Findhorn Sand Dune Restoration Project

'Star Species' and Scottish Biodiversity List Species found on the Findhorn Dunes

Table 1. Rare species

Species	Common name	Ecology
Ammophila	Red-banded	Scottish Biodiversity List species, known from only two or
sabulosa	sand wasp	three places in Scotland. A solitary hunting or 'digger' wasp,
		it nests in bare or sparsely vegetated sand. Nests are
		provisioned with several paralysed caterpillars upon each of
		which a single egg is laid. Remarkably, the species is known
		to steal caterpillars from neighbour's nests, removing the
		egg and laying its own.
Linnaemya	Fly	The only Scottish record of this mostly coastal parasitic fly.
comta		The adults are pollinators, but lay their eggs on moths,
		which the larvae then consume.
Metopia	Fly	Nationally scarce species, which is very rarely recorded.
tshernovae		Restricted to coastal sites
Pamponerus	Pied-winged	Restricted to three small coastal areas in Scotland and is a
germanicus	robber fly	Scottish Biodiversity List species.
		Robber flies, also called assassin flies, are expert ambush
		predators. Powerfully built, with strong legs to help with
		prey capture and stiff bristles for self-defence, they have
		voracious appetites and help to maintain a healthy balance
		between insect populations. Living in the sand, their larvae
		are also predatory, feeding on the eggs and larvae of other
		insects
Phthiria pulicaria	Flea bee-fly	Restricted to seven small coastal areas in Scotland
Tipula nodicornis	Cranefly	Restricted to five small areas in the UK, all in Scotland
Scythris	Moth	Only found at two sites in Scotland, Findhorn Dunes being
empetrella		the most important. Requires crowberry and heather
		growing in sand to complete its lifecycle
Actebia praecox	Portland Moth	This attractive and rather docile moth is restricted to a small
		number of coastal sites, its national stronghold being in the
		Moray Firth.
		It inhabits sparsely vegetated dunes with loose sand. The
		larvae emerge from their sandy burrows at night to feed on
		creeping willow and other sand-dune plants
Longalatedes	Lyme Grass	Restricted to coastal sandy habitats
elymi	moth	
Caryocolum	Moth	New to science as recently as 1981. Its UK range is limited to
blandelloides		dune systems in the western Moray Firth and it is another of
		our precious 'unseen beings'. Its caterpillars feed within the
		flowers of field mouse ear, which grows amongst dry dune
		grassland and on the edges of patches of sand and shingle
Gravesteiniella	Leafhopper	The first UK record for the leafhopper Gravesteiniella boldi
boldi		was from the Findhorn Hinterland, in 2022! It is a dweller of
		coastal sandhills with marram grass

Muirodelphax aubei	Planthopper	Only recorded at one other site in Scotland
Macropsis fuscula	Planthopper	Only been found once before in Scotland, at Gretna Green
Peltigera malacea	Felt lichen	Scottish Biodiversity List, Red Data Book, Endangered and Nationally Rare species. There are significant populations at Findhorn. Found on sand and near moss, often at the edge of tracks. The lichen can appear a vibrant bright green in wet weather.
Scytinium palmatum	Lichen	Nationally Scarce species, found growing on sand
Cladonia mitis	Lichen	Scottish Biodiversity List. Restricted to six coastal locations in Scotland
Polycoccum trypethelioides	Lichenicolous fungus	Classed as Near Threatened. Restricted to six small areas in Scotland. Grows on the pioneer lichen <i>Stereocaulon condensatum</i> often the first lichen to appear on bare sand
Dacampia peltigericola	Lichenicolous fungus	This lichenicolous fungus is only known in Britain from the Findhorn dunes! It has been found here growing on the endangered lichen Peltigera malacea, which is found on sand and near moss, often at the edge of tracks.
Sabuloglossum arenarium	Sandy Earthtongue fungus	Recorded at only two sites in the UK. A sand and dune heath specialist
Phellodon melaleucus	Grey Tooth Fungus	Scottish Biodiversity List. A rare find in Britain, especially on the coast, and even more so growing away from trees, as most records are from Caledonian pine forest. It is a more frequent sight in some parts of southern Europe and is also recorded in North America

Table 2. Scottish Biodiversity List Species

Mammals:

- Brown hare
- Brown long-eared bat
- Natterer's bat
- Pipistrelle bat
- Soprano pipistrelle

Reptiles:

Common lizard

Birds:

- Linnet
- Yellowhammer

Butterflies:

• Small heath

Moths:

- Cinnabar moth
- Ear moth
- Mouse moth
- Shoulder-striped wainscot moth
- Garden tiger
- Small phoenix
- Galium carpet
- Grass rivulet
- Grey mountain carpet
- Autumnal rustic
- Garden dart
- White line-dart
- Rosy minor moth
- Rosy rustic moth
- Lunar yellow underwing (old records, a target for new survey)

- Shaded broad-bar moth
- White ermine moth
- Anomalous moth

Flowering plants:

Shepherd's cress *Teesdalia nudicaulis*

Lichens:

- Cladonia mitis
- Cladonia unicalis subsp. unicalis
- Matt felt lichen *Peltigera malacea*
- Stereocaulon glareosum
- Melaspilea interjecta
- Rhizocarpon cinereovirens

