

# **Assessment of the Importance of Winter Waterfowl/Wader Populations on Isles of Scilly**

**Leigh Lock**

**RSPB South West England Office  
Keble House, Southernhay Gardens, Exeter, Devon, EX1 1NT**

**August 1999**

***Ref: I4***

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## Summary

- Following the National Winter Shorebird Count in 1984/85, when internationally important numbers of turnstone and nationally important numbers of sanderling and ringed plover were recorded, there was no further survey of winter waders/wildfowl until 1995/96.
- This report summarises counts from winter 1997/98, part of the national NEWS, and combines with data from co-ordinated counts made by RSPB/IoSET in winter 1995/96 and 1996/97, and other available data to assess the importance of the Isles of Scilly for wintering waders/wildfowl.
- No species were found in internationally important numbers.
- The Isles of Scilly are nationally important for sanderling and, given the likelihood of a reduced national population estimate at the next review, possibly for ringed plover. Populations of turnstone and purple sandpiper fall just below nationally important numbers.
- Nationally important criteria are also met for wintering lesser black-backed gull and greater black-backed gull, and the islands support a significant percentage of the small population of greenshank and little egret.
- The RSPB recommends that, given this importance, site designations and site management policies for the SPA and SAC support the maintenance and enhancement of these populations.

## 1 Introduction

As part of the National Winter Shorebird Count organised by the BTO, a systematic count of non-breeding water birds on the Isles of Scilly was carried out in winter 1984/85 (Moser and Summers 1987, Kirby 1985). This survey indicated internationally important numbers of turnstone and nationally important numbers of sanderling and ringed plover.

Between 1985 and 1995 there were no further co-ordinated counts of wader numbers and understanding of current populations and trends was poor.

The Isles of Scilly have been identified as an Important Bird Area (Pritchard et al 1992) and a candidate Special Protection Area (SPA) and Ramsar site for populations of breeding seabirds and non-breeding waders. The case for designation for non-breeding waders is based upon the results of the 1984/85 survey and lack of subsequent information that has held up the designation of the site for these species.

During the winters 1995/96 and 1996/97 the Isles of Scilly Environmental Trust and RSPB carried out co-ordinated wader counts to assess current populations on the islands. To complete the picture, co-ordinated winter counts on the islands, as part of the national Non-Estuarine Waterbird Survey (NEWS), were planned for winter 1997/98.

The results of this national survey (part of an international effort) would also allow the Isles of Scilly populations to be re-assessed within a national and international context.

This report sets out the results of the winter 1997/98 survey, and uses this and other available data from the last three years to assess the importance of the islands for non-breeding waders/waterfowl.

## **2 Survey methods**

Much of the 1998 survey was carried out as part of the NEWS - coordinated by Wetland Bird Survey partners BTO, WWT, JNCC and RSPB. Following the standard survey methodology, counts of waterfowl were made within four hours of low tide.

Counts were made between 10 and 12 January 1998.

For the purpose of identifying maxima, some additional high tide counts were also made where these were thought to give a more complete count of birds.

### **3 Results**

The results of the 1997/98 survey are shown in Table 1.

Results are shown for all waterfowl and wader species recorded.

Results of counts from 1996, and 1996/97 are shown in Tables 2 and 3. Results from the 1984/85 survey (Kirby 1985) are shown in Table 4. A summary of all recent counts between 1996 and 1998 is shown in Table 5.

The most important sites are shown in Table 7.



## 4 Discussion

### 4.1 Population trends

Data from the recent IoSET/RSPB counts (1996 onwards) (Tables 1-3) present a fairly consistent pattern of bird numbers and distribution across the islands.

Oystercatcher is the most abundant wader species, with peak counts in the region of 600-800 birds. However, these are not significant within a national/international context and the report focuses on the populations of turnstone, ringed plover, sanderling and purple sandpiper which have in the past approached national/international significance.

In comparison with data from the 1984/85 count, recent counts for these species are lower and, in some cases, much lower.

Table 6 indicates the percentage decline in population on the Isles of Scilly between 1984/85 and 1996/98.

Sanderling show a relatively small decline (8.5%) but this decline is 26.3% for ringed plover, 45.3% for purple sandpiper and a massive 66.9% for turnstone.

Declines have been noted at a national level. The pilot study for NEWS, carried out in 1995/96 and covering 8.5% of the UK's non-estuarine coast, indicated major declines in the four principal species - sanderling, turnstone, ringed plover and purple sandpiper - since the 1984/85 survey (Browne, Austin and Rehfish 1996). This strongly suggests decline figures of 44% for turnstone, 21% for sanderling, 28% for ringed plover and 53% for purple sandpiper.

Data from the full NEWS adds further clarity to the population declines since the 1984 winter shorebird count. Estimated declines are 36% for turnstone, 33% for sanderling, 27% for ringed plover and 44% for purple sandpiper on coastal sections covered by both surveys (Cranswick et al, 1999).

### 4.2 Assessment of national/international importance

Given the evidence of national declines, there is a need to re-assess the national population and hence the 1% qualifying levels. Population estimates are reviewed once every three years in keeping with internationally agreed timetables and UK populations will be next revised in 2000, and the figures given within this report will need to be re-assessed then.

However, whilst applying the current levels (Cranswick et al, 1999), the following conclusions can be made.



- No wintering wader populations approach percentage levels of international importance and therefore the Isles of Scilly fail to qualify as an SPA for this interest alone. Wintering turnstone, which reached levels of international importance in 1984, are now present in much lower numbers than in the past.
- However, the Isles of Scilly are nationally important for wintering sanderling and support 1.3% of the GB wintering population (see Table 5). If national population levels are revised, in the light of declines highlighted by NEWS (see Table 5), ringed plover also meet nationally important criteria.
- The Isles of Scilly also support 6-9% of the wintering GB population of greenshank and approximately 3% of the wintering population of little egret.
- Also of note, during the gathering of information on wintering waders, available data suggests that populations of wintering lesser black-backed gull and greater black-backed gull also meet nationally important criteria.

#### **4.3 Important sites**

Whilst the entire Isles of Scilly shoreline is used by non-breeding waders/waterfowl for feeding, resting and roosting, data from the 1984/85, 1995/96, 1996/97 and 1997/98 surveys and additional recent count data (Will Wagstaff, pers comm) suggests that some areas are of particular importance for the key species concerned.

Table 7 indicates all areas regularly supporting more than 20% of a population of one of the four key wader species. Particular conservation measures should be directed towards these sites.

## 5 Recommendations

### 5.1 Population monitoring

Given the importance of the population, there is a clear need for further monitoring of non-breeding wader/waterfowl numbers on the Isles of Scilly, and for these populations to be continually assessed within a national and international context.

Following the pilot survey of 1994/95, a full scale repeat survey was undertaken in the 1997/98 winter: the Non-Estuarine Coastal Waterfowl Survey (NEWS), co-ordinated by the Wetland Bird Survey partners (BTO, WWT, JNCC and RSPB) and carried out by volunteers.

As part of this national/international effort, comprehensive coverage of all the Isles of Scilly coastline is essential so that an accurate current population figure can be obtained.

It is recommended that more regular counts of some areas are made. Ideally, all of the coastline of the six major islands should be surveyed every five years. This would allow monitoring of the major sites for the key species and allow some monitoring of trends on the Isles of Scilly.

In addition, some attempt should be made to get more complete coverage of the outer islands during the winter - particularly as these may be of importance for purple sandpiper. Access is however difficult.

### 5.2 Conservation measures

(i) Disturbance

Given the relatively small number of people on the islands during the winter months and given the extent of suitable intertidal habitat, it is not considered that widespread disturbance to roosting/feeding waders is currently a serious problem. However, given the importance of the areas between Porthloo and the Harbour on St Mary's, recreational use of this area needs to be carefully controlled and monitored, and disturbance to birds minimised.

(ii) Beach cleaning

Concern has recently been expressed over the effects of beach cleaning programmes on populations of strandline invertebrates and consequently on bird populations (Llewellyn & Shackley 1996). On Scilly, mechanical beach cleaning is currently largely restricted to Town Beach, St Mary's, with hand picking methods employed elsewhere to remove human-related debris and driftwood. As there are extensive sections of coastline elsewhere where strandline communities are able to develop, at

this time beach cleaning is not considered to present a problem for wintering shorebirds. However, an expansion of the mechanical beach cleaning programme should be approached with caution.

### 5.3 Summary of recommendations

- **Population monitoring**  
Complete coverage of all coastal habitats on six major islands (St Mary's, Tresco, Bryher, Samson, St Martin's, St Agnes) every five years. Surveys in 2003, 2008.

IoSET/RSPB/EN

- **Conservation measures**  
Monitor recreational use of key areas.

IoSET/EN

Monitor expansion of beach cleaning programme.

IoSET/EN

## 6 Conclusions

The results of the 1997/98 survey and other available data from the last three winters confirms the Isles of Scilly as a site of national importance for wintering waders.

The islands clearly support nationally important populations of sanderling (with between 1.3% and 1.9% of the UK population).

The islands may also be of national importance for ringed plover, but further clarification of the UK population and therefore of the 1% qualifying levels is needed.

In addition, the Isles of Scilly appear to be of national importance for greater black-backed gull and lesser black-backed gull, and support a significant percentage of the small wintering populations of greenshank and little egret.

Although none of the wintering species reach levels of international importance, and support the case for Special Protection Area (SPA) designation in isolation, the Isles of Scilly do meet criteria for SPA designation for breeding seabirds. Large areas of coastal/marine habitat have also been designated as Special Area of Conservation (SAC).

The RSPB recommends that, given the nationally important wintering bird interest, site designations and site management policies should support the maintenance and enhancement of these populations.

## **7 Acknowledgements**

Fieldwork in 1997/98 was carried out by Dave Flumm, John Hale, Viv Jackson, Cath Jeffs, Leigh Lock, Peter Robinson and Will Wagstaff. Thanks to all other recorders who have contributed records used in this report.

English Nature promotes the conservation of England's wildlife and wildlife features. Financial help for this project was given by English Nature's grant scheme.

Thanks to Will Wagstaff for helpful comments in the preparation of this report.

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**Table 1 Isles of Scilly wader/waterfowl counts, January 1998**

| SPECIES                | ST MARY'S | ST AGNES | SAMSON | BRYHER | TRESCO | TEAN +<br>ST HELEN'S | ST MARTIN'S | TOTALS |
|------------------------|-----------|----------|--------|--------|--------|----------------------|-------------|--------|
| <b>WADERS</b>          |           |          |        |        |        |                      |             |        |
| Oystercatcher          | 144       | 132      | 95     | 64     | 159    | 54                   | 106         | 754    |
| Ringed plover          | 45        | 10       | -      | -      | 185    | -                    | 30          | 270    |
| Grey plover            | 1         | 55       | -      | -      | 33     | -                    | 1           | 55*    |
| Sanderling             | -         | 1        | -      | -      | 188    | -                    | 2           | 191    |
| Purple sandpiper       | 35        | 44       | -      | -      | -      | -                    | 5           | 84     |
| Dunlin                 | 2         | -        | -      | -      | 8      | -                    | -           | 10     |
| Bar-tailed godwit      | 2         | -        | -      | -      | -      | 6                    | -           | 8      |
| Curlew                 | 28        | 16       | 59     | 23     | 35     | 70                   | 11          | 242    |
| Redshank               | 5         | 5        | -      | 1      | 31     | -                    | 2           | 44     |
| Greenshank             | 6         | 1        | 1      | -      | 9      | -                    | 2           | 19     |
| Turnstone              | 169       | 58       | 3      | 9      | 81     | -                    | 27          | 347    |
| <b>OTHER SPECIES</b>   |           |          |        |        |        |                      |             |        |
| Black-throated diver   | -         | -        | -      | -      | 1      | -                    | -           | 1      |
| Great northern diver   | 4         | -        | 3      | 3      | 6      | 1                    | 2           | 19     |
| Slavonian grebe        | -         | -        | -      | -      | 2      | -                    | 1           | 3      |
| Cormorant              | -         | -        | 26     | -      | -      | -                    | 5           | 31     |
| Little egret           | 4         | -        | -      | 1      | 12     | -                    | -           | 12x    |
| Grey heron             | 5         | 1        | 2      | 1      | -      | -                    | 1           | 10     |
| Shelduck               | 3         | 5        | 32     | -      | 4      | -                    | -           | 44     |
| Gadwall                | -         | -        | 22     | -      | -      | -                    | -           | 22     |
| Mallard                | 17        | -        | 4      | -      | 2      | -                    | -           | 23     |
| Common scoter          | -         | -        | -      | -      | -      | -                    | -           | -      |
| Red-breasted merganser | -         | -        | -      | -      | -      | -                    | -           | -      |

\* St Agnes high tide roost count thought to be whole islands count

x Tresco high tide roost count thought to be whole islands count

**Table 2 Isles of Scilly wader counts March 1996 (Lock 1996)**

| SPECIES           | ST MARY'S  | ST AGNES &<br>GUGH | SAMSON                                     | BRYHER     | TRESCO     | TEAN & OTHERS                                                 | ST MARTIN'S        | TOTAL        |
|-------------------|------------|--------------------|--------------------------------------------|------------|------------|---------------------------------------------------------------|--------------------|--------------|
| Oystercatcher     | 47         | 57                 | 156                                        | 47         | 95         | 127                                                           | -                  | 529          |
| Ringed plover     | 16         | 3                  | -                                          | 30         | 30         | -                                                             | -                  | 79           |
| Grey plover       | 3          | 6                  | -                                          | 10         | 5          | -                                                             | -                  | 24           |
| Sanderling        | 225        | 10                 | -                                          | -          | 21         | -                                                             | -                  | 256          |
| Purple sandpiper  | 14         | 12                 | -                                          | -          | 0          | -                                                             | -                  | 26           |
| Dunlin            | 8          | -                  | -                                          | -          | 1          | -                                                             | -                  | 9            |
| Bar-tailed godwit | -          | -                  | 5                                          | -          | -          | -                                                             | -                  | 5            |
| Curlew            | 11         | 6                  | 18                                         | 16         | 6          | 4                                                             | -                  | 61           |
| Redshank          | 2          | 4                  | 2                                          | 1          | 15         | -                                                             | -                  | 24           |
| Greenshank        | 3          | -                  | -                                          | 2          | 2          | -                                                             | -                  | 7            |
| Turnstone         | 208        | 36                 | 1                                          | 80         | 21         | -                                                             | -                  | 346          |
| <b>TOTALS</b>     | <b>537</b> | <b>134</b>         | <b>182</b>                                 | <b>186</b> | <b>196</b> | <b>131</b>                                                    | <b>-</b>           | <b>1,366</b> |
| Notes             |            |                    | Includes<br>Puffin Island/<br>Green Island |            |            | Island not visited.<br>Large waders<br>counted from<br>Tresco | Island not visited |              |



**Table 3 Isles of Scilly wader/waterfowl counts January 1997**

| SPECIES              | ST MARY'S | TRESCO | BRYHER | ST AGNES | ST MARTIN'S | SAMSON | TOTALS |
|----------------------|-----------|--------|--------|----------|-------------|--------|--------|
| Black throated diver | 3         | 1      | 0      | 0        | 0           | 0      | 4      |
| Great northern diver | 1         | 4      | 0      | 0        | 0           | 1      | 6      |
| Great crested grebe  | 1         | 0      | 0      | 1        | 0           | 0      | 2      |
| Slavonian grebe      | 0         | 3      | 0      | 0        | 0           | 0      | 3      |
| Cormorant            | 3         |        | 0      | 2        | 1           | 18     | 24     |
| Shag                 | 247       |        | 58     | 9        | 31          | 93     | 438    |
| Little egret         | 2         | 2      | 2      | 0        | 3           | 3      | 12     |
| Grey heron           | 9         | 2      | 7      | 1        | 2           | 4      | 25     |
| Mute swan            | 0         | 0      | 0      | 0        | 0           | 7      | 7      |
| Shelduck             | 2         | 5      | 3      | 4        | 0           | 31     | 45     |
| Wigeon               | 1         | 0      | 0      | 0        | 0           | 0      | 1      |
| Gadwall              | 8         | 18     | 5      | 0        | 0           | 6      | 37     |
| Teal                 | 4         | 0      | 0      | 1        | 0           | 28     | 33     |
| Mallard              | 30        | 29     | 10     | 3        | 14          | 53     | 139    |
| Black duck           | 0         | 0      | 1      | 0        | 0           | 0      | 1      |
| Pintail              | 0         | 2      | 0      | 0        | 0           | 2      | 4      |
| Shoveler             | 0         | 0      | 0      | 0        | 0           | 16     | 16     |
| Pochard              | 6         | 0      | 0      | 0        | 0           | 0      | 6      |
| Tufted duck          | 15        | 0      | 0      | 0        | 0           | 0      | 15     |
| Goldeneye            | 3         | 1      | 0      | 0        | 0           | 0      | 4      |
| Oystercatcher        | 121       | 141    | 126    | 36       | 98          | 97     | 619    |
| Avocet               | 0         | 0      | 1      | 0        | 0           | 0      | 1      |
| Ringed plover        | 10        | 157    | 58     | 28       | 31          | 0      | 284    |
| Golden plover        | 0         | 0      | 0      | 1        | 0           | 0      | 1      |
| Grey plover          | 6         | 9      | 46     | 9        | 4           | 2      | 76     |

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| SPECIES                  | ST MARY'S | TRESCO | BRYHER | ST AGNES | ST MARTIN'S | SAMSON | TOTALS |
|--------------------------|-----------|--------|--------|----------|-------------|--------|--------|
| Knot                     | 0         | 0      | 0      | 0        | 0           | 1      | 1      |
| Sanderling               | 75        | 134    | 0      | 40       | 60          | 0      | 309    |
| Purple sandpiper         | 34        | 0      | 0      | 21       | 10          | 0      | 65     |
| Dunlin                   | 15        | 30     | 8      | 14       | 3           | 0      | 70     |
| Snipe                    | 0         | 2      | 2      | 0        | 4           | 0      | 8      |
| Bar-tailed godwit        | 0         | 0      | 0      | 0        | 1           | 21     | 22     |
| Curlew                   | 21        | 25     | 19     | 8        | 24          | 16     | 113    |
| Redshank                 | 4         | 24     | 3      | 6        | 5           | 27     | 69     |
| Greenshank               | 3         | 6      | 3      | 0        | 1           | 0      | 13     |
| Turnstone                | 95        | 57     | 10     | 22       | 53          | 1      | 238    |
| Black-headed gull        | 90        | 101    | 4      | 7        | 11          | 19     | 232    |
| Ring-billed gull         | 1         | 0      | 0      | 0        | 1           | 0      | 2      |
| Lesser black-backed gull | 1         | 283    | 4      | 19       | 1           | 328    | 636    |
| Herring gull             | 392       | 366    | 443    | 104      | 108         | 352    | 1,765  |
| Great black-backed gull  | 84        | 186    | 185    | 5        | 38          | 158    | 656    |
| Guillemot                | 2         | 0      | 0      | 0        | 0           | 0      | 2      |
| Razorbill                | 3         | 0      | 0      | 1        | 0           | 7      | 11     |
| TOTALS                   | 1,292     | 1,588  | 998    | 342      | 504         | 1,291  | 6,015  |

**Table 4 Isles of Scilly wader counts 1984/85 (Kirby 1985)**

| SPECIES           | ST MARY'S | ST AGNES & GUGH | SAMSON | BRYHER | TRESCO | TEAN & OTHERS | ST MARTIN'S | TOTAL |
|-------------------|-----------|-----------------|--------|--------|--------|---------------|-------------|-------|
| Oystercatcher     | 147       | 111             | 44     | 50     | 109    | 48            | 74          | 583   |
| Ringed plover     | 42        | 15              | 90     | 77     | 52     | 4             | 32          | 312   |
| Golden plover     | 0         | 25              | 0      | 0      | 0      | 0             | 0           | 25    |
| Grey plover       | 11        | 11              | 16     | 30     | 29     | 9             | 5           | 111   |
| Lapwing           | 1         | 0               | 0      | 1      | 3      | 0             | 0           | 5     |
| Knot              | 0         | 0               | 0      | 0      | 0      | 0             | 10          | 10    |
| Sanderling        | 168       | 17              | 21     | 0      | 105    | 4             | 14          | 329   |
| Purple sandpiper  | 3         | 47              | 43     | 0      | 0      | 1             | 12          | 106   |
| Dunlin            | 0         | 0               | 36     | 24     | 58     | 0             | 0           | 118   |
| Bar-tailed godwit | 1         | 3               | 9      | 0      | 40     | 0             | 2           | 55    |
| Curlew            | 20        | 15              | 44     | 20     | 25     | 34            | 23          | 181   |
| Redshank          | 8         | 15              | 8      | 3      | 10     | 5             | 0           | 49    |
| Greenshank        | 2         | 0               | 2      | 1      | 1      | 0             | 2           | 8     |
| Turnstone         | 219       | 148             | 149    | 138    | 198    | 39            | 45          | 936   |
| TOTALS            | 622       | 407             | 462    | 344    | 630    | 144           | 219         | 2,828 |



**Table 5 Assessment of importance of wader/waterfowl populations on Isles of Scilly**

| SPECIES                      | 1995/96 A | 1996/97 A | 1997/98 A | MAXIMUM | MEAN | GB WINTER<br>POPULATION<br>B | NATIONAL<br>% LEVEL B | REVISED GB<br>POPULATION<br>C | REVISED<br>NATIONAL<br>% LEVEL | IMPORTANCE                |
|------------------------------|-----------|-----------|-----------|---------|------|------------------------------|-----------------------|-------------------------------|--------------------------------|---------------------------|
| Great northern<br>diver      | -         | 6         | 18        | 18      | 12   | 3,000                        | 50                    | -                             | -                              | 0.5% of GB pop            |
| Little egret                 | 16#       | 12        | 12        | 16      | 13   | 500                          | 50                    | -                             | -                              | c3% of GB pop present     |
| Ringed plover                | 137#      | 284       | 270       | 284     | 230  | 29,000                       | 290                   | 21,170                        | 212                            | ***/** 0.8-1.1% of GB pop |
| Sanderling                   | 256       | 309       | 337#      | 337     | 301  | 23,000                       | 230                   | 15,410                        | 154                            | **** 1.3-2.0% of GB pop   |
| Purple sandpiper             | 26        | 65        | 84        | 84      | 58   | 21,000                       | 210                   | 11,760                        | 118                            | 0.3-0.5% of GB pop        |
| Greenshank                   | 8#        | 13        | 19        | 19      | 13   | 200                          | 50                    | -                             | -                              | 6-9% of GB pop            |
| Turnstone                    | 346       | 238       | 347       | 347     | 310  | 64,000                       | 640                   | 40,960                        | 410                            | * 0.5-0.8% of GB pop      |
| Lesser black-<br>backed gull | -         | 636       | -         | 636     | 636  | 50,000                       | 500                   | -                             | -                              | **1.3% of GB pop          |
| Great black-<br>backed gull  | -         | 656       | -         | 656     | 656  | 40,000                       | 400-                  | -                             | -                              | ** 1.6% of GB pop         |

A Counts from IoSET/RSPB co-ordinated counts except those marked # which are taken from Isles of Scilly Bird Reports.

B Cranswick et al, 1999.

C Revised UK population using declines highlighted in NEWS. 36% turnstone, 33% sanderling, 27% ringed plover and 44% purple sandpiper.

\*\*\*\* Nationally important mean counts.

\*\*\* Nationally important peak counts.

\*\* Nationally important mean counts - revised level.

\* Nationally important peak counts - revised level.

**Table 6 Percentage decline of key wader populations on Isles of Scilly between 1984/85 and 1996/98**

| SPECIES          | MEAN 1996-1998 | 1984/85 | PERCENTAGE ESTIMATED DECLINE 1984/85 - 1996/98 |
|------------------|----------------|---------|------------------------------------------------|
| Ringed plover    | 230            | 312     | 26.3                                           |
| Sanderling       | 301            | 329     | 8.5                                            |
| Purple sandpiper | 58             | 106     | 45.3                                           |
| Turnstone        | 310            | 936     | 66.9                                           |



**Table 7 Important winter wader sites on Isles of Scilly**  
(areas regularly supporting >20% of ringed plover, sanderling, purple sandpiper and turnstone)

| SITE                               | SPECIES PRESENT (>20% Isles of Scilly population) |
|------------------------------------|---------------------------------------------------|
| <b>ST MARY'S</b>                   |                                                   |
| Porthmelon/Thomas Porth/Porthloo   | Sanderling, ringed plover                         |
| Quay                               | Turnstone, (purple sandpiper)                     |
| Porthcressa                        | Sanderling                                        |
| Porthellick                        | Ringed plover                                     |
| <b>ST AGNES</b>                    |                                                   |
| Pereglis/Burnt Island/Porthkillier | Turnstone, purple sandpiper                       |
| <b>TRESCO</b>                      |                                                   |
| Pentle Bay/Rushy Point             | Sanderling, ringed plover, turnstone              |
| <b>BRYHER</b>                      |                                                   |
| Green Bay                          | Ringed plover                                     |
| <b>SAMSON</b>                      |                                                   |
| East Porth/Samson Flats            | Ringed plover (?)                                 |
| <b>ST MARTIN'S</b>                 |                                                   |
| Neck of the Pool/St Martin's Flats | Sanderling, ringed plover                         |