: 00331 – 45685655; e-mail: photobank@unesco.org; m.ravassard@unesco.org



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