



BIRD REPORT FOR THE SHIANT ISLANDS 22nd JUNE – 7th JULY 2013

This report was compiled following a visit by the Shiants Auk Ringing Group from 22 June to 7 July 2013. The Ascrubs were visited on 30 June and the Fladaigh Chuain on 30 June and 7 July: David Steventon has written separate reports of these visits.

This year's visit was characterised by regular spells of south-westerly and westerly winds with rain. This meant that the number of days we could get on with our seabird studies was reduced. We managed just one visit to Eilean Mhuire, failed to get round to the east side of Eilean an Taighe but compensated by adding extra Puffin mist-netting sessions in a new part of Airighean a' Bhàigh on Garbh Eilean. The late winter and spring had resulted in a delay to the breeding season, with Razorbill and Guillemot hatching about two weeks later than usual. Only seven Razorbill pulli were ringed whereas we would reasonably have expected to have ringed several hundred pulli over the dates of our visit in a normal breeding season. No Guillemot pulli were ringed. Shags appeared to have given up breeding, with only 11 pulli ringed. On the other hand, we found more Great Black-backed pulli than in any of the recent years.

Our thanks go to Tom Nicolson for permission to use the bothy during our stay on the Shiants. We are grateful to the Joint Nature Conservation Committee for providing free auk rings through the British Trust for Ornithology.

The expedition members were Jez Blackburn, Laura Blackburn, Katherine Bowgen, Ian Buxton, Alistair Clunas, Carole Davis, Dave Dutton, Rhys Goodhead, Ron Hodgson, Jim Lennon, Charlie Main, Bob Medland, Karen Murray, David Steventon, Alice Tribe and Ruth Walker. We were joined by Brian Jackson in the first week, studying the mineralogy of the islands, and by Charlie Elder, studying the Black Rats in the second week. Additionally we had a BBC Coast programme team with us for three days in the second week, filming the Puffins at Airighean a' Bhàigh and elsewhere. Their team was Miranda Krestovnikoff (presenter), Dan Davis (director and camera), Brian Osborne (sound) and Phyllida O'Neil (research).

On the Shiants, a total of 38 species were seen, 1,937 birds of 11 species were ringed, and 490 birds were retrapped/recovered. Appendix 1 shows the total numbers of each species ringed on the Shiants during the visit.

The following abbreviations are used in the text:

AOT - Apparently Occupied Territories

Code letters used as follows for each species to denote the records being used for the text:-

A = A species for which all records are given

B = A species for which a summary of the records is given

C = A species for which selected records are given, e.g. migration, weather movements, unusual dates etc.

D = A species recorded about which there is nothing to report

The codes for the ringing recoveries in the text are listed in Appendix 2.

C Fulmar

Fulmaris glacialis

Seen daily. A movement counted off Mianais on Eilean an Taighe on 30 June with 50 west and 14 east in one hour.

A Manx Shearwater

Puffinus puffinus

Movement counted off Mianais on Eilean an Taighe on 30 June with three west and one east in one hour.

B Storm Petrel

Hydrobates pelagicus

Conditions were not good for sound luring petrels most nights and when they were, very few were about with only four ringed on one night and none caught on two other nights. Since the last report we have received details of eight ringed Storm Petrels. Most recoveries are from sub-adult 'wanderers'. However, the capture of 2359988 in four out of five years on Priest Island suggests it is breeding there. We also had details of our first Norwegian ringed bird, but it is about the 700th Norwegian bird controlled in Britain & Ireland.

| Ring No. | Age | Ringing date | Ringing location | | |
|----------|-----|--|--|----------|-----------|
| | | Control/ recovery date, duration | Control/recovery location | Distance | Direction |
| 2359988 | 4 | 17-07-08 | Eilean an Taighe, Shiant Isles | | |
| | R | 13-06-09 331 days | Priest Island, Highland Region | 50 km | 82° |
| | R | 20-06-2010 703 days | Priest Island, Highland Region | | |
| | R | 18-06-2011 1,066 days | Priest Island, Highland Region | | |
| | R | 15-06-2013 1,794 days | Priest Island, Highland Region | | |
| 2649026 | 4 | 01-07-09 | Eilean an Taighe, Shiant Isles | | |
| | R | 27-07-13 1,487 days | Scurdie Ness, Angus | 270 km | 182° |
| 2649307 | 4 | 02-07-11 | Eilean an Taighe, Shiant Isles | | |
| | R | 27-07-12 391 days | Porth Iago, Llyn Peninsula, Gwynedd | 569 km | 178° |

| | | | | | |
|----------------|---|----------------------|--------------------------------------|--------|------|
| 2649396 | 6 | 08-07-11 | Eilean an Taighe, Shiant Isles | | |
| | R | 26-06-12 354 days | Treshnish Isles Argyll and Bute | 156 km | 182° |
| 2649476 | 6 | 28-06-12 | Eilean an Taighe, Shiant Isles | | |
| | R | 15-06-13 352 days | Priest Island Highland region | 50 km | 82° |
| 2654665 | 4 | 06-08-11 | Craig Stirling, Aberdeenshire | | |
| | R | 28-06-12 326 days | Eilean an Taighe, Shiant Isles | 269 km | 291° |
| 8E05904 | 4 | 19-06-11 | Lindesnes Fyr, Vest-Agder, Norway | | |
| r/r 2649482 | R | 27-06-12 374 days | Eilean an Taighe, Shiant Isles | 791 km | 270° |

C Gannet

Morus bassanus

Single figures seen offshore on most days. A movement counted on a sea watch off Mianais on 30 June with seven west and six east in one hour. One dead adult washed ashore by the bothy on 1 July.

A Cormorant

Phalacrocorax carbo

One found dead at the south end of the beach by the bothy on 6 July.

B Shag

Phalacrocorax aristotelis

The monitoring of nests on the SW coast of Eilean an Taighe continued. It was a poor year for breeding at the site with only 11 nesting attempts in 2013 compared with 21 in 2012, with only 3 nests producing young in 2013 compared with 15 in 2012. A dead adult was found in the colony.

| Eilean an Taighe SW Study Colony: | 5th July 2012 | 4th July 2013 |
|-----------------------------------|---------------|---------------|
| Nest built | 2 | 2 |
| Nest failed | 1 | 1 |
| Adult sitting | 0 | 1 |
| Nest with eggs | 2 | 4 |
| Nests with eggs and young | 1 | 0 |
| Nests with young | 15 | 3 |
| Total | 21 | 11 |

A total of two adults and 11 pulli were ringed with eight retraps. 72 on Sgeir Mianais on 24 June and 47 on 4 July. 19 at the south west end of Eilean Mhuire on 26 June.

Historic ringing data for shags ringed and recovered on the Shiant Islands were entered into IPMR and this threw up two interesting birds recovered at the Shiant Islands that were ringed at Great Saltee, Co Wexford and Grunta Hellier, Shetland as pulli. It is unusual for pulli to be found at another colony:-

“Despite there being a few long-distance movements, for instance chicks reared on Foula (Shetland) breeding 934km on Great Saltee (Co Wexford) and 505 km away on the Farne Islands (Northumberland) (Harris and Swann, 2002a), most young shags that survive recruit to their natal colony and, once they have bred, rarely move elsewhere (Aebischer, 1995)”

Mitchell et al (2004) Seabird Populations of Britain and Ireland.

| | | | | | |
|---------|----|-------------------------|---|--------|------|
| 1110518 | 1 | 31-05-75 | Great Saltee, Co.Wexford | | |
| | 6M | 26-06-82 2,583 days | Eilean an Taighe, Shiant Isles | 641 km | 2° |
| 1117041 | 1 | 23-06-75 | Grunka Hellier, Shetland | | |
| | 6F | 21-06-82 2,555 days | Garbh Eilean, Shiant Isles | 447 km | 224° |
| 1169903 | 1 | 26-06-82 | Garbh Eilean, Shiant Isles | | |
| | X | 14-08-13 11,378 days | Rhuba Phoil, Armadale, Skye, Highland (ring only found) | 99 km | 164° |
| 1446007 | 6M | 07-07-09 | Garbh Eilean, Shiant Isles | | |
| | XF | 07-08-13 1,492 days | Shiant Isles (entered lobster pot) | 0 km | 0° |
| 1454299 | 1 | 30-06-12 | Garbh Eilean, Shiant Isles | | |
| | X | 24-06-13 328 days | Orphir, Orkney | 222 km | 59° |

A Greylag Goose

Anser anser

Two at the south west of Eilean Mhuire on 26 June. Two at Mianais on Eilean an Taighe on 27 June. One by the bothy on 28 June. One off Eilean an Taighe on 30 June. One off Eilean an Taighe and two at Stocanais on 5 July. One corpse, an adult in pin, found on the beach by the bothy on 6 July.

B Common Eider

Somateria mollissima

Up to six females with up to five small young seen regularly between the beach by the bothy and the causeway. Two females each with two young on the east side of Eilean Mhuire on 26 June. Female off the bottom of the Puffin slope at Airighean a' Bhàigh on 3 July and again on 4 July with one duckling.

A White-tailed Eagle

Haliaeetus albicilla

The best year yet for records of this species. Two sub adults flying south east from Eilean Taighe towards the mainland on 24 June. One adult and one sub adult seen on 26 June and 5 July, at the north of Garbh Eilean near to the Puffin slope at Airighean a' Bhàigh . One sub adult to the south west of Eilean an Taighe on 27 June. A distant bird seen off the Puffin slope at Airighean a' Bhàigh on 3 July.

A Buzzard

Buteo buteo

One seen over Carnach Mhor on 26 June.

A Peregrine

Falco peregrinus

One seen near Campar on Eilean an Taighe on 23 and 25 June. No evidence of breeding. One at Stocanais on 5 July.

B Oystercatcher

Haematopus ostralegus

Eilean an Taighe: pair with three downy young near the bothy.
Garbh Eilean: pair with two well grown young at the bottom of the Puffin slope at Airighean a' Bhàigh ; pair with one young at the pool above Toll a' Roimh.

A Ringed Plover

Charadrius hiaticula

One at the south end of Eilean an Taighe on 26 June and 4 July.

A Golden Plover*Pluvialis apricaria*

Five over Garbh Eilean on 26 June.

B Snipe*Gallinago gallinago*

Two adults on Eilean an Taighe with one heard drumming and two chicks found on 27 June. Three on Garbh Eilean, two of which were drumming.

A Whimbrel*Numenius phaeopus*

One off the south end of Eilean an Taighe on 24 June and two off the south end of Eilean Mhuire on 26 June.

A Common Sandpiper*Actitis hypoleucos*

Pair on the beach by the bothy on Eilean an Taighe throughout 23 June to 6 July with three chicks found and ringed on 26 June. This is the first breeding record since visits recommenced in 2008.

A Redshank*Tringa totanus*

One at the bottom of the Puffin slope at Airighean a' Bhàigh on Garbh Eilean on 5 July.

A Arctic Skua*Stercorarius parasiticus*

One dark phase bird between Eilean an Taighe and Eilean Mhuire on 28 June. One dark phase bird off the Puffin slope at Airighean a' Bhàigh on Garbh Eilean on 3 July. Three near the cairn on Eilean an Taighe on 6 July.

B Great Skua*Stercorarius skua*

Maximum of four on Eilean an Taighe, but no sign of breeding. One of the adults seen at the south end of Eilean an Taighe was wearing a ring above the tarsus, which means it was most likely ringed abroad, but this could not be read by telescope or binoculars. Count of 17 on 26 June on Garbh Eilean where only one nest of two eggs found, one of which was chipping.

B Common Gull*Larus canus*

Eight pairs bred at Annaid on Garbh Eilean where 18 pulli ringed. Count of 25 off shore near the bothy on Eilean an Taighe on 28 June.

B Lesser Black-backed Gull*Larus fuscus*

A count of ten birds in the colony at the top of Eilean an Taighe above Campar on 6 July. Only four nest sites found and three pulli ringed.

B Herring Gull*Larus argentatus*

Total of 17 pulli ringed from 15 broods in a colony west of Annaid on Garbh Eilean on 26 June and 5 July. One colour ringed pullus was found dead in a stubble field in Northern Ireland and it may be that the orange and black ring caught the finder's eye.

| | | | | | |
|---------|---|----------|----------------------------|--------|------|
| GR68815 | 1 | 26-06-13 | Garbh Eilean, Shiant Isles | | |
| | R | 10-12-13 | Bushmills, Antrim | 301 km | 182° |

B Great Black-backed Gull*Larus marinus*

Empty nest on the beach below the Puffin colony at Airighean a' Bhàigh on Garbh Eilean on 25 June. Ten (representing possibly five pairs) at Mianais on Eilean an Taighe on 26 June.

Total of 20 pulli ringed from 11 broods on Eilean Mhuire on 26 June. 33 adults counted on the top of Eilean Mhuire as viewed from above the Puffin colony at Airighean a' Bhàigh on 4 July. One near the Lesser Black-backed Gull colony on Eilean an Taighe on 6 July.

C Kittiwake

Rissa tridactyla

Total of 32 AONs at Eilean an Taighe sample colony 12 (at Campar) where 22 in 2012 and 21 in 2011. Count of 1200 over the water off Eilean Mhuire on 4 July. One immature off the south end of Eilean an Taighe on 5 July.

C Guillemot

Uria aalge

Sample colony counts at selected sites showed a decline in the largest section at Stocanais:

| Year | 2010 | 2011 | 2012 | 2013 |
|-----------------------------|------|------|------|------|
| Garbh Eilean Section 6 | 1743 | 1853 | 1668 | 1347 |
| Eilean an Taighe Section 12 | 33 | 67 | - | 52 |
| Eilean Mhuire Section 36 | 116 | 133 | - | 133 |
| Eilean Mhuire Section 37 | 653 | 763 | - | 630 |

A total of 258 birds were counted in small groups on Eilean Mhuire specifically to obtain a bridled percentage: there were 24 bridled birds, 9.3%. Previous bridled counts showed 11.8% in 1982 and 10.4% in 1970.

Only 11 adults and no pulli were ringed. Breeding season appeared to be at least two weeks behind previous years' schedules.

C Razorbill

Alca torda

Sample colony counts at selected sites:

| Year | 2010 | 2011 | 2012 | 2013 |
|-----------------------------|------|------|------|------|
| Garbh Eilean Section 6 | 76 | 132 | 135 | 84 |
| Eilean an Taighe Section 12 | 19 | 20 | - | 25 |
| Eilean Mhuire Section 36 | 41 | 36 | - | 33 |
| Eilean Mhuire Section 37 | 80 | 37 | - | 44 |

Immature birds (fledged in 2012) were caught at Carnach Mhor on 1 and 5 July and photographs taken for reference purposes.

Only seven pulli were ringed. Breeding season appeared to be at least two weeks behind previous years' schedules. Four predated birds were found at the north beach of Carnach Mhor on 25 June.

On the Retrapping Adults for Survival (RAS) monitoring site at 'north beach' on Carnach Mhor a total of 180 adults ringed and 56 retraps made during five monitoring visits, with a retrap rate of 24%.

Details of 13 recoveries were received. Aside from birds predated on the Shiant, four Razorbills were recovered on the east coast of Britain and would have been part of the east coast 'wreck' caused by the strong north easterlies in winter/spring 2012/13. Whereas in 2011/12, recoveries were primarily on the east coast of the North Sea. However, we did have one 2012 pullus found dead on the Danish coast ten weeks later. The oldest recovery was a live Razorbill controlled 36 years after being ringed as a chick on Canna.

| | | | | | |
|--------|----|------------|----------------------------|------|----|
| K22649 | 6 | 24-06-10 | Garbh Eilean, Shiant Isles | | |
| | XF | 25-06-13 | Garbh Eilean, Shiant Isles | 0 km | 0° |
| | | 1,097 days | | | |

| | | | | | |
|--------|----|-------------------------|---|--------|------|
| K22670 | 6 | 24-06-10 | Garbh Eilean, Shiant Isles | | |
| | X | 01-07-13 1,103 days | Eilean an Taighe, Shiant Isles | 3 km | 0° |
| K23139 | 6 | 01-07-11 | Garbh Eilean, Shiant Isles | | |
| | X | 06-05-13 675 days | Scolt Head Island, Norfolk | 705 km | 141° |
| K23330 | 1 | 28-06-11 | Garbh Eilean, Shiant Isles | | |
| | XF | 06-05-13 631 days | North Sands, Hartlepool, Durham | 474 km | 139° |
| K25083 | 6 | 01-07-11 | Garbh Eilean, Shiant Isles | | |
| | X | 25-06-13 724 days | Garbh Eilean, Shiant Isles | 0 km | 0° |
| K27657 | 6 | 08-07-11 | Garbh Eilean, Shiant Isles | | |
| | X | 01-04-13 | Benacre, Suffolk | 799 km | 141° |
| K27935 | 6 | 09-07-11 | Garbh Eilean, Shiant Isles | | |
| | XF | 25-06-13 717 days | Garbh Eilean, Shiant Isles | 0 km | 0° |
| K33011 | 1 | 06-07-12 | Garbh Eilean, Shiant Isles | | |
| | X | 25-10-12 111 days | Redcar, Redcar & Cleveland | 492 km | 139° |
| K33094 | 6 | 03-07-12 | Garbh Eilean, Shiant Isles | | |
| | XF | 25-06-13 357 days | Garbh Eilean, Shiant Isles | 0 km | 0° |
| K33189 | 1 | 03-07-12 | Garbh Eilean, Shiant Isles | | |
| | XF | 13-09-12 72 days | Kaergard Strand, Tornby, Nordjyllands Amt, Denmark | 966 km | 93° |
| M22438 | 1 | 02-07-76 | Isle of Canna, Highland | | |
| | R | 26-06-13 13,508 days | Garbh Eilean, Shiant Isles | 96 km | 7° |
| M33175 | 1 | 30-06-78 | Shiant Isles | | |
| | X | 29-04-13 12,722 days | Off Ardmair, Highland At sea, eaten. | 68 km | 87° |
| M68253 | 1 | 30-06-12 | Garbh Eilean, Shiant Isles | | |
| | XL | 25-09-12 87 days | Singing Sands, Ardnamurchan, Highland | 128 km | 102° |

A Black Guillemot

Cephus grille

Two off the south end of Eilean an Taighe at Sgeir Mianais on 23 June and one there on 30 June. Two east of the causeway off the north end of Eilean an Taighe on 28 June and one near the causeway on 1 July. One on the north side of the Natural Arch on 25 June.

A Little Auk

Alle alle

Wing only found in the Great Black-backed Gull colony at Mianais on Eilean an Taighe on 30 June, probably predated the previous winter.

C Puffin

Fratercula arctica

On the Retrapping Adults for Survival (RAS) monitoring site at Airighean a' Bhàigh on Garbh Eilean a total of 661 adults were ringed and 312 retraps made during the monitoring visits on 25 June and 3 July, a retrap rate of 32%. This rate could have levelled out as birds

may not breed and or be caught every year, but the software used for the RAS analysis can account for this. The new RAS site at ‘north beach’ on Carnach Mhor had similar results with 57 Puffins ringed, 26 retraps and retrap rate of 31%.

The majority of the Puffins retrapped were from 2008 onwards. However, birds retrapped from earlier years are: 1982 - 1, 1985 - 1, 1989 - 6, 1990 - 1, 1992 - 1, 1995 - 1, 1996 - 1, 2003 - 5, and 2006 - 3.

Of the four recoveries since last report, two were predated on the Shiant, another during the breeding season while most likely foraging for fish and EL52803 was only the third Puffin we have caught that was ringed at another breeding colony. That is from c16,000 birds ringed on the Shiant since 1970.

| | | | | | |
|---------|----|-----------|--------------------------------|--------|----|
| EL52803 | 6 | 24-06-05 | Treshnish Isles, Argyll & Bute | | |
| | R | 28-06-13 | Garbh Eilean, Shiant Isles | 158 km | 2° |
| | | 2926 days | | | |
| EX49078 | 6 | 29-06-11 | Garbh Eilean, Shiant Isles | | |
| | XF | 13-05-13 | Ness, Isle of Lewis, | 66 km | 7° |
| | | 684 days | Western Isles | | |
| EX49433 | 6 | 25-06-12 | Garbh Eilean, Shiant Isles | | |
| | X | 05-07-13 | Garbh Eilean, Shiant Isles | 0 km | 0° |
| | | 375 days | | | |
| EX49078 | 6 | 25-06-12 | Garbh Eilean, Shiant Isles | | |
| | XF | 05-07-13 | Garbh Eilean, Shiant Isles | 0 km | 0° |
| | | 375 days | | | |

A Rock Dove

Columba livia

One over the cliff behind the bothy on Eilean an Taighe on 6 July. A bird seen on 26 June was considered to be a racing pigeon rather than a wild bird.

A Collared Dove

Streptopelia decaocto

One near the bothy on Eilean an Taighe on 1 July.

A Common Swift

Apus apus

One on Eilean an Taighe on 23 June. One at the Puffin slope at Airighean a’ Bhàigh on Garbh Eilean on 28 June, 3 and 5 July and two there on 4 July.

B Skylark

Alauda arvensis

Singing on both Eilean an Taighe and Garbh Eilean.

B House Martin

Delichon urbicum

Two seen almost daily at the causeway with three on 30 June; seen visiting a hole in the cliff on the Garbh Eilean side of the causeway on 1 July. One heard over the Puffin slope at Airighean a’ Bhàigh on Garbh Eilean on 25 June and one on Garbh Eilean on 28 June.

B Meadow Pipit

Anthus pratensis

Present on both Eilean an Taighe and Garbh Eilean. Fledged young seen on Eilean an Taighe.

B Rock Pipit

Anthus petrosus

Present on Eilean an Taighe from the bothy up to the causeway. One seen carrying food for young on 24 June.

A White Wagtail*Motacilla alba alba*

A male near the bothy on Eilean an Taighe on 23 June and up at the causeway on 24 June.

B Wren*Troglodytes troglodytes*

Garbh Eilean: two singing at Carnach Mhor and one singing at the Puffin slope at Airighean a' Bhàigh where three birds seen.

A Wheatear*Oenanthe oenanthe*

Eilean an Taighe: one near the bothy on 23 June and 3 July (not sexed); one at the causeway on 2 July; a male near the bothy on 4 and 5 July; and a male and a juvenile near the south end on 6 July.

Garbh Eilean: a male at and two others to the west of the Puffin slope at Airighean a' Bhàigh on 25 June; three near the dry stone wall running down to Annaid, of which two were juveniles, on 26 June; two juveniles at the bottom of the Puffin slope at Airighean a' Bhàigh on 5 July.

B Hooded Crow*Corvus cornix*

Seen on most days on Eilean Taighe with a maximum of 11 on 26 June and 5 July. One above the Puffin slope at Airighean a' Bhàigh on Garbh Eilean on 26 June.

B Raven*Corvus corax*

Seen regularly on Eilean an Taighe with a maximum of six on 2 July. Two on Eilean Mhuire on 26 June. Four above the Puffin slope at Airighean a' Bhàigh on Garbh Eilean on 26 June, seven on Garbh Eilean on 1 July and three over Carnach Mhor on 4 July.

A Twite*Carduelis flavirostris*

Two at the south end of Eilean an Taighe and a pair at Annaid on Garbh Eilean on 26 June.

The survey of passerines on Eilean an Taighe, by walking a fixed transect, was carried out on the 24th and 26th June. The data will be collated and published at a later date.

Report compiled by: David Steventon, Alister Clunas and Jim Lennon

Contact: Secretary of Shiant's Auk Ringing Group

Jim Lennon, The Dovecote, Main Street, Flintham, Newark, Notts NG23 5LA

Email: lennons@shearwater50.fsnet.co.uk

Appendix 1. Ringing Totals for 2013

| | Full grown | Pulli | Retraps/ Recoveries | Total |
|--------------------------|-------------------|--------------|--------------------------------|--------------|
| Storm Petrel | 4 | 0 | 0 | 4 |
| Shag | 2 | 11 | 8 | 21 |
| Oystercatcher | 0 | 2 | 0 | 2 |
| Common Sandpiper | 0 | 3 | 0 | 3 |
| Common Gull | 0 | 18 | 5 | 23 |
| Herring Gull | 2 | 14 | 3 | 19 |
| Lesser Black-backed Gull | 0 | 3 | 0 | 3 |
| Great Black-backed Gull | 1 | 27 | 0 | 28 |
| Guillemot | 11 | 0 | 2 | 13 |
| Razorbill | 385 | 7 | 86 | 478 |
| Puffin | 1444 | 3 | 386 | 1833 |
| Total: | 1849 | 88 | 490 | 2427 |

Additionally, the following were ringed on the Ascribs:

| | Full grown | Pulli | Retraps/ Recoveries | Total |
|-------------------------|-------------------|--------------|--------------------------------|--------------|
| Great Black-backed Gull | 0 | 2 | 0 | 2 |

and the following were ringed on Fladaigh Chuain:

| | Full grown | Pulli | Retraps/ Recoveries | Total |
|-----------------|-------------------|--------------|--------------------------------|--------------|
| Shag | 1 | 16 | 2 | 19 |
| Oystercatcher | 0 | 2 | 0 | 2 |
| Arctic Tern | 0 | 51 | 3 | 54 |
| Black Guillemot | 1 | 2 | 0 | 3 |
| Total: | 2 | 71 | 5 | 78 |

Appendix 2. Codes for Ringing Recoveries given in tables in the text

Age/sex codes:

1 = pullus (nestling/chick)

4 = hatched prior to calendar year of ringing, exact year unknown

6 = hatched prior to previous calendar year of ringing, exact year unknown

8 = hatched at least two years prior to calendar year of ringing, exact year unknown

Condition at recovery:

X = found dead

XF = found freshly dead or dying

XL = long dead

R = caught and released by a ringer

RR = sight record by a ringer

r/r = re-ringed