

# Treshnish Isles Auk Ringing Group

## Report for 2003

Compiled by  
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Expedition dates:  
21<sup>st</sup> June – 28<sup>th</sup> June 2003

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## INTRODUCTION

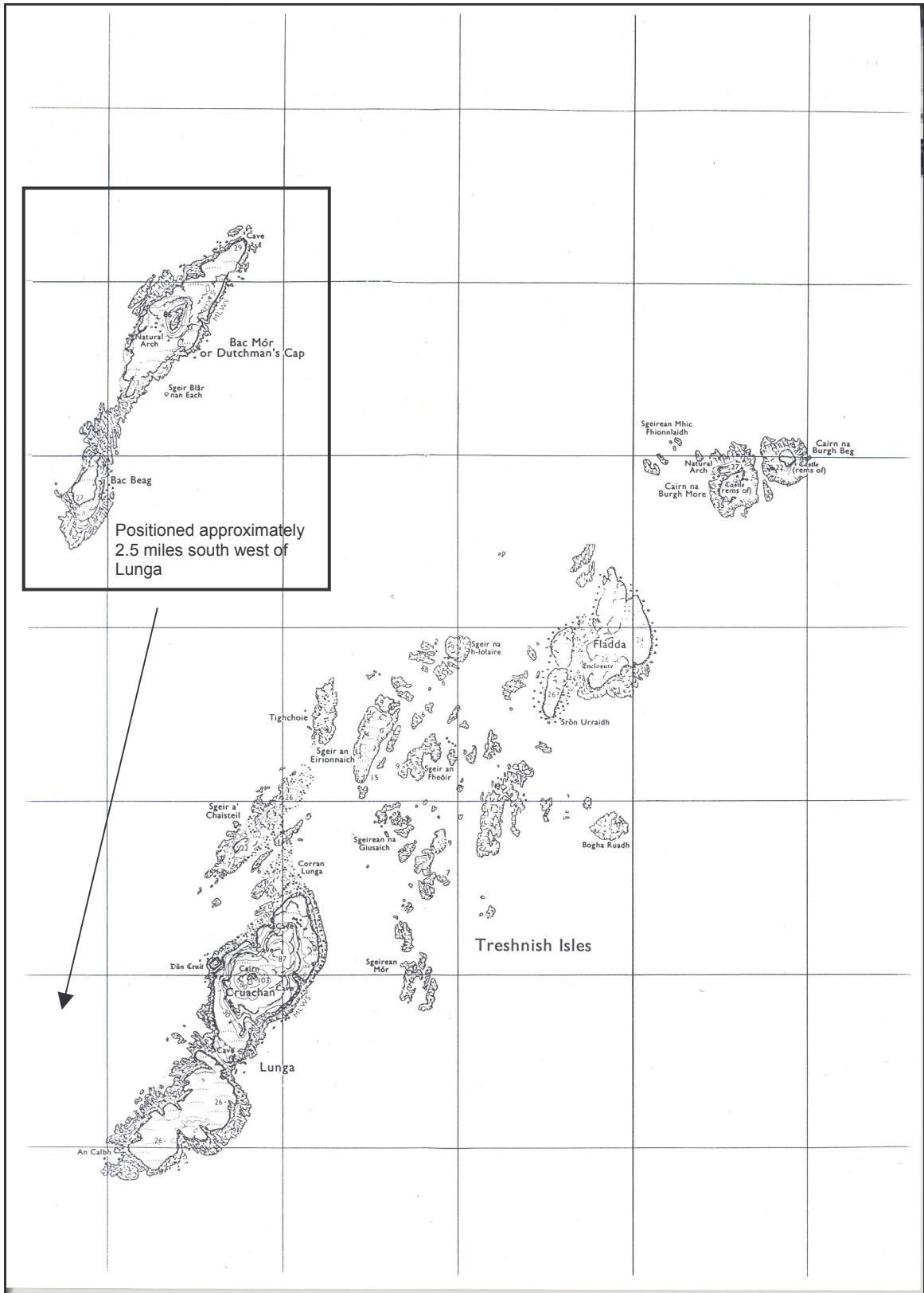
Since 1971, the Treshnish Isles Auk Ringing Group (TIARG) has undertaken to monitor through ringing and census work, the breeding seabird populations of the Treshnish Isles, Argyll (Walker & Cooper 1996). This report summarises the results of the Group’s 25<sup>th</sup> expedition to the Treshnish Isles on 21<sup>st</sup> June – 28<sup>th</sup> June 2003.

As in previous years, the expedition’s base was set up around the ruined village site at the northern end of Lunga. The majority of the week’s fieldwork was centred upon Lunga & Sgeir a Chaisteil where a now annual full seabird census and the systematic ringing of specific seabird colonies was undertaken. With much logistical help from Iain Morrison and his family, expedition members were in addition able to census in part the seabird colonies on Fladda, Sgeir a Chaisteil and Sgeir an Eirionnaich in 2003.

All TIARG census and ringing data are fed into two national monitoring programmes, the Seabird Colony Register (J.N.C.C.) and National Ringing Database (British Trust for Ornithology), respectively. The data supplied are of great conservation value as they are the sole means by which the seabird colonies of the Treshnish Isles are currently monitored. The conservation importance of these islands is recognised by their designation as a Special Protection Area by the UK Government for the breeding colonies of seabirds they support. Financial support for the monitoring work TIARG undertook in 2003 was given by the Hebridean Trust ([www.hebrideantrust.org](http://www.hebrideantrust.org)).

Any comments on the report and how future editions can be improved upon for relaying information required by conservation agencies are much welcomed.

# MAP OF THE TRESHNISH ISLES



## WEATHER

The BBC described the weather just before the expedition as being westerly and changeable. The stormiest weather occurred on the 17th June when a deep depression passed to the northwest of Scotland bringing gusts of 58mph to Lerwick and Sella Ness. The strong winds abated slowly over the next few days.

In Scotland, southwesterly winds blew throughout most of June, bringing a rather dull and wet month to parts of the west, but dry, bright and warm conditions to the east. Unsettled and showery weather predominated, but there were also interludes of warm and sunny weather. The amount of rainfall for June was categorised as being close to average (based on the 1961-1990 mean). The average temperature for June was 13°C, which was 1.9°C above the 1961-1990 mean and in the well above average category.

Weather for the period 21<sup>st</sup> to 27<sup>th</sup> June 2003, readings taken when ringing and census work allowed:

<b>Saturday 21<sup>st</sup> June 2003</b>	Time: 18:00 hours
Maximum Wind Speed	4 km/hr
Wind Direction	Northeast
Temperature	13.4 °C
Relative Humidity	73 %
Synopsis	A wet start, rainfall cleared by mid afternoon.

<b>Sunday 22<sup>nd</sup> June 2003</b>	Time: 12:00 hours
Maximum Wind Speed	5.8 km/hr
Wind Direction	Southeast
Temperature	13.5 °C
Relative Humidity	78 %
Synopsis	Very wet morning, showers in the afternoon.

<b>Monday 23<sup>rd</sup> June 2003</b>	Time: 16:00 hours
Maximum Wind Speed	23 km/hr
Wind Direction	West
Temperature	15 °C
Relative Humidity	76 %
Synopsis	Cool, windy day but mainly dry

<b>Tuesday 24<sup>th</sup> June 2003</b>	Time: 12:00 hours
Maximum Wind Speed	6 km/hr
Wind Direction	West
Temperature	19.2 °C
Relative Humidity	69 %
Synopsis	Warm, sunny and dry.

<b>Wednesday 25<sup>th</sup> June 2003</b>	Time: 18:00 hours
Maximum Wind Speed	6 km/hr
Wind Direction	Southeast
Temperature	21.2 °C
Relative Humidity	56 %
Synopsis	Hot and sunny during much of the day. Wind speed increased considerably in the evening, which meant that mist net operations that night on Fladda had to be cancelled.

**Thursday 26<sup>th</sup> June 2003**

Time: 18:00 hours  
 Maximum Wind Speed 8.8 km/hr  
 Wind Direction Southeast  
 Temperature 19.9 °C  
 Relative Humidity 57 %  
 Synopsis Warm, dry and sunny with moderate winds from the southeast.

**Friday 27<sup>th</sup> June 2003**

Time: 18:00 hours  
 Maximum Wind Speed 3.9 km/hr  
 Wind Direction Northwest  
 Temperature 15 °C  
 Relative Humidity 87%  
 Synopsis Rainfall for most of the day, nearly all ringing and census work had to be cancelled due to bad weather.

It was often possible to see Coll and Tiree from Lunga, especially during the middle of the week when anticyclonic conditions prevailed.

Km/hr	Beaufort wind scale	Wind Force
6-11	2	light breeze
12-19	3	gentle breeze
20-28	4	moderate breeze
29-38	5	Fresh Breeze
39-49	6	strong breeze
50-61	7	Near Gale

## SYSTEMATIC LIST OF BIRDS FOR 2003

The following systematic list is a brief account of those bird species seen whilst the Treshnish Isles Auk Ringing Group were present on the Treshnish Isles, 21<sup>st</sup> June – 28<sup>th</sup> June 2003. Unless specified, no records are available for the Cairn na Burghs and the Dutchmans. The status comments refer to the species' occurrence during the breeding season as recorded by previous years expeditions.

For some seabird species, average annual rates of population change have been calculated by linear regression of the natural logarithms of the breeding numbers on year. The significance of the slope of the regression, equivalent to the average annual rate of increase or decrease in the population, is then assessed using the t-statistic (Fowler & Cohen 1986). A detailed breakdown of breeding seabird numbers on Lunga and Chaisteil in 2003 is provided in a subsequent section of the report.

### **Fulmar** *Fulmarus glacialis*

A common breeding species

Breeding was confirmed on Fladda, Lunga and Sgeir a Chaisteil. Birds were also seen at suitable breeding sites at the Cairn na Burghs.

The breeding population for Lunga and Sgeir a Chaisteil was estimated at 523 based upon apparently occupied sites, a 17% increase from 2002. This increase was noted across most count sectors with the notable exception of Sgeir a Chaisteil where numbers had declined by 35% to 65 apparently occupied sites. When excluding the outlying count of 1995, the average rate of change in the numbers of breeding birds on Lunga and Sgeir a Chaisteil between 1994-2003 is calculated at -4.1% per annum, the significance of the trend being highly significant ( $P < 0.01$ ); when 1995 is included, the respective outcomes are -2.5% p.a. and a non-significant trend.

A rarely observed two-egg clutch was found in one nest of a species that usually lays only a single egg (Harrison 1985).

### **Manx Shearwater** *Puffinus puffinus*

A regular breeding species

Presumed breeding birds were seen at night on Lunga. During the evenings at Harp Rock, small numbers of birds were noted flying past distantly offshore.

### **Storm Petrel** *Hydrobates pelagicus*

A common breeding species

Many birds were heard churring from burrows on Fladda and Lunga. Mist netting on two consecutive nights at the Village and Boulder (Landing) Beach provided a total of 478 birds. An attempt to mist net one night on Fladda was thwarted by an unexpected increase in wind speed, the team having to spend a memorable cool night on Fladda until daybreak allowed their return to Lunga.

### **Gannet** *Sula bassana*

Regularly seen offshore

The passage of birds offshore was noted on only two dates totalling 52 and 9 individuals on the 23<sup>rd</sup> and 26<sup>th</sup> June respectively.

### **Shag** *Phalacrocorax aristotelis*

A common breeding species

Breeding was confirmed on Fladda, Lunga, Sgeir a Chaisteil and Sgeir an Eirionnaich. The breeding population for Lunga and Sgeir a Chaisteil was 308 and 17 pairs respectively, based upon a nest count. When combined, the number counted has increased by 14% from that in 2002, continuing the trend of an overall population increase noted since 1994 (+6.5% p.a., significant trend  $P < 0.01$ ). During the 10-year period the population has doubled at an annual rate of increase above those measured for regions of Scotland and North-east England (Mavor 2002).

At least two breeding pairs were on Sgeir an Eirionnaich with no counts made on Fladda where the breeding population is at a minimum high into double figures.

### **Greylag Goose** *Anser anser*

Breeding noted in some years, with a moulting flock present during late summer

The late summer moult flock in June held at least 101 birds, typically most residing around the

islands of Sgeir an Eirionnaich, Fladda and Sgeir an Fheòir. Extensive areas of vegetation heavily grazed and trampled by geese were located once again on Sgeir an Eirionnaich and at the south end of Lunga where there was a brood of two goslings with 5 adults.

Year	1998	1999	2000	2001	2002	2003
Peak count	25	160	240	268	79	101

**Shelduck** *Tadorna tadorna*

Rare visitor

One pair present on Lunga throughout the week was seen on 28<sup>th</sup> June to led six newly hatched ducklings off the Landing Beach beside Corran Lunga. Within an hour, the brood had apparently been reduced to one duckling, observations suggestive of a boat splitting the family and allowing the young to be albeit briefly vulnerable to gull predation. The only previously documented record of the species by TIARG was of a pair regularly seen in June 1976.

**Eider** *Somateria mollissima*

Regularly breeds in small numbers

A empty lined nest was located on Sgeir a Chaisteil. A poor breeding year is suggested from only 2 broods of single young noted, these at the south end of Lunga and within the north bay of Fladda. The late summer moult flock, typically male bias, centred upon the waters between Fladda and Lunga was notable by its virtual absence. No more than 26 birds were counted. Elsewhere up to three females were noted around the south end of Lunga.

**Buzzard** *Buteo buteo*

Until recently, one pair bred in most years

One pair were raising two young at a nest site on the north-east coast of Lunga as used in previous years. The adults were regularly seen flying between the nest and Sgeir a Chaisteil returning with prey including adult rabbits. When passing the Village, the adults were often seen being mobbed by Oystercatcher and other locally breeding species. Birds were also regularly seen over the south end of Lunga, majority identified as worn moulting adults. On one occasion however a moulting adult was seen to arrive at Tarbet with food to be joined later by what was presumed to be a recently fledged juvenile on account of its very fresh and fringed plumaged and lack of wing moult. Two young were seen on subsequent days in the nest.

**Peregrine** *Falco peregrinus*

Seen most years with breeding known to occur on adjacent coasts

A single bird was noted from the Village, Lunga, stooping down towards the sea off the Boulder Beach on 23<sup>rd</sup> June. Several Peregrine kills of Puffin were noted around Lunga's north end.

**Corncrake** *Crex crex*

Probably a regular breeder in small numbers

A single bird was heard calling briefly on several occasions on the 21<sup>st</sup> June from the traditional site just east of the Village, Lunga. The lack of regular calling as in other years may indicate that the male was pre-occupied with an incubating female (A.Leitch *pers comm.*). A brief search of other areas of Lunga that had in recent years supported calling birds resulted in a null count. A lone calling bird was noted during the night of the 25<sup>th</sup> June on Fladda, typically in the low-lying ground between the North and South Havens.

**Oystercatcher** *Haematopus ostralegus*

Regularly breeds in small numbers

Only 8 breeding pairs were found to be holding territories on Lunga's beaches and rocky outcrops (2 in area 6a, 2 in area 8, 2 at Corran Lunga, 1 in area 4 and 1 at Tarbet west) with no chicks, eggs or nests located though food-carrying adults suggested the presence of chicks at Corran Lunga. Elsewhere territorial pairs were located at Fladda (1 on the south-east beside Common Gull colony), Sgeir a Chaisteil (2 pairs) and a pair present on Sgeir an Eirionnaich. Small flocks of presumed failed breeders were evident on Lunga (area 6a) and Sgeir an Eirionnaich with up to 5 and 13 birds noted respectively.

**Ringed Plover** *Charadrius hiaticula*

One or two pairs breed

One pair had successfully raised to the flying stage two young on the Landing Beach. A second pair was typically on territory at Corran Lunga. Observations suggested at least one pair were attempting to breed on Sgeir a Chaisteil and one pair on Fladda's south-east coast (beside the Common Gull colony). The distribution of these breeding pairs was much as noted in recent years.

**Snipe** *Gallinago gallinago*

Regularly breeds in small numbers

The species was considered to be more abundant on Lunga than observed in recent years. Up to three male birds were noted displaying at one time over the Village at Lunga's north end, possibly involving up four territorial pairs with these apparently centred upon the Landing Beach Well, the area immediately north of the Village, the area to the east of the Village and from the slopes of Cruchacen above the Village. North of Tarbet additional territories were suggested from displaying males over Corran Lunga (1), just north of East Tarbet (1) and between Shag Alley - Shearwater Gully (2). At the south end of Lunga, as many as six birds (individuals?) would be flushed during a visit with one pair centred beside the reedbed. Otherwise only the occasional bird was noted drumming over the south end during the "midday" visits.

During the visit to Fladda on the 25<sup>th</sup> June, at least six birds (individuals?) were flushed when transversing the island's eastern plateau. One bird was flushed from the top of Sgeir a Chaisteil.

**Curlew** *Numenius arquata*

Irregular visitor

Single birds were heard from Lunga's north end on 25<sup>th</sup> and 28<sup>th</sup>, with 2 birds seen later on 28<sup>th</sup> flying low south past Sgeir a Chaisteil.

**Greenshank** *Tringa nebularia*

Rare visitor

A single bird was heard from north of Lunga's Landing Beach on the night of 25<sup>th</sup> June. This is the first documented record of the species by TIARG.

**Common Sandpiper** *Actitis hypoleucos*

One pair occasionally breeds

One bird was daily in attendance alarming and thus suggestive of breeding at the western tip of Lunga's Landing Beach. Further alarming individuals were suggestive of the presence of one breeding pair at Fladda (south-east coast) and Sgeir an Eirionnaich.

**Arctic Skua** *Stercorarius parasiticus*

Small numbers seen daily presumably from the breeding colony on Coll

Up to 5 birds seen on 4 dates, generally offshore from the Harp Rock - Sgeir a Chaisteil coast of Lunga pirating incoming auks and Kittiwakes. Both light and dark phase birds were observed.

**Great Skua** *Stercorarius skua*

A regular and increasing breeding population following one pair holding territory in 1996 where breeding was confirmed in 1998.

For the second consecutive year breeding was confirmed on high ground south of the Tarbet (area 6), a pair incubating one egg in a nest close to that used in 2002.

Successful breeding by single pairs on both the west and east coast of Fladda was also confirmed with nests within territories used in previous years. Both pairs were rearing single chicks with an unhatched egg in the west Fladda nest, the chick days old with an egg tooth. One pair of birds were seen to flying through the west Fladda territory and on northwards.

Up to three birds were regularly noted along Lunga's west and north coasts.

**Black-headed Gull** *Larus ridibundus*

A rare visitor

The first documented records of the species by TIARG were of two birds on 23<sup>rd</sup> June over Tarbet and the Village on Lunga, followed by a single at Sgeir a Chaisteil on 26<sup>th</sup>.



**Common Gull *Larus canus***

Irregular breeding species in small numbers

Breeding was once again confirmed on the south-east of Fladda, the colony having expanded on previous years to an estimated 11 pairs (22 adults noted on site); 6 chicks were ringed. Breeding was confirmed on Sgeir an Eirionnaich for the first time since 1986 where a single pair was again found, on this occasion incubating 2 eggs. Between 1 - 3 birds were occasionally seen or heard from the north end of Lunga and in area 8 alarming with the local Herring Gull colony. Breeding was not however suspected at the latter locality.

**Lesser Black-backed Gull *Larus fuscus***

Regularly breeding species in small numbers

Breeding was suspected on Lunga (area 8) with 1 pair plus a subadult within the west coast Herring Gull colony. Since the start of annual seabird censuses of Lunga and Sgeir a Chaisteil in 1994, the species breeding population has fluctuated between 1 and 9 pairs with no significant trend (1994-2003). Elsewhere single pairs were present in the gulleries on Cairn na Burgh Beg and the north end of Fladda. No counts were available from Sgeir an Fheòir if the species was indeed present in the gullery there.

**Herring Gull *Larus argentatus***

A common breeding species

Breeding was confirmed on Lunga (25 pairs), Sgeir a Chaisteil (12 pairs), Sgeir an Eirionnaich (2 pairs), Fladda (5+ pairs), Sgeir na h-lolaire (12 pairs), Cairn na Burgh Beg (no count), Cairn na Burg More (no count). No birds were occupying territories on Sgeirean na Guisach or Sgier an Fheòir. The low total count for Lunga and Sgeir a Chaisteil, is comparable to that of 1999 (34 pairs), when during the period 1994-2003 counts have been between 63-97 pairs with no significant trend evident.

**Great Black-backed Gull *Larus marinus***

A regular breeding species

Breeding was confirmed on Fladda (17+ pairs, most in north-east gullery), Lunga (34 pairs), Sgeir a Chaisteil (3 pairs). Scanned from adjacent land or a boat, breeding was also considered to have occurred on Sgeir an Eirionnaich (38 pairs), Sgeirean na Guisach (north 2 pairs, south 0 pairs), Sgeir na h-lolaire (1 pair) and Sgier an Fheòir (3 pairs) amongst those islands between Fladda and Lunga. For the second consecutive year breeding numbers on Lunga and Sgeir a Chaisteil have declined by around 25% though numbers still remaining within the range of the widely fluctuating population for the period 1994-2003 (37-67 pairs, no significant trend).

**Kittiwake *Rissa tridactyla***

A localised breeding species

Breeding was only confirmed on Lunga where the main colony is situated around Harp Rock. The numbers of apparently occupied nests on Lunga totalled 880, a 11% decline from 2002 following a highly significant trend of increase between 1998-2002 at an average 10.7% p.a. ( $P < 0.01$ ). Previous to this, the population in the mid 1990s had been stable at c.725 pairs (1994-1997).

Typically a flock of up to 300 adults and including the occasional 1<sup>st</sup> summer bird, were noted daily on rocks between Lunga and Sgeir a Chaisteil.

**Common Tern *Sterna hirundo***

Irregular breeding species

A ternary was present for the third consecutive year on Sgeir an Eirionnaich where 40 nest were counted with the majority of nests (no count) however on the adjacent islet. An estimated 3-400 birds took flight from the ternary with the passage of TIARG on their arrival to the islands on 21<sup>st</sup> June. Several days later on 26<sup>th</sup> June, estimates of numbers ranged between 4-800 birds when the colony took flight in response to human intruders and later a Great Black-backed Gull predated an egg/chick. A photo of the colony in flight provided a count of 506 birds with an additional 150 birds estimated by the photographer to be out with the picture.

At least two "portlandica" (1<sup>st</sup> summer) birds were noted associating with the colony on 26<sup>th</sup> & 28<sup>th</sup> June.

**Arctic Tern** *Sterna paradisaea*

Irregular breeding species

Very small numbers of the species (less than 5%) were noted within the Common Tern *Sterna hirundo* colony during a visit to the ternary on 26<sup>th</sup> June.

**Sandwich Tern** *Sterna sandvicensis*

A rare visitor

A single bird was present off the Landing Beach on 28<sup>th</sup> June. This is the first documented record of the species by TIARG.

**Guillemot** *Uria aalge*

Common breeding species

Breeding was confirmed on Lunga, Fladda and Sgeir a Chaisteil, the main concentration typically located within the vicinity of Harp Rock with 7050 adult birds estimated.

The numbers of individuals counted on Lunga and Sgeir a Chaisteil totalled 7316, a 0.3% decline from 2002. The average annual rate of change for this population is calculated at 2.8% p.a. for the period 1994-2003, the trend not significant.

**Razorbill** *Alca torda*

Common breeding species

Breeding was confirmed on Lunga and Sgeir a Chaisteil. Birds were also seen at suitable breeding sites on Cairn na Burg Beg (8 birds) and Fladda.

The numbers of individuals counted on Lunga and Sgeir a Chaisteil totalled 1247, a 10% increase from 2002. The average annual rate of change for this population is calculated at 4.9% p.a. over the period 1994-2003, the trend not significant. Within this decade however was a significant period of increase (+24% p.a. 1994-1998) to a count of over 14,000 individuals followed by counts fluctuating between 950 and 1200 birds thereafter (1999-2003; no significant trend).

**Black Guillemot** *Cephus grylle*

Regular breeding species in small numbers

Adult birds were seen around Fladda (7 birds) Sgeir an Eirionnaich - Sgeir an Fheòir sea area (25). Carn na Burg More (2), Sgeir a Chaisteil (2) and Lunga's south end (7). Two birds sitting offshore with fish suggested breeding on Sgeir a Chaisteil.

**Puffin** *Fratercula arctica*

Common breeding species

Breeding adults were occupying burrows on Lunga and Sgeir a Chaisteil. Birds were also seen at suitable breeding sites at Fladda where over 100 birds were gathered in South Haven on the evening of the 25<sup>th</sup> June.

A 49% reduction in breeding numbers is suggested from the census data for Lunga and Sgeir a Chaisteil. The species is difficult to census accurately, especially when other burrowing species are present in the vicinity of the colonies as is the case i.e. Rabbits and Manx Shearwaters. However evidence of a marked decline in breeding Puffin numbers is supported when just considering those sectors (11, 12 & 12a) where over 70% of birds breed and, importantly for consistency and reliability, have been counted by the same single observer each year. Along these sections of cliff, counts of apparently occupied burrows have declined by 43% (range of 37- 54%) from those counted in 2002. Whether this is a local phenomena or one shared more widely between seabird colonies in northern European waters has yet to be ascertained. Previous to the 2003 count of 1006 estimated breeding pairs for Lunga and Sgeir a Chaisteil, the mean for the past 9 years had been at 1801 pairs (range 1684 - 2544, n=9).

**Rock Dove** *Columba livia*

Regular breeding species in very small numbers

Three birds were noted at the south end of Lunga in the gully between count sectors 5 and 6a. On the same day, single birds were also noted from Shearwater Gully and Tarbet where also 2 birds were two days later. Elsewhere, a single bird was seen from Sgeir an Eirionnaich on 26<sup>th</sup> June. No evidence of breeding was found.

**Swift** *Apus apus*

Irregular visitor

Two birds over the summit of Cruachan, Lunga on the 22<sup>nd</sup> June were followed on the evening of the 25<sup>th</sup> by an unprecedented 11 over South Haven, Fladda.

**Skylark** *Alauda arvensis*

Regular breeding species in small numbers

The sole record refers to a single bird singing daily from over the north slope of Cruachan immediately above the Village. No birds were noted during an evening visit to Fladda. This is the lowest record breeding population for Lunga, this perhaps a consequence of the change in vegetation structure in response to a lack of grazing on Lunga in recent years.

**Swallow** *Hirundo rutisco*

An irregular visitor

Single birds were either heard or seen over Corran Lunga, Sgeir an Eirionnaich and Cruachan on three individual dates.

**Meadow Pipit** *Anthus pratensis*

Regular breeding species in small numbers

Widespread breeding species on Lunga and Fladda with no estimation of territories made though probably less numerous than Rock Pipit *Anthus petrosus*.

**Rock Pipit** *Anthus petrosus*

Regular breeding species in small numbers

Common breeding species along the coast of Lunga with birds also noted on Fladda, Sgeir an Eirionnaich and Sgeir a Chaisteil.

**Pied Wagtail** *Motacilla alba yarrelli*

Irregular breeding species

At least one pair is suggested to have bred on Lunga with an adult and dependant juvenile at Corran Lunga. Elsewhere on Lunga, 1-2 adults were noted around Tarbet, Harp Rock and Village. Single birds were noted during visits to Fladda, Sgeir an Eirionnaich and Sgeir a Chaisteil.

**Wren** *Troglodytes troglodytes*

Regular breeding species, quite common where habitat suitable.

As in previous years, the vast majority of records of the species were confined to the northern half of Lunga, predominately amongst the boulder scree and bracken covered slopes from Cruachan down to the sea and on Corran Lunga. However, all count sectors of Lunga had a minimum of one singing male, many several. A single nest was found at the south end of Lunga (area 5) whilst fledged broods were noted at Tarbet (2+ young) and around the Landing Beach Well. Birds were also noted during a visit to Fladda.

**Wheatear** *Oenanthe oenanthe*

Regular breeding species in small numbers

A minimum of five families of dependant and presumed locally bred young were noted on Lunga around Cruachan summit, Shag Alley, north of Tarbet, Corran Lunga and Shearwater Gully. Adults were also taking food to a nest in the slope above the Village.

Elsewhere birds were noted on Fladda and a brood on Sgeir an Eirionnaich during a brief visit on 26<sup>th</sup> June.

**Blackbird** *Turdus merula*

Irregular visitor

A single male at the Village, Lunga, on 23<sup>rd</sup> June was the first record by TIARG since the late 1970s.

**Hooded Crow** *Corvus corone cornix*

Regular breeding species in small numbers

The species was noted daily on Lunga, predominately in those areas from Cruachan summit southwards involving both moulting adults and non-moulting juveniles. A minimum of 4 birds were involved that included one pairs of adults and two juveniles suggesting at least one pair may have

successfully bred on the island. No nest site was found. At least two birds were seen during the evening visit to Fladda on 25<sup>th</sup> June.

**Raven** *Corvus corax*

At least one pair breeds in most years

A family party of two moulting adults and four juveniles were in residence on Lunga joined briefly by a fifth non-moulting bird, presumed juvenile, on 25<sup>th</sup> June. Five birds could be seen on Fladda on 24<sup>th</sup> June, with none seen during the evening visit of the 25<sup>th</sup> followed by two at South Haven on 28<sup>th</sup>. No nest sites were located.

**Starling** *Sturnus vulgaris*

Regular breeding species in small numbers

As the week progressed, the flocks reported around Lunga typically increased in size from 12 on 22<sup>nd</sup> June to one of 40 birds at the south end on 26<sup>th</sup> June. The flocks were comprised of both adults and juveniles, the island's population peaking at the week's end at an estimated 60-100 birds. 3 nests with young were located in cliffs at Lunga's south end. Elsewhere birds were seen on Fladda and a flock of 20 at Sgeir an Eirionnaich during a brief visit on 26<sup>th</sup> June.

**Twite** *Carduelis flavirostris*

Regular breeding species in small numbers

Up to five birds, including 1+ juvenile, were regularly seen with in the vicinity of the Village at north-east Lunga and Shearwater Gully. Elsewhere 1-2 birds were regularly recorded between the Village and Harp Rock but none at Lunga's south end.

Elsewhere birds were noted on both "halves" of Fladda during the evening visit of the 25<sup>th</sup> June.

### SYSTEMATIC LIST OF MAMMALS FOR 2003

**Otter** *Lutra lutra*

Evidence of presence regularly noted

There was one possible sighting of an animal swimming through the channel between Lunga and Sgeir a Chaisteil on the early afternoon of the 28<sup>th</sup> June.

**House Mouse** *Mus musculus*

Resident

Unusually, no animals were detected at the expedition base, the Village, at the north end of Lunga.

**Pygmy Shrew** *Sorex minutus*

Status unknown

One Shrew spp. seen on Fladda near the Gullery in the north-east, was considered probably to be *S.minutus*.

**Rabbit** *Oryctolagus cuniculus*

Resident, numbers much reduced in recent years.

Though no systematic monitoring of this species occurred, casual observations on Lunga continued to suggest fewer visible animals to than noted in the years immediately prior to 2002. All sightings of black individuals were of singles noted in the northern half of Lunga.

No animals were seen during brief visits to Fladda.

**Grey Seal** *Halichoerus grypus*

Regular breeding species

Up to 67 animals regularly hauled out on intertidal reefs north and north-east of Lunga. A single animal was also noted off the South end of Lunga.

**Bottlenose Dolphin** *Tursiops truncatus*

Resident in Hebridean Waters

3 animals accompanied a boat arriving from the Coll/Tiree direction into the shallows off the Landing Beach, Lunga, on 25<sup>th</sup> June. For over half an hour the Dolphins followed, intercepted and

bow rode with three boats in the area between Lunga and Sgeir an Eirionnaich, one boat in particular spending much time encouraging them to do so much to the day visitors delight, and ours! These are the first record of Bottlenose Dolphin and fourth Cetecean species to be recorded by TIARG from the Treshnish Isles.

### SYSTEMATIC LIST OF BUTTERFLIES FOR 2003

**Common Blue** *Polyommatus icarus*

Regularly breeder

Up to 7 individuals on four dates were noted from around Lunga, typically most (up to 5) at Tarbet and immediately north of. Elsewhere 2 and 3 individuals were noted on Sgeir an Eirionnaich and Sgeir a Chaisteil respectively.

**Green-veined White** *Pieris napi*

Migrant

One individual was seen at Tarbet on 24<sup>th</sup> June.

**Red Admiral** *Vanessa atalanta*

Migrant

Single butterflies were seen at the Village, Lunga and Sgeir an Eirionnaich on single dates.

**Painted Lady** *Cynthia cardui*

Regularly migrant

A good year with up to 12 individuals recorded daily on Lunga. Elsewhere 1, 2 and 4 individuals were noted on Fladda, Sgeir an Eirionnaich and Sgeir a Chaisteil respectively.

### OTHER SPECIES RECORDED SYSTEMATICALLY

**Brown Hawker** *Aeshna grandis*

Migrant

One individual was watched for a minute, at one point hawking a fly, by all expeditions members when the north end of Lunga on 25<sup>th</sup> June. This record represents only the second for Scotland but the first for over 100 years. Winds on the 25<sup>th</sup> and the previous two days were from the southwest, ideal conditions perhaps to bring migrants from Ireland. 2003 was an outstanding year for Odonota species from south of the Border being seen in Scotland for the first time (Betty Smith *pers comm*; Regional Recorder for Scotland).

**Silver Y Moth** *Autographa gamma*

Migrant

One individual at Tarbet on 26<sup>th</sup> June.

**The Magpie** *Abraxas grossulariata*

Probable resident

Single moths were seen at the Village, Lunga and to the east of, and on Fladda.

**Map-winged Swift** *Hepialus fusconebulosa*

Status unknown

A moth photographed at the Village, Lunga, was later identified as this species.

**Popular Grey** *Acronicta megacephala*

Status unknown

A moth photographed at the Village, Lunga, was later identified as this species.

**Oyster Plant** *Mertensia maritima*

Resident species known only from "colonies" at Tarbet (west), Lunga and the north end of Sgeir a Chaisteil.

Over 145 plants were identified on the beach at Tarbet (west), Lunga, with much spreading of many well-established plants making separation of individuals very difficult. Though still present, no

count was made of the plants at the north end of Sgeir a Chaisteil. A newly established colony of a “few first year plants” was discovered on the Sgeir a Chaisteil beach facing Corran Lunga.

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Harrison, P. 1985. *Seabirds: An identification guide*. Croom Helm, London.

Mavor, R.A., Pickerell, G., Heubeck, M. & Mitchell, P.I. 2002. *Seabird numbers and breeding success in Britain and Ireland, 2001*. Joint Nature Conservation Committee, Peterborough. (UK Nature Conservation No. 26.)

Walker, S. & Cooper, D. 1996. *Birds on the Treshnish Isles*. TIARG.

**2003 BREEDING SEABIRD CENSUS DATA FOR LUNGA AND SGEIR A CHAISTEIL**

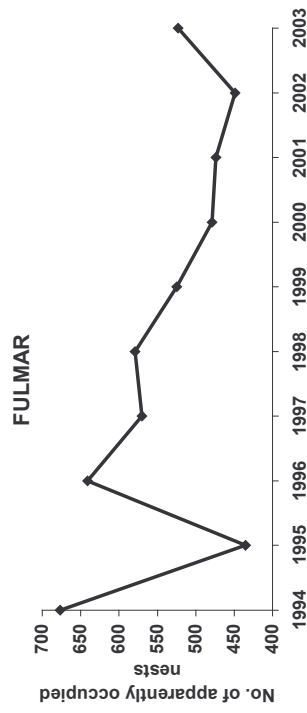
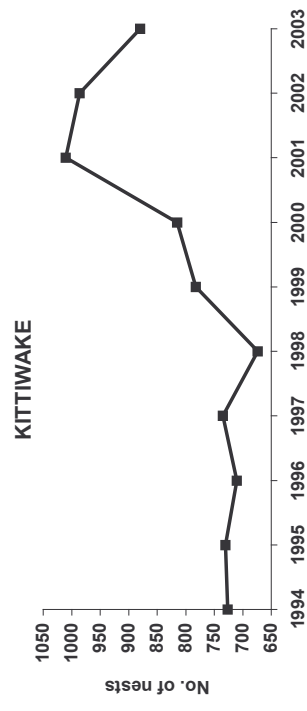
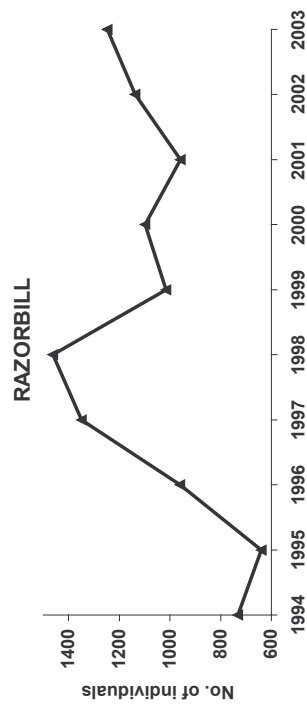
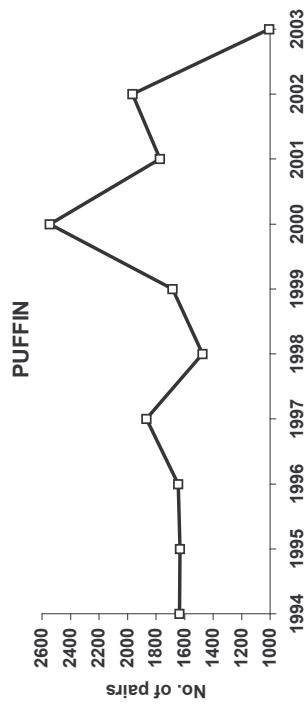
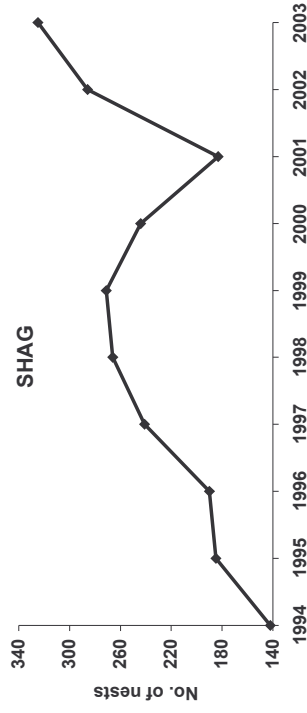
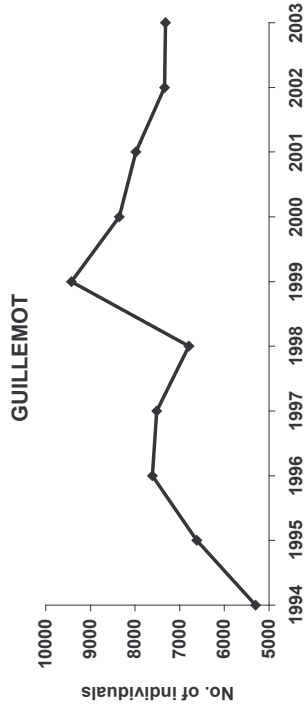
**Totals for each Sub Colony Zones of Lunga and Sgeir a Chaisteil**

Sector	Count unit	Count Sectors on Lunga (1 - 12) and Sgeir a Chaisteil (13)													Lunga & Chaisteil Totals		
		1	2	3	4	5	6	6a	7	8	9	10	11	12		12a	13
Fullmar	AON		55	4	25	57		52		37	23	27	39	127	12	65	523
Shag	AON		35	56	9	46				32	1	41	19	65	4	17	325
Lesser B-b Gull	PRS									1							1
Herring Gull	PRS	1	1							21			1	1		12	37
Great B-b Gull	PRS	2			1	1	23		6			1				3	37
Kittiwake	AON											14	816	37	13		880
Bonxie	AON						1										1
Razorbill	IND		85	47	16	115		50		37	1	26	710	134	24	1247	
Guillemot	IND					11						230	7050		25		7316
Black Guillemot	PRS							8									8
Puffin	IND		70	99	2	30				2		93					296
Puffin	AOB						1					240	204	342	71		858

**Key to count unit codes:**

- AON = Apparently occupied nest
- IND = individuals
- PRS = pairs
- AOB = Apparently occupied burrow

POPULATION CHANGES IN A SELECTION OF BREEDING SPECIES ON LUNGA AND SGEIR A CHAISTEIL, 1994 – 2003





**TRESHNISH RINGING TOTALS FOR 2003**

Site	Species	Adults	Pulli	Retraps	Controls	Total
Fladda	Common Gull		6			6
	Great Skua		1			1
Lunga	Fulmar	25		3		28
	Manx Shearwater	2				2
	Storm Petrel	360		93	25	478
	Shag	14	85	7		106
	Herring Gull		8			8
	Kittiwake	2				2
	Guillemot	261		61		322
	Razorbill	46	10	9		65
	Puffin	244		27	2	273
	Meadow Pipit	1				1
	Rock Pipit	2				2
	Wheatear	2				2
Sgeir an Eirionnaich	Great Black-backed Gull		21			21
Treshnish Isles	Grand total for 2002	959	131	200	27	1317

Note: Rings used in 2003 were registered under *Treshnish Auk Ringing Group, Hardman, Juckes & Cooper, and Robin Ward.*

Retraps: No retraps of birds ringed earlier during the 2003 expedition are included.

**AN ASSESSMENT OF TIARG'S CONTRIBUTION TO THE BRITISH AND IRISH RINGING SCHEME.**

Since 1971, the Treshnish Isles Auk Ringing Group (TIARG) has ringed over 25,000 seabirds between the years 1971 - 2003, a substantial proportion of the national ringing total for some species and years. Tabulated below is TIARG's contribution to the National Ringing totals in 2001 (Clark et al 2002)\*.

	Juv/ad ringed 2001			Pulli ringed 2001			Ringing Totals to & incl 2001		
	UK & Eire	TIARG	% UK & Eire	UK & Eire	TIARG	% UK & Eire	UK & Eire	TIARG	% UK & Eire
Fulmar	558	25	4.5	830	0	0	106,774	291	0.3
Manx Shearwater	2,278	0	0	448	0	0	297,946	53	0.02
Storm Petrel	9,261	1030	11.7	37	0	0	385,982	8752	2.3
Shag	373	3	0.8	4,732	34	0.7	196,905	1151	0.6
Common Gull	135	0	0	2,233	11	0.5	78,145	20	0.03
Herring Gull	477	0	0	3,966	8	0.2	297,478	407	0.1
Great black-backed Gull	15	0	0	2,233	27	1.2	67,926	292	0.4
Kittiwake	630	11	1.8	1,671	0	0	121,439	166	0.1
Guillemot	2,508	312	12.4	10,257	0	0	270,239	5313	2.0
Razorbill	427	31	7.3	2,081	0	0	96,700	2143	2.2
Puffin	8,310	214	2.6	503	0	0	222,228	4417	2.0

\* 2001 is the most recent British & Irish annual ringing totals available at the time of publication.

### TRESHNISH RINGING TOTALS 1971 - 2003

SPECIES	1971	1974	1976	1977	1978	1980	1982	1984	1986	1989	1991	1993
Fulmar	17	6	4		8	21	14	18	7	21	15	
Manx Shearwater		2	13		4	4	1	8				
Storm Petrel		254	22		1	283		203	800	411	975	75
Shag	150	7	10	10	24	80	50	160		40	10	
Buzzard						1	2					
Oystercatcher		1				1	4	2				
Common Sandpiper												
Great Skua												
Common Gull												
Herring Gull	6	1			14	46	35	56	4	4	3	
Great Black-backed Gull	3	6	3	7	6	22	14	35		22	15	
Kittiwake						1	1	1	2	2	4	
Guillemot	32	20	14		66	502	137	364	180	250	306	
Razorbill	65	72	90		115	266	218	236	151	103	64	
Black Guillemot												
Puffin	70	198	271		203	200	208	182	174	160	114	
Meadow Pipit												
Rock Pipit									5	1		
Pied Wagtail												
Wren												
Wheatear			12					1	3			
Willow Warbler												
Twite												
<b>TOTAL</b>	<b>343</b>	<b>558</b>	<b>439</b>	<b>17</b>	<b>441</b>	<b>1427</b>	<b>684</b>	<b>1266</b>	<b>1326</b>	<b>1014</b>	<b>1506</b>	<b>75</b>

SPECIES	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
Fulmar	4	27	38	7	24	23	12	25	22	25	338
Manx Shearwater	9	1		2	1	4	4			2	55
Storm Petrel	440	536	331	1104	741	732	814	1030	15	360	9127
Shag	10	59	96	99	150	100	59	37	97	99	1347
Buzzard											3
Oystercatcher						2		1			11
Common Sandpiper					1						1
Great Skua					1				1	1	4
Black-headed Gull											
Common Gull					4		5	11	11	6	37
Herring Gull	5	24	19	52	73	39	15	11	11	8	426
Great Black-b. Gull	6	25	16	48	19	16	2	27	5	21	318
Kittiwake	6	10	1	50	41	23	13	11	3	2	171
Guillemot	109	498	349	472	503	507	892	312	425	261	5999
Razorbill	81	101	105	98	112	102	133	31	110	56	2309
Black Guillemot				1				1			2
Puffin	358	236	301	267	398	274	389	214	351	244	5012
Meadow Pipit		4		1			12	1	4	1	23
Rock Pipit		2	4	2		2	1	2	2	2	23
Pied Wagtail	1	3	2								6
Wren		3						1			4
Wheatear			5	24	37	22	50	24	2	2	182
Willow Warbler		1									1
Twite				2					1		3
<b>TOTAL</b>	<b>1029</b>	<b>1530</b>	<b>1230</b>	<b>2130</b>	<b>2109</b>	<b>1844</b>	<b>2401</b>	<b>1739</b>	<b>1060</b>	<b>1090</b>	<b>25402</b>

**NOTES:**

- Data for 1971 - 1995 extracted from Walker & Cooper (1996).
- Ringing data for a three day visit in 1972 was not available.
- In 2003 wind speed and in particular direction was unfavourable for the fleaying the large numbers of auks usually ringed at Harp Rock. Likewise wind was a factor in the reduced Storm Petrel catch.

## RECENT RINGING RECOVERIES

Abbreviations used:

Age                    1 - Pullus  
                           4 - Hatched before this calendar year, exact year unknown  
                           6 - Hatched before previous calendar year, exact year unknown  
                           8 - Hatched more than two calendar years before year of ringing

Manner of recovery

R - Caught and released by a ringer  
 X - Found dead  
 XF - Found freshly dead or dying  
 XL - Found long dead  
 SR - Sick or injured, released with ring  
 VV - alive and probably healthy, ring read in field by non-ringer  
 // - condition on finding wholly unknown

All ringing recoveries relating to the Treshnish Isles received since the previous TIARG report are listed below.

**Guillemot**

R07096	4	24/6/2000	Lunga			
	XL	15/7/2002	Isle Of Staffa, Strathcylde	8km	137 degs	751 days

Remarks: Only leg and ring found

**Guillemot**

R19875	4	27/6/2000	Lunga			
	R	11/6/2002	Isle Of Colonsay	46km	164 degs	714 days

**Guillemot**

R24353	6	23/6/2002	Lunga			
	X	24/1/2003	La Couarde-Sur-Mer Lie De Re, Charente-Maritime, France	1194km	163 degs	215 days

Remarks: Found dead on beach

**Guillemot**

T82144	4	28/6/1991	Lunga			
	XF	11/2/2002	Sainte-Marie-De-Re, Cahrente-Maritime, France	1202km	163 degs	3881 days

Remarks: Dead, oil victim

**Guillemot**

X33908	1	3/7/1996	Isle Of Canna, Highland Region			
	R	24/6/2002	Lunga	63km	174 degs	2182 days



**Puffin**  
 ES64189            8    30/6/1994    Lunga  
                       F    12/1/2003    Carballo, Coruna, Spain  
                                          1483km        186 degs     3118 days

Remarks: Dead, oil victim (Prestige oil spill)

**Puffin**  
 ET80144            8    3/7/1998    Lunga  
                       S    7/12/2002    Vicedo, Lugo, Spain  
                                          1419km        184 degs     1618 days

Remarks: Sick or injured: fate unknown: oil victim (Prestige oil spill)

**Razorbill**  
 M85762            4    24/6/2000    Lunga  
                       X    18/2/2003    Portencross, West Kilbride, Strathclyde  
                                          129km        133 degs     969 days

Remarks: Dead, on shore

**Shag**  
 1366952            6    21/6/1999    Lunga  
                       X    19/7/2002    Triagh Hough, Tiree,  
                                          34km            273 degs     1124 days

Remarks: Dead, bird found on beach

**Storm Petrel**  
 2238560            4    2/7/1998    Fladda  
                       R    25/7/2002    Calf Of Man, Isle Of Man  
                                          290km        160 degs     1484 days

**Storm Petrel**  
 2554132            6    27/6/2001    Fladda  
                       R    29/6/2002    Beigins, Nr Sleah Head, Kerry, Eire  
                                          557km        209 degs     367 days

**Storm Petrel**  
 2542868            6    25/6/2001    Lunga  
                       R    18/7/2002    Langness, Isle of Man  
                                          292 km        157 degs     388 days

## REFERENCES

Clark, J.A., Balmer, D.E., Adams, S.Y., Grantham, M.J., Blackburn, J.R., Robertson, R.A., Wernham, C.V., Griffin, B.M. & Milne, L.J. 2002. Bird Ringing in Britain and Ireland in 2001. *Ringing & Migration* 21: 25 - 61.

Mavor, R.A., Pickerell, G., Heubeck, M. & Mitchell, P.I. 2002. *Seabird numbers and breeding success in Britain and Ireland, 2001*. Joint Nature Conservation Committee, Peterborough. (UK Nature Conservation No. 26.)

## THE EXPEDITIONS 1971 – 2003

A list of participants through the years, with brief notes on the work performed

- 1971** Barry Lawson, Peter Deans, John Eatough, Shiela Anderson, Dick Hansford.  
Full census and ringing.  
*This was the first trip and the Treshnish Isles were included in a “mopping up” of islands not fully covered during the 1969/70 “Operation Seafarer” National Seabird Census.*
- 1972** Barry Lawson, Geoff Ward, Bevan Craddock.  
Part census and ringing  
*Forced to leave after three days due to bad weather.*
- 1973** Barry Lawson, Peter Deans, John Hodson, Geoff Cope.  
*Trip abandoned – unable to land due to rough seas*
- 1974** Barry Lawson, Peter Deans, Geoff Ward, John Hodson, Geoff Cope, Tom Pool.  
Census of Lunga and ringing  
An RAF Helicopter landed a photographer onto Harp Rock, causing many bird casualties.
- 1976** Barry Lawson, Peter Deans, Geoff Ward, John Hodson, Geoff Cope, Tony Kilgallen.  
Full census Lunga – Fladda and ringing.  
*Very hot summer.*
- 1977** Barry Lawson, John Hodson.  
Ringing only.  
*Called in on “Corrywreckan” boat cruise.*
- 1978** Barry Lawson, Peter Deans, John Hodson, Simon Walker.  
Full census Lunga and Chaisteil and ringing.
- 1980** Barry Lawson, Peter Deans, John Hodson, Simon Walker, David Lawson.  
Ringing only
- 1981** Geoff Ward, Geoff Cope.  
Part census and photography
- 1982** Barry Lawson, Peter Deans, John Hodson, Simon Walker, Andrew Lawson.  
Ringing only.
- 1984** Barry Lawson, Peter Deans, John Hodson, Simon Walker.  
Ringing only.
- 1986** Barry Lawson, Peter Deans, Geoff Ward, John Hodson, Simon Walker, Andrew Lawson.  
Full census with ringing
- 1989** Barry Lawson, Peter Deans, John Hodson, Simon Walker.  
Ringing only.
- 1991** Barry Lawson, Peter Deans, Simon Walker, David & Andrew Lawson, Jan Densham.  
Ringing only.
- 1993** Roger Broad *et al.* (Scottish Natural Heritage charter)  
Full census of The Dutchman’s, Lunga, Chaisteil and Fladda.  
Chris Redfern *et al.*  
Storm Petrel ringing.

## THE EXPEDITIONS 1971 – 2003 (con't)

- 1994** Simon Walker, Mike Smith, Dennis Cooper, Jan Densham, Danny Lenain.  
Full census Lunga and Chaisteil and ringing.
- 1995** Simon Walker, Mike Smith, Dennis Cooper, Jan Densham, Fergus Henderson.  
Full census Lunga and Chaisteil and ringing.
- 1996** Simon Walker, Mike Smith, Dennis Cooper, Danny Lenain, Robin Ward  
Full census of Lunga and Chaisteil and ringing.
- 1997** Simon Walker, Dennis Cooper, Robin Ward, Damian Offer, Steve Willis, Chris Spray  
Full census of Lunga – Fladda and ringing.
- 1998** Simon Walker, John Hodson, Dennis Cooper, Robin Ward, Damian Offer, Steve  
Willis, Steve Worwood  
Full census of Lunga – Fladda and ringing.
- 1999**  
Week 1 Simon Walker, Dennis Cooper, Steve Willis, John Osbourne.  
Week 2 Simon Walker, John Hodson, Dennis Cooper, Robin Ward, Damian Offer, Jan  
Densham  
Full census of the Treshnish Isles for *Seabird 2000* and ringing
- 2000**  
Week 1 John Hodson, Dennis Cooper, Damian Offer  
Full census of Manx Shearwater on Lunga for *Seabird 2000*. Limited passerine ringing.  
Week 2 Simon Walker, John Hodson, Dennis Cooper, Robin Ward, Steve Willis, Andrew  
Carter, Steve Woodward  
Full census of Lunga, Chaisteil and the islands between Lunga – Fladda. Tern census for  
*Seabird 2000*. Ringing.
- 2001** Simon Walker, John Hodson, Dennis Cooper, Robin Ward, Damian Offer, Andrew  
Carter  
Completion of census for *Seabird 2000*. Full census of Lunga, Chaisteil and the islands  
between Lunga – Fladda. Ringing.
- 2002** Simon Walker, Robin Ward, Andrew Carter, Phil Bone, Sara Brown, Jackie Hay.  
Full census of Lunga, Chaisteil and the islands between Lunga – Fladda. Ringing.
- 2003** Simon Walker, John Hodson, Dennis Cooper, Robin Ward, Andrew Carter, Jackie  
Hay, Matt Smith.  
Full census of Lunga, Chaisteil and the islands between Lunga – Fladda. Ringing.

## RINGS USED ON THE TRESHNISH ISLES SINCE 1927

SHAG RINGS	A2 RINGS	E RINGS	F RINGS	G RINGS	H RINGS	RAZORBILL RINGS	GUILLEMOTS RINGS	MISC. RINGS
1080101 - 110	2010581 - 583	EF75001 - 500	FC52551 - 558	GH21301 - 350	HT09001 - 004	M46501 - 750	T14001 - 500	1F4094 - 097
1087111 - 120	2101991 - 2000	EG23501 - 700	FC52571	GJ35401 - 500	HT17871 - 890	M55001 - 500	T14501 - 15000	C331894 - 900
1105561 - 570	2121401 - 500	EG23721 - 780	FR13606 - 636	GJ76001 - 800	HT17931 - 940	M72451 - 800	T82001 - 300	E196501 - 520
1123541 - 550	2167051 - 068	EG23801 - 999	FR14401 - 500	GJ99081 - 082	HT34021 - 030	M85501 - 800	X39501 - 40000	JB44316 ('94)
1123671 - 690	2170201 - 203	EG61000 - 500	FR56351 - 400	GK34351 - 354	HT68201 - 210	M88001 - 300	X56501 - 57000	K039209 - 230
1123961 - 970	2238501 - 600	EG88501 - 807	FS51016 - 500	GK50214 - 220	HT68221 - 226	M92501 - 700	X63001 - 500	K419290 - 295
1159651 - 700	2261001 - 500	EH33377 - 380	FS87001 - 100	GK50551 - 570	HT80301 - 400	X67501 - 68000	NA84296 - 299	
1163701 - 740	2284001 - 5000	EH54501 - 55000	FV10611 - 620	GK62985 - 990	HW05351 - 360	X79501 - 80000	KX83101 - 106	
1168001 - 100	2309901 - 10000	EH89256	FV10646 - 650	GK90821 - 840	HW06951 - 7000	X99001 - 500	KX83116 - 118	
1170601 - 700	2311301 - 400	EH89260	FV54446 - 460	GK91471 - 490	HW08994 - 09000	R07001 - 100		
1187901 - 950	2311501 - 2000	EH98001 - 300	FV62410	GP13416 - 450	HW37361	R19401 - 20200		
1237401 - 450	2348001 - 500	EK29501 - 900	FV62416 - 226	GP62201 - 207	HW68101 - 110			
1322951 - 960	2369301 - 400	EK72657 - 660	FV96681 - 684	GP74501 - 75000	HW68161 - 170			
1328481 - 490	2405001 - 6000	EK91471 - 490	SS96101 - 300		HW74971 - 990			
1350801 - 900	2430701 - 900	EN22001 - 500			HW87211 - 225			
1357901 - 8000	2436501 - 7000	EP85608 - 612			HW94907 - 913			
1366901 - 7000	2444501 - 5000	EP85687 - 700						
1373751 - 3809	2446201 - 300	ER03701 - 800						
1399601 - 700	2455501 - 6000	ES64018 - 189						
	2480001 - 500	ET19501 - 700						
	2513501 - 4000	ET52501 - 3000						
	2538001 - 800	ET80001 - 500						
	2542001 - 3000							
	2554001 - 500							
	2560019 - 380							