

The developing outcomes of rat eradication programmes on south-west Islands

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Island Restoration – A Global Perspective

- Islands support 20% flora & fauna less than 5% land mass
- 64% ICUN extinct & 45% critically endangered live or have lived on islands
- Non-native invasive species are the single most important reason for biodiversity loss worldwide after habitat loss
- Globally recognised. Up to 2011

 664 island restoration projects
 in 33 countries, 10 successful rat
 removal projects in the UK





SOUTH WEST PERSPECTIVE

- A special place for breeding sea birds with over 80,000 birds of 17 species
- 3 SPAs and 13 SSSIs with seabirds
- The only English colonies of Storm Petrel and Manx Shearwater (two UK priority seabirds threatened by non-native invasive species)
- The focus of two major island restoration projects, one on Lundy and one on the Isles of Scilly





LUNDY

- Lundy is designated as an SSSI for its seabirds
- It is one of only two colonies of Manx Shearwater in England













ISLAND RESTORATION STATUS

- Removal phase completed in 2002
- Rat free status confirmed in 2004
- Bio-security measures in place and no rat sign since then



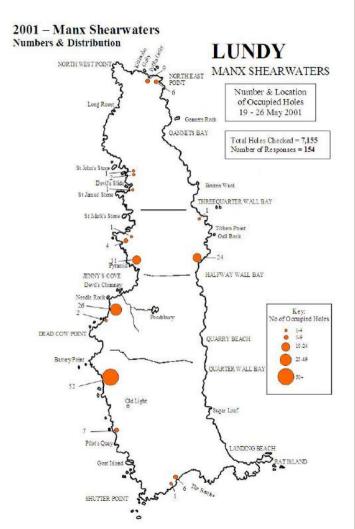


OUTCOMES

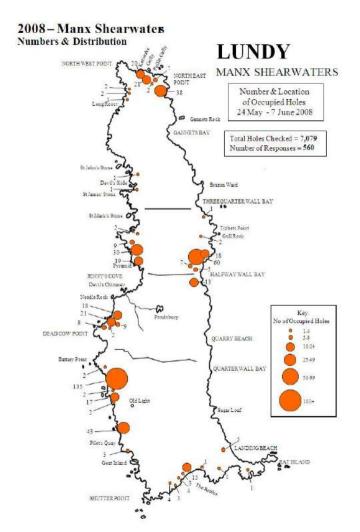
- 1st Manx shearwater chick
- Manx shearwaters have increased tenfold from c300 to 3,451 pairs
- Puffins from 6 to 80 pairs
- Overall seabird population doubled 7,351 to 14, 776 pairs
- 1st storm petrel chick in 2014



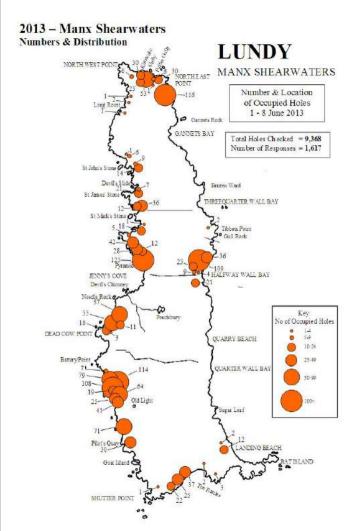














ISLES OF SCILLY

- Greatest diversity of breeding seabirds in England: 20,000 seabirds of 14 species
- Internationally important for European storm petrel and lesser black-backed gull
- Other unique wildlife
- Seabird populations have declined by over 25% in the last 25 years





ISLES OF SCILLY SEABIRD RECOVERY PROJECT

Aims:

- Reverse recent declines in seabird populations through removal of the non-native brown rat from the islands of St Agnes and Gugh
- Enable people to learn about, take pride in, and play an active role in celebrating and conserving their seabird heritage.
- Train and support island communities to embrace the benefits of seabird recovery, and continue to protect their heritage once the project has ended.























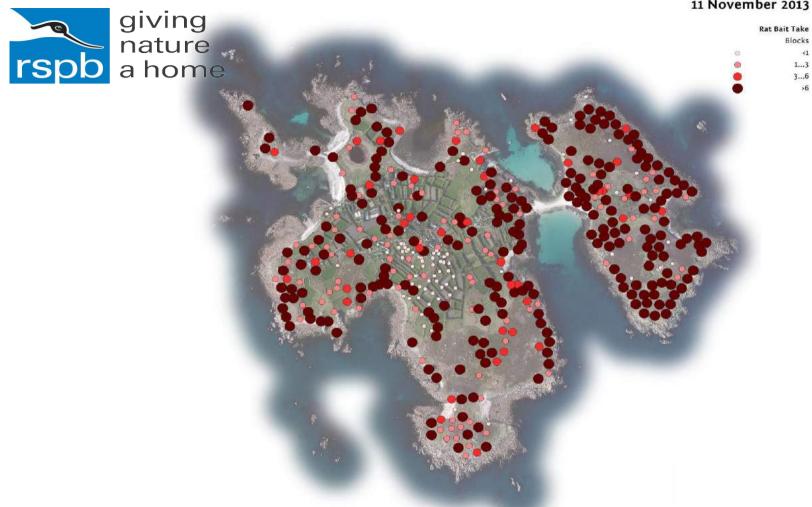
nature ISLAND RESTORATION STATUS

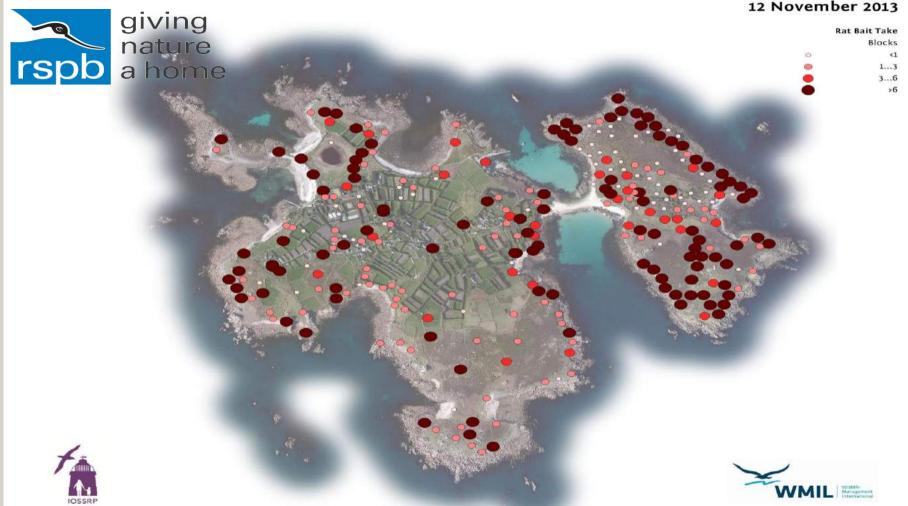
- 2010-2013 Feasibility and funding
- 2013 Preparation
- 2013/2014 Removal phase and intensive monitoring
- 2014/16 Long term monitoring
- 2016 Final check
- 2016 Biosecurity



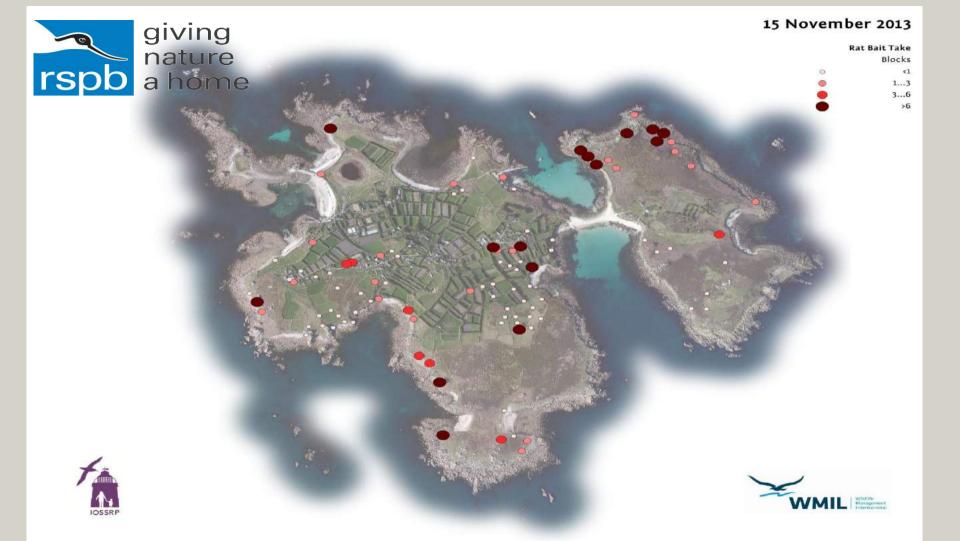






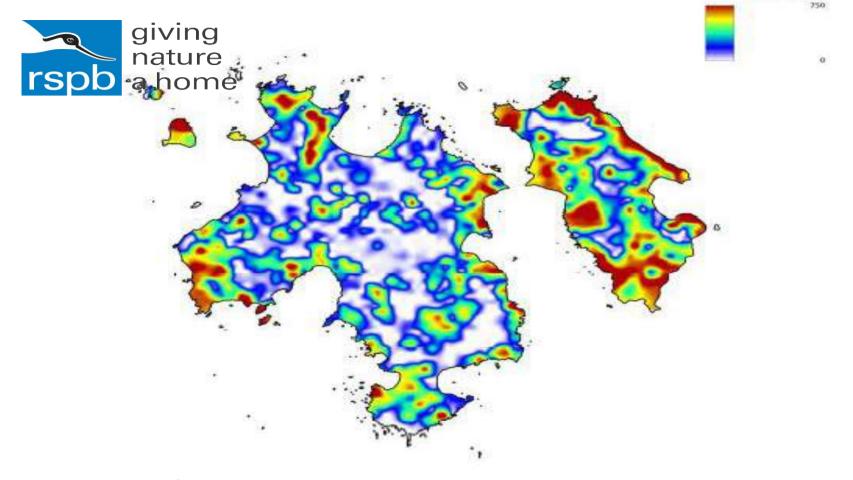












Distribution of bait take by Brown Rats on St Agnes and Gugh, 8 November 2013 to 8 March 2014. Red denotes highest amount of bait take



ECOLOGICAL MONITORING

2013 Baseline

- Seabirds
- Land birds
- Mammals
- Invertebrates
- Plants
- Fixed point photography

2014 first year post removal monitoring 2015 All island survey 2016/17 final monitoring







OUTCOMES

- Manx shearwater
- Shrews
- Land birds
- Other taxa





COMMUNITY INVOLVEMENT

- 100% support
- Waste management
- Removal and Biosecurity
- Engaging visitors







