
Isle of Man: Appendices.
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More information available at: www.gov.im/defa/

This section includes a series of appendices that provide additional information relating to that provided in the Isle of Man chapter of the publication: UK Overseas Territories and Crown Dependencies: 2011 Biodiversity snapshot.

All information relating to the Isle or Man is available at http://jncc.defra.gov.uk/page-5819

The entire publication is available for download at http://jncc.defra.gov.uk/page-5821
## Appendix 1: Multilateral Environmental Agreements

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<tr>
<th>Agreement</th>
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<td>Basel</td>
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<td>CBD</td>
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<td>CBD 2000 protocol on biosafety</td>
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<td>CITES</td>
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<td>CMS</td>
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<td>CMS ACCOBAMS</td>
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<td>CMS ASCOBANS</td>
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<td>CMS Eurobats</td>
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<td>CMS AEWAl</td>
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<td>London Convention</td>
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<td>OSPAR</td>
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<td>Ramsar</td>
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<td>UNFCCC/ Kyoto protocol</td>
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<td>ICRW (a)</td>
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<td>ICRW (b)</td>
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<td>ECPAIT</td>
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<td>MARPOL 73/78 Convention</td>
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<td>CLTAP</td>
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<td>UNESCO World Heritage Convention</td>
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**Key**

- MEA extended and legislation and other implementation measures fully meet the MEA requirements
- MEA extended but only some elements of legislation or other implementation measures meet MEA requirements
- MEA not extended to the Territory
- * being progressed.
In relation to CLTAP it would appear that some Protocols have been extended to the island and the others have not:

The level of CBD implementation is being assessed, with a view to requesting extension later in the year (*update as necessary*).
Detailed assessment only available for CBD (2004) – that was revised (2010).
Appendix 2: National Wildlife Legislation

The earliest wildlife legislation was the 1867 Sea Gull Preservation Act, which conserved seagulls from those wishing to exploit their feathers, in appreciation for their role in cleaning up the sea from fisheries waste.

The Wild Birds Protection Act 1932,
Protection of Birds Act 1955,
Manx Museum and National Trust Act 1959
Destructive Imported Animals Act 1963
Wild Animals (Restriction on Importation) Act 1980
Endangered Species (Import and Export) Act 1981
Wildlife Act 1990,
Endangered Species Act 2010

Of these the most important is the Wildlife Act 1990. This Act protects birds, other animals and plants, controls introductions to the wild, enables marine and terrestrial site protection, controls the keeping of certain birds.
Appendix 3: Protected Areas
Under the Wildlife Act Government may designate;
- Areas of Special Scientific Interest (ASSI)
- National Nature Reserves
- Marine Nature Reserves
- Areas of special Protection for Birds, Plants or Animals

A List of protected areas with legal status is outlined below.
Map of protected areas outlined below.
The island is aiming to have at least 10% of the land area protected by ASSI designation.

Among the most important areas are the Ayres, Ballaugh Curragh and the Calf.

- The **Ayres National Nature Reserve** is wardeden and managed for its conservation interest, especially breeding birds; little tern (*Sternula albifrons*), curlew (*Numenius arquata*), oystercatcher (*Haematopus ostralegus*) and ringed plover (*Charadrius hiaticula*). There are also rare invertebrates on the reserve; lesser beefly (*Bombylius minor*), scarce crimson and gold moth (*Pyrausta sanguinalis*) and grayling butterfly (*Hipparchia semele*).

- In 2006 the **Ballaugh Curragh** was designated as a Ramsar site. It is an area of nearly 200 hectares of lowland deep peat with willow scrub, wet heath, pools and streams. It has legal protection through being an ASSI. Much of it is also Manx National Heritage and Manx Wildlife Trust land.

- The **Calf** is owned and managed by Manx National Heritage and is important for nesting seabirds; Manx Shearwater (*Puffinus puffinus*), Storm Petrel (*Hydrobates pelagicus*), Puffin (*Fratercula arctica*), as well as Chough (*Pyrrhocorax pyrrhocorax*), Hen Harrier (*Circus cyaneus*) and migrant birds. There is a Bird Observatory on the Calf which is manned for 6 months each year.

The Government plans to designate a **Marine Nature Reserve in 2011** and envisages a network of marine protected areas as well as fisheries management measures which will conserve the seabed and its biodiversity including fish and shellfish stocks.

Other land protected through ownership includes Manx Wildlife trust reserves the glens owned by DEFA and land owned by Manx National Heritage (also shown on map below).
## Terrestrial protected areas with legal status

<table>
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<tr>
<th>ASSI</th>
<th>Ramsar site</th>
<th>ASP</th>
<th>NNR</th>
<th>MNH Act</th>
<th>DAFF ownership</th>
<th>Bird Sanctuary</th>
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<td>2. Langness, Derbyhaven and Sandwich</td>
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<td>3. Jurby Airfield</td>
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<td>5. Ballacrye Meadow</td>
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<td>6. Rosehill Quarry, Billown</td>
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<td>7. Ramsey Mooragh Shore</td>
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<td>9. Dhoon Glen</td>
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<td>10. Eary Vane</td>
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<td>11. Glen Rushen</td>
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<td>12. Poyll Vaaish</td>
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<td>13. Glen Maye</td>
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<td>14. Greeba Mountain and the Central Hills</td>
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<td>15. Dalby Coast</td>
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<td>16. Ballachurry meadows</td>
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<td>17. Ramsey estuary</td>
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<td>18. Ayres gravel pit (Bride)</td>
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<td>19. Langness and Ronaldsway</td>
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<td>20. Calf of Man</td>
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<td>21. West Baldwin</td>
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<td>26. Marine Drive</td>
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<td>27. Spanish Head</td>
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<td>28. Eairy Cushlin</td>
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<td>29. Killabrega</td>
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<td>30. Blue Point</td>
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<td>5367 ac</td>
<td>478 ac</td>
<td>10ac</td>
<td>673 ac</td>
<td>&gt;3000 ac</td>
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</table>

Total Areas: 2175 ha

Total Acres: 5367 ac
Appendix 4: Institutional Arrangements

The Isle of Man, a self governing Crown Dependency with its own laws and it’s own parliament (Tynwald), founded over 1,000 years ago, is considered to be the oldest continuous parliament in the world. The Island is not part of the United Kingdom and has no representation in the British Parliament. The British Crown is ultimately responsible for the Island’s external relations. The Isle of Man is not part of the European Union, but it has a limited relationship with the Union under Protocol 3 to the United Kingdom’s Act of Accession in 1972. This allows for the free trade of agricultural and manufactured products across the EU (except for items transported or traded under the Convention on International Trade in Endangered Species, known as CITES). The Isle of Man is part of the European Common Customs Area so does not have a customs border post.

Government:
The Department of Environment, Food and Agriculture is responsible for statutory nature conservation, forest and upland management, fisheries protection, energy and climate change, environmental protection, air and water quality and pest control. It designates Areas of Special Scientific Interest, Marine Nature Reserves and National Nature Reserves. It leads the marine spatial planning group (of government departments) and biological recording partnership (with Manx National Heritage, the Manx Wildlife Trust and other partners). It is guided by the statutory Wildlife Committee (a scientific advisory committee). The Island has its own fisheries management zone out to 3 nautical miles (NM) and a shared fisheries management zone from 3 - 12 NM. There are 5 full time permanent posts in nature conservation delivery. The Department owns and manages 7,700 ha of land, mainly in the hills but including the Ayres National Nature Reserve.

Manx National Heritage (operating under the authority of the Manx Museum and National trust Acts 1959-1986) exists independently by statute on behalf of the Manx Community to preserve, protect and communicate the unique qualities of the Manx natural and cultural heritage. There is one full time permanent post dealing with natural heritage. MNH also contracts seasonal staff running the Bird Observatory on the Calf of Man. It owns and manages around 1200 hectares of protected landscape.

Non-Governmental Organisations:
The Manx Wildlife Trust (founded in 1973) is the principal voluntary nature conservation body on the Isle of Man with concern for land, sea and fresh water environments. The Manx Wildlife Trust is part of the network of 47 Wildlife Trusts dedicated to the achievement of a Britain richer in wildlife and managed on sustainable principles. Sharing this goal and making a vital contribution are the junior branch, Wildlife Watch, and the local Wildlife Groups. The Trust’s aims are:

- To acquire and manage nature reserves, safe sites for wildlife, conserving some of the best habitats on the Isle of Man (20 reserves in 2010)
- To promote the knowledge and enjoyment of the Island’s natural environment
- To take action when wildlife sites or species are threatened
- To carry out and promote scientific research
- To offer ecological expertise and advice

The Trust has 10 staff, which are 4 core staff, 3 contract staff employed on behalf of government, and 3 staff working on largely government funded projects. Their operational areas are
- Operation and maintenance of nature reserves
- Support and operation of community wildlife areas (3 at present)
- Biological recording
- Advisory services
- Ecological consultancy services
- Promotion and campaigning in promotion of wildlife and conservation issues
- Education to adults and children on wildlife and conservation issues
- Collaborative Projects with Govt and other bodies; Wildflowers of Man Project, Education Project, Marine Officer Post, Wildlife Sites Project, Roadside Verge Project, Manx Basking Shark Watch.
- Contract Reserve Wardening

**Manx Birdlife** was started in 1998 as the Manx Bird Atlas. Its stated purpose is to work to conserve the Isle of Man’s wild birds and their habitats through advocacy and by raising public awareness of conservation issues. They base their work on sound scientific research and actively seek partnerships to better achieve their conservation goals.

Its specific aims are
- Conservation action: Identify species and habitats in most need of conservation action and advocate for change in order to secure action to benefit them.
- Public awareness: Raise awareness of issues affecting biodiversity and the natural environment of the Isle of Man and influence decisions where necessary.
- Business Development: over the next five years, improve the financial stability of the charity by seeking funding from a variety of sources and increasing public support for its work through a range of activities.
- A current project is the Point of Ayre gravel pit restoration. The charity aims to use bequest monies as a basis for raising further capital to undertake a restoration of the gravel pits, including provision for controlled public access via hides and boardwalks.

In addition there are many other smaller conservation NGOs.
- Manx Bat Group
- Manx Whale and Dolphin Watch
- Manx Butterfly Conservation
- The Manx Antiquarian and Natural History Society
- Manx Ornithological Society
- Manx Woodland Trust
- Isle of Man Farming and Wildlife Advisory Group
- Manx Native Oak Group
- Manx Friends of the Earth
- Manx Game Preservation Society

**Manx Conservation Forum**

The conservation and countryside charities are represented on the Manx Conservation Forum, together with agricultural and fisheries producer groups. This was established by DEFA in 2009. The Forum’s aims, as outlined in the terms of reference, are quoted below.

a. **Dialogue**
   - An opportunity for NGOs to hear about and comment on DEFA’s policies and priorities.
   - A focus for DEFA’s consultation with wildlife and countryside NGOs.
   - An opportunity for DEFA to hear and comment on conservation and countryside groups’ wildlife conservation priorities.
   - An opportunity for groups to discuss common areas of interest.

b. **Partnership of Government and Non-Government Organisations**
   - Extending joint working to better progress biodiversity conservation on the Island, especially Convention on Biological Diversity work.
   - Initiating further joint projects.

c. **Promotion of biodiversity conservation**
   - More effective promotion and publicity of conservation issues.

d. **Dissemination of scientific information**
   - Encouraging the sharing of scientific information and facilitating regular science updates.
   - To assess what stage the Island is at with regard to wildlife conservation then to set targets and regularly report to the public on the progress made to meet those targets.
Appendix 5: Research priorities

The Island has its own research priorities as well as sharing regional priorities. These tend to focus on species of regional significance. In the marine field recent attention has focussed on basking sharks (*Cetorhinus maximus*), understanding their movements (by tagging) attempting to estimate their population size (using DNA analysis and fin ID) and recording their breeding behaviour. In 2006-07 Grey Seal census work was undertaken and regular monitoring is necessary.

The Island has a recently established (breeding since 1977) but important population of hen harrier (*Circus cyaneus*). Breeding numbers have been as high as 60 pairs (in 2004). The 2010 Census indicates a drop of approximately 50% since that of 2004 and research is required to understand their population changes and needs.

Following the publication of the 2007 Manx Bird Atlas, we are half way through the repeat breeding bird survey, (2006-15) which will create a sustainability index. This will enable breeding trends to be identified. Last winter work started on the repeat of the winter atlas. These will give Government unprecedented information about ecological change in the wider countryside.

Already work is going on to produce a red/amber bird list, which in turn will lead to identification of species specific or wider countryside research priorities.

Chough (*Pyrrhocorax pyrrhocorax*), have also received recent research attention. A study in the last decade focussed on the special qualities of Manx farmland which make it so good for feeding chough.

DNA analysis was been done to identify which of the Manx oaks are likely to be of native provenance (Native Oak Research group). There is scope to do similar work on other tree species, to assist native tree planting projects.

There is regular butterfly survey and moth trapping. Recent butterfly and moth arrivals have highlighted the importance of the Island as a stepping stone for range changes in moth and butterfly populations. There is further scope for monitoring and analysis of moth and butterfly records in their regional context.
Appendix 6: Ecosystem/habitats

The island is notable for the variety of habitats in a small area.

In the 1990s the terrestrial habitats and land use were mapped (using Phase 1 field survey techniques). Detail survey (phase 2) was done for areas of high ecological importance, in preparation for ASSI designation. See habitat map....

Most of the island is Manx slates with small areas of granite and an area of limestone around Castletown in the south. The hills and some small lowland areas have peat of varying depths. The northern plain is made up of glacial outwash gravels and sands.

Specific surveys and studies have been undertaken for the following terrestrial habitats;

- River corridor (Manx Wildlife Trust/Department of Transport, 1997-2000)
- Road verges (MWT/DOT, 1996)
- Ponds and dubs (DAFF - 2002)
- Coastal habitats (MWT - 1999)
- Hill land survey (MWT 1997)
- Sulby river PhD (2005)
- Saltmarsh PhD (2006)

A review of potential Ramsar sites by UKOTCF in 2005 identified 6 sites one of which is now designated. [http://jncc.defra.gov.uk/PDF/ramsar_ukOT_Crowndep_reportfinal_0205.pdf](http://jncc.defra.gov.uk/PDF/ramsar_ukOT_Crowndep_reportfinal_0205.pdf)

A Wetland Inventory was compiled in 2008.

Specific surveys have been undertaken for the following marine habitats;

- Sublittoral
- Horse mussel reefs (DAFF - 2007-2009)

**Marine mapping** was undertaken through sampling regular points on the seabed in 2008 by University of Wales (Bangor).

The habitats of regional significance include;

- Lichen heath at the Ayres
- Upland moorland (wet and dry)
- Seabird nesting cliffs (International Bird Area)
- Horse mussel reefs
- Vegetated fixed dunes (EU priority habitat)
- Temporate Atlantic wet heaths (EU priority habitat)
- Bog woodland (EU priority habitat)
Among the most threatened habitats are

- Species – rich grasslands with various orchids (agricultural improvement and airport grassland management)
- Wet grasslands with breeding waders (agricultural improvement, abandonment and scrubbing over)
- Saltmarsh, estuarine mud and river mouths (marina/water retention developments as well as climate change)
- Mountain top vegetation (climate change)

<table>
<thead>
<tr>
<th>Habitat</th>
<th>regionally</th>
<th>EU Annex I priority habitat</th>
<th>OSPAR</th>
<th>UK BAP priority</th>
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<td>temporate Atlantic wet heaths</td>
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**Marine Habitats**

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Appendix 7: Species

As with all islands the species diversity is less than on the adjacent land masses. However the marine diversity is significant. Allen (1984) noted that “in every plant and animal order (except the wholly freshwater ones) that has so far been adequately worked, with striking consistency Man proves to have two-thirds of the Irish total and two-fifths of the British”.

It is also a feature of the Island that some species are only found at single sites and are therefore highly vulnerable. For this reason whose with three or fewer sites are listed in schedule 7 (of the Wildlife Act 1990). These include such species as agrimony (Agrimonia eupatoria), bee orchid (Ophrys apifera) and spring sandwort (Minuartia verna).

The following tables list the native plants, invertebrates, fish, reptiles, amphibians, mammals and birds. Those listed in conventions, Red data book and protected species lists are indicated as well as if native. No species are considered endemic to the Isle of Man however there may be sub-species or Manx variants.
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<th>Group</th>
<th>Scientific Name</th>
<th>Common name</th>
<th>Local Name</th>
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**summer species (32)**
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### Table 4: Marine Invertebrates

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### Table 5: Marine plants

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### Table 6: Lower plants

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## Table 7: Terrestrial Plants

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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polypodium vulgare</td>
<td>Polypody</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polypodium vulgare</td>
<td>Southern Polypody</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polypodium vulgare agg.</td>
<td>Polypody</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polystichum aculeatum</td>
<td>Hard Shield-Fern</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polystichum lonchitis</td>
<td>Holly-fern</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polystichum setiferum</td>
<td>Soft Shield-Fern</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pteridium aquilinum</td>
<td>Bracken</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix 8: Threats
Invasive species.

Table 8 List species considered to be non native and invasive although some may not yet have shown indications of being invasive on the Isle of Man. Coarse fish are moving between ponds with the help of man, while some species, Japanese knotweed and Sargassum muticum, are spreading of their own accord.

Table 8: Invasive species summary

<table>
<thead>
<tr>
<th>Plants</th>
<th>Invertebrates</th>
<th>Reptiles</th>
<th>Fish</th>
<th>Birds</th>
<th>Mammals</th>
<th>Amphibian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isle of Man</td>
<td>35 (+3 marine)</td>
<td>5</td>
<td>0</td>
<td>5</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

Table 9: Invasive plants

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acer pseudoplatanus</td>
<td>sycamore</td>
</tr>
<tr>
<td>Azolla filiculoides</td>
<td>water fern</td>
</tr>
<tr>
<td>Impatiens glandulifera</td>
<td>Himalayan balsam</td>
</tr>
<tr>
<td>Buddleja davidii</td>
<td>buddleia</td>
</tr>
<tr>
<td>Crassula helmsii</td>
<td>New Zealand pigmyweed</td>
</tr>
<tr>
<td>Rhododendron ponticum</td>
<td>rhododendron</td>
</tr>
<tr>
<td>Myriophyllum aquaticum</td>
<td>parrot’s feather milfoil</td>
</tr>
<tr>
<td>Elodea canadensis</td>
<td>Canadian pondweed</td>
</tr>
<tr>
<td>Crocosmia x crocosmiiflora</td>
<td>montbretia</td>
</tr>
<tr>
<td>Fallopia japonica</td>
<td>Japanese knotweed</td>
</tr>
<tr>
<td>Petasites fragrans</td>
<td>Winter heliotrope</td>
</tr>
<tr>
<td>Cotoneaster spp. including Cotoneaster</td>
<td>Cotoneaster</td>
</tr>
<tr>
<td>Smyrnium olusatrum</td>
<td>Alexanders</td>
</tr>
<tr>
<td>Prunus laurocerasus</td>
<td>Cherry laurel</td>
</tr>
<tr>
<td>Aegopodium podagraria</td>
<td>Ground elder</td>
</tr>
<tr>
<td>Impatiens glandulifera</td>
<td>Himalayan balsam</td>
</tr>
<tr>
<td>Carpobrotus edulis</td>
<td>Hottentot fig</td>
</tr>
<tr>
<td>Rosa rugosa</td>
<td>Japanese rose</td>
</tr>
<tr>
<td>Lemma minuta</td>
<td>Least duckweed</td>
</tr>
<tr>
<td>Soleiroila soleroli</td>
<td>Mind-your-own-business</td>
</tr>
<tr>
<td>Epilobium brunnescens</td>
<td>New-zealand willowherb</td>
</tr>
<tr>
<td>Acaena novae-zelandia</td>
<td>Piri-piri burr</td>
</tr>
<tr>
<td>Acaena ovalifolia</td>
<td>Piri-piri burr</td>
</tr>
<tr>
<td>Rubus spectabilis</td>
<td>Salmonberry</td>
</tr>
<tr>
<td>Prunus cerasus</td>
<td>Sour cherry</td>
</tr>
<tr>
<td>Scientific name</td>
<td>Common name(s)</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Hyacinthoides hispanica</td>
<td>Spanish bluebell</td>
</tr>
<tr>
<td>Hyacinthoides x massartiana</td>
<td>Spanish bluebell hybrids</td>
</tr>
<tr>
<td>Allium triquetrum</td>
<td>Three-cornered leek</td>
</tr>
<tr>
<td>Alnus incana</td>
<td>Grey alder</td>
</tr>
<tr>
<td>Picea sitchensis</td>
<td>Sitka spruce</td>
</tr>
<tr>
<td>Pinus contorta</td>
<td>Lodgepole pine</td>
</tr>
<tr>
<td>Tolmiea menziesii</td>
<td>Pickaback plant</td>
</tr>
<tr>
<td>Oxalis articulata</td>
<td>pink sorrel</td>
</tr>
<tr>
<td>Oxalis incarnata</td>
<td>pale pink sorrel</td>
</tr>
<tr>
<td>Ulex europaeus</td>
<td>European gorse</td>
</tr>
</tbody>
</table>

### Table 10: invasive birds

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anser anser</td>
<td>Feral goose/feral resident greylag</td>
</tr>
<tr>
<td>Branta canadensis</td>
<td>Canada goose</td>
</tr>
</tbody>
</table>

### Table 11: invasive fish

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyprinus carpio</td>
<td>common carp, mirror carp *</td>
</tr>
<tr>
<td>Perca fluviatilis</td>
<td>perch*</td>
</tr>
<tr>
<td>Rutilus rutilus</td>
<td>roach*</td>
</tr>
<tr>
<td>Scardinius erythrophthalmus</td>
<td>rudd*</td>
</tr>
<tr>
<td>*</td>
<td>rainbow trout</td>
</tr>
</tbody>
</table>

* species known to be invasive elsewhere (Global Invasive Species Database)

### Table 12: Invasive terrestrial mammals

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus musculus</td>
<td>house mouse</td>
</tr>
<tr>
<td>Mustela putorius furo</td>
<td>polecat ferret</td>
</tr>
<tr>
<td>Rattus norvegicus</td>
<td>brown rat</td>
</tr>
<tr>
<td>Oryctolagus cuniculus</td>
<td>rabbit</td>
</tr>
<tr>
<td>Felis domesticus</td>
<td>domestic cat</td>
</tr>
</tbody>
</table>
### Table 13: Invasive marine plants

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Codium fragile</td>
<td>green sea fingers</td>
</tr>
<tr>
<td>1 Sargassum muticum</td>
<td>Sargassum or japweed</td>
</tr>
<tr>
<td>1 Colpomenia peregrine</td>
<td>Oyster thief</td>
</tr>
</tbody>
</table>

### Table 14: Invasive invertebrates

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Artioposthia triangulata</td>
<td>New zealand flatworm</td>
</tr>
<tr>
<td>1 Australopiana sanguinea alba</td>
<td>Australian flatworm</td>
</tr>
<tr>
<td>1 Otiorhynchus sulcatus</td>
<td>Vine weevil</td>
</tr>
<tr>
<td>1 Gammarus pulex</td>
<td>freshwater shrimp</td>
</tr>
<tr>
<td>Scolytus multistriatus</td>
<td>elm bark beetle</td>
</tr>
<tr>
<td>Scolytus laevis</td>
<td>elm bark beetle</td>
</tr>
<tr>
<td>1 Crangonyx pseudogracilis</td>
<td>North American freshwater shrimp</td>
</tr>
</tbody>
</table>
Climate change
Currently DEFA is contributing to work by the Marine Biological Association on rocky shore invertebrates which are marine indicators of climate change. Our own fishermen are seeing changes, with bass (*Dicentrus labrax*) being seen more commonly around our coasts all year and there are many more spider crabs (*Maja squinado*) and Poli’s stellate barnacle (*Chthamalus stellatus*) is now occurring here.

We are seeing changes in our native butterfly fauna with two new species becoming resident, comma (*Polygonia c-album*) and speckled wood (*Pararge aegeria*). Red admiral (*Vanessa atalanta*) and the Hummingbird Hawkmoth (*Macroglossum stellatarum*) are now showing evidence of breeding and over-wintering on the Island.

The seawater temperature measurements which began in 1904 by the Port Erin Marine Laboratory and continued by the government laboratory have shown a 1 °C rise. Figures held by our meteorological office have also shown rising trends. There is no question we are seeing more frequent storm events.

No analysis has been done on which habitats could be affected by climate change, but sea level rise and increased storminess could threaten our saltmarshes and dune systems, as well as the soft cliffs in the north of the Island.

No analysis has been done on which species could be affected by climate change but the very few alpine plants such as dwarf willow (*Salix herbacea*) on Snaefell could be affected.

It is expected that some invasive species would benefit – such as Hottentot fig (*Carpobrotus edulis*). The spread of Dutch elm disease is greater in warm summers. Japweed, (*Sargassum muticum*) is now found in warm shallow tidal pools, and oysterthief, (*Colpomenia peregrine*) is well established in at least 1 site. Both may be affected by the rise in sea temperature.


Examples of current and past efforts to mitigate threats.

There is ongoing herbicide control of Japanese knotweed along water courses and in other situations, but not a systematic programme starting at upstream sites and working down. The introduction of the psyllid bug, a biological control agent, has been consulted on and this may be used, depending on the results of the UK trials.

Shortly after the discovery of *Sargassum* manual weed removal was tried at one site. This proved ineffective. This seaweed is now widely colonised in the south of the Island.

Incentives for control of invasive weeds were included in the pilot Agri-environment Scheme. However they have not been taken up. Invasive weed control is a condition of the Countryside Care Scheme. The scheme requires, in the Undergrazing section, participants to...
infestation by species such as Gorse, Giant Hogweed, Japanese Knotweed, Himalayan Balsam and injurious weeds. Injurious weeds include all weeds listed under Weeds Act of 1957.
## Appendix 9: Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Funded by</th>
<th>Start date</th>
<th>End date</th>
<th>outcomes</th>
<th>Lessons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravel pits restoration</td>
<td>Aggregates company, Manx Birdlife and DAFF/DEFA</td>
<td>2002</td>
<td>On-going</td>
<td>Natural wetland habitats being established</td>
<td>Natural regeneration takes place but feral goose numbers need managing (off-site).</td>
</tr>
<tr>
<td>Basking shark project; sightings, tagging and DNA</td>
<td>DAFF/DEFA and others</td>
<td>2007</td>
<td>On going</td>
<td>Tags recovered from NW Atlantic, sightings mapped and analysed</td>
<td>Manx basking sharks can move across Atlantic.</td>
</tr>
<tr>
<td>Wildflowers of Mann</td>
<td>DEFA, DOI, DCCL</td>
<td>1999</td>
<td>On-going</td>
<td>Establishment of native wildflower nursery, demonstration gardens and seed sales</td>
<td>It is difficult to create large areas of habitat unless funding or incentives in place.</td>
</tr>
<tr>
<td>Marine Nature Reserve</td>
<td>DEFA</td>
<td>2008</td>
<td>2011</td>
<td>One site will be selected and designated</td>
<td>Involvement of fishermen is essential</td>
</tr>
<tr>
<td>Bat survey road transects</td>
<td>Manx Bat Group, some DEFA funding for equipment</td>
<td>2007?</td>
<td>?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marine Spatial planning</td>
<td>DEFA, DOI, DED</td>
<td>2010</td>
<td>2013</td>
<td>Consensus on marine plan for sustainable sea use, supporting legislation and policies.</td>
<td></td>
</tr>
<tr>
<td>Sustainability index for birds, (10^6 island each year)</td>
<td>DEFA</td>
<td>2006</td>
<td>2015</td>
<td>Trends in 35+ common breeding birds.</td>
<td></td>
</tr>
<tr>
<td>Isle of Man Flora atlas</td>
<td>Various, largely voluntary</td>
<td>2009</td>
<td>2014</td>
<td>Updated plant distributions by tetrads.</td>
<td></td>
</tr>
</tbody>
</table>
Appendix 10: Bibliography


Appendix 11: Links
http://www.gov.im/isleofman/
http://www.manxwt.org.uk/
http://www.manxbirdatlas.org.uk/index.shtml
http://www.mwdw.net/Home2.aspx
http://www.manxbaskingsharkwatch.com/
http://www.gov.im/daff/enviro/climatechange.xml