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# REPORT

ON THE

# MIGRATION OF BIRDS.

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NINTH REPORT, 1887.

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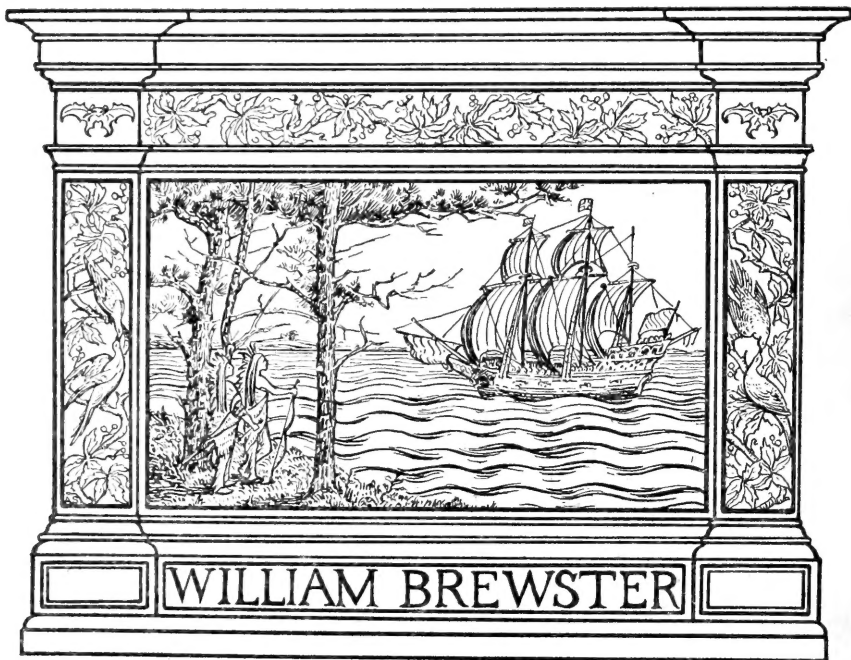
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1889.

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# REPORT

ON THE

# MIGRATION OF BIRDS

IN THE

SPRING AND AUTUMN OF 1887.

BY

MR J. A. HARVIE-BROWN, MR J. CORDEAUX,

MR R. M. BARRINGTON, MR A. G. MORE,

AND

MR W. EAGLE CLARKE.

---

NINTH REPORT.

(Vol. II., No. 4.)

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EDINBURGH:

PRINTED BY M'FARLANE & ERSKINE,

14 AND 19 ST JAMES SQUARE.

1889.





## P R E F A C E.

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THIS Report contains a summary of the investigations of a Committee reappointed by the British Association for the Advancement of Science, at Manchester, in 1887, to consist of Professor Newton, Mr J. A. Harvie-Brown, Mr John Cordeaux, Mr W. Eagle Clarke, Mr R. M. Barrington, and Mr A. G. More, for the purpose of obtaining (with the consent of the Master and Elder Brethren of the Trinity House, the Commissioners of Northern Lights, and the Commissioners of Irish Lights) observations on the Migration of Birds at Lighthouses and Lightships, and of reporting on the same at Bath in 1888. Mr Cordeaux to be the Secretary.

The returns relating to Scotland have been arranged by Mr J. A. Harvie-Brown; for the East Coast of England, by Mr Cordeaux; for the West Coast of England, by Mr W. Eagle Clarke; and those for the Coasts of Ireland, by Mr R. M. Barrington and Mr A. G. More.

This is the ninth, and final, report issued, and the Committee have much pleasure in stating that one of their number, Mr William Eagle Clarke, of the Museum of Science and Art in Edinburgh, has undertaken the laborious task of reducing the mass of facts collected, from an examination *de novo* of the whole of the schedules sent in, so as to bring out the general results of their inquiry, both statistically and otherwise, on strictly scientific lines, and in as condensed and clear a method as possible.

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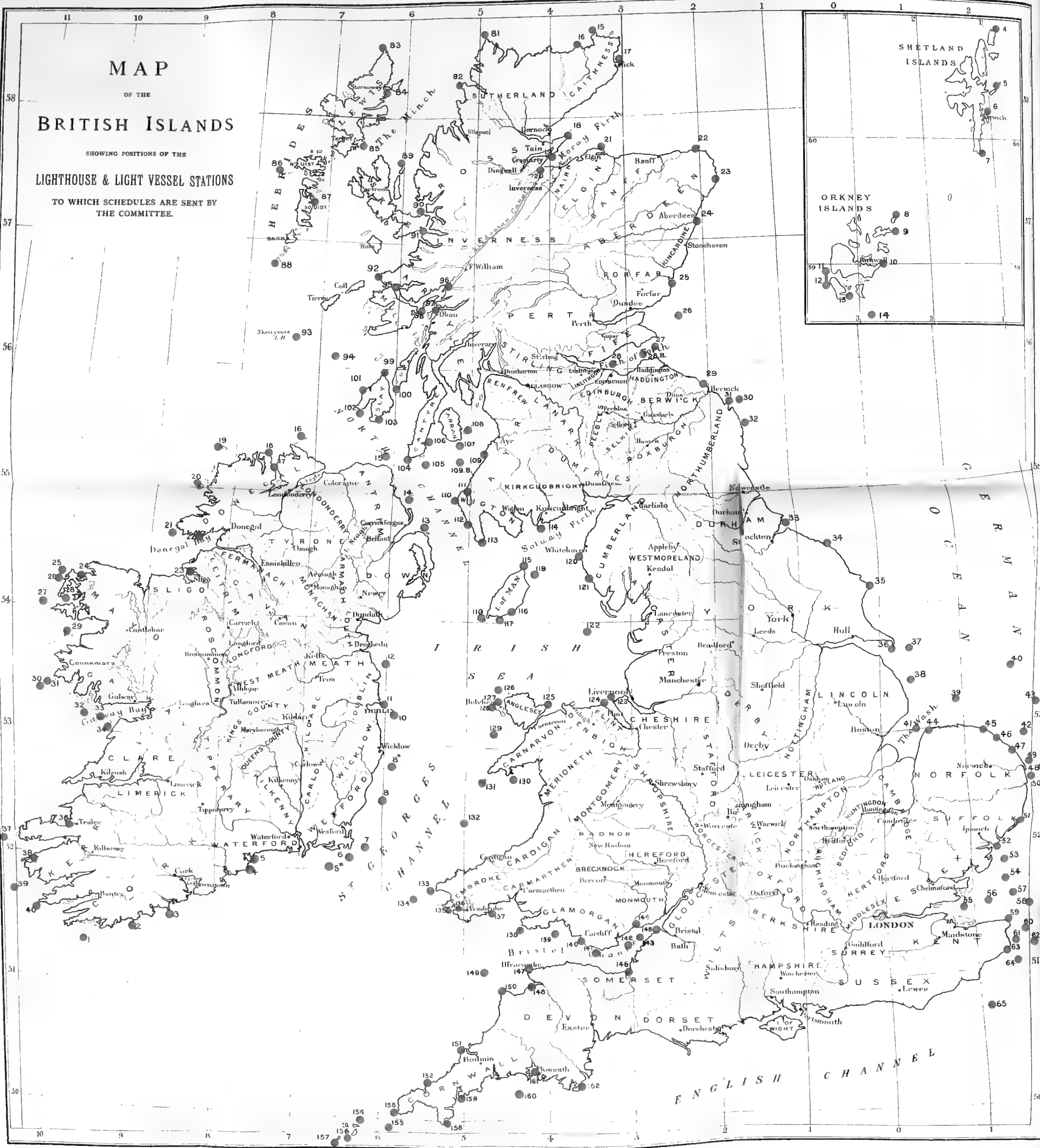
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# MAP OF THE BRITISH ISLANDS

SHOWING POSITIONS OF THE  
LIGHTHOUSE & LIGHT VESSEL STATIONS  
TO WHICH SCHEDULES ARE SENT BY  
THE COMMITTEE.



# LIST OF STATIONS.

1. Iceland.
2. Do.
3. Faroe.
- 3b. Fair Isle.

## Scotland—East Coast.

4. N. Unst.
5. Whalsey Skerries.
6. Bressay Sound.
7. Sumburgh Head.
8. N. Ronaldshay.
9. Start Point.
10. Auskerry.
11. Hoy Sound (Low).
12. Hoy Sound (High).
13. Cantick Head.
14. Pentland Skerries.
15. Dunnet Head.
16. Holborn Head.
17. Noss Head.
18. Tarbet Ness.
19. Cromarty.
20. Chanonry Point.
21. Covesea Skerries.
22. Kinnaird Head.
23. Buchan Ness.
24. Girdleness.
25. Montroseness.
26. Bell Rock.
27. Isle of May.
28. Inchkeith.
- 28b. Fidra (1885).
29. St Abbs Head.

## England—East Coast.

30. Longstone L.H.
31. Inner Farn L.H.
32. Coquet Island L.H.
33. 5 Buoy Tees L.V.
34. Whitby High L.H.
35. Flamborough Head L.H.
36. Spurn Point L.H.
37. Spurn L.V.
38. Inner Dowsing L.V.
39. Dudgeon L.V.
40. Outer Dowsing L.V.
41. Llyn Wells L.V.
42. Hasbro' L.V.
43. Leman and Ower L.V.
44. Hunstanton L.H.
45. Cromer L.H.
46. Hasbro' L.H.
47. Winterton L.H.
48. Newarp L.V.
49. Cockle L.V.
50. Corton L.V.
51. Orfordness L.H.
52. Langard Point L.H.
53. Shipwash L.V.
54. Swin Middle L.V.
55. Nore L.V.
56. Tongue L.V.
57. Kentish Knock L.V.
58. Galloper L.V.
59. North Foreland L.H.
60. North Sand Head L.V.
61. Gull L.V.
62. Eastside L.V.
63. South Foreland L.H.
64. South Sand Head L.V.
65. Varne L.V.

## Scotland—West Coast.

81. Cape Wrath.
82. Rhu Stoir.
83. Butt of Lewis.
84. Stornoway.
85. Island Ghlais.
86. Monach Isles.
87. Ushenish.
88. Barra Head.
89. Rona.
90. Kyleakin.
91. Isle Ornsay.
92. Ardnamurchan.
93. Skerryvore and Hynish Signal Tower, Tiree.
94. Dhuheartach.
95. Sound of Mull.
96. Corran Ferry.
97. Lismore.
98. Fladda, Easdale.
99. Rhuvaal.
100. M'Arthur's Head.
101. Skervuile.
102. Rhinns of Islay.
103. Lochindaul.
104. Mull of Kintyre.
105. Sanda.
106. Devaar.
107. Pladda, Arran.
108. Lamdash.
109. Turnberry.
- 109b. Ailsa Craig (building, 1885).
110. Corsewall.
111. Loch Ryan.
112. Portpatrick.
113. Mull of Galloway.
114. Little Ross.

## Isle of Man.

115. Point of Ayre.
116. Douglas Head.
117. Langness (1880).
118. Chickens Rock.

## England—West Coast.

119. Bahama Bank L.V.
120. St Bees L.H.
121. Selker L.V.
122. Morecambe Bay L.V.
123. Dee L.V.
124. Air L.H.
125. Menai L.H.
126. Skerries L.H.
127. Holyhead Breakwater L.H.
128. South Stack L.H.
129. Carnarvon Bay L.V.
130. St Tudwalls L.H.
131. Bardsey Island L.H.
132. Cardigan Bay L.V.
133. South Bishop L.H.
134. Smalls L.H.
135. Great Castlehead L.H.
136. Milford L.H.
137. Caldy L.H.
138. Helwick L.V.
139. Scarweather L.V.
140. Nash L.H.
141. Breaksea L.V.
142. Flatholm L.H.

143. English and Welsh Grounds L.V.

144. Usk L.H.
145. Avon L.H.
146. Burnham L.H.
147. Bull Point L.H.
148. Bideford L.H.
149. Lundy L.H.
150. Hartland Point L.H.
151. Trevoise Head L.H.
152. Godrevy L.H.
153. Longships L.H.
154. Sevenstones L.V.
155. Wolf-Rock L.H.
156. Scilly L.H.
157. Bishop's Rock L.H.
158. Lizard L.H.
159. Falmouth Harbour L.H.
160. Eddystone L.H.
161. Plymouth Breakwater L.H.
162. Start L.H.

## Ireland.

1. Fastnet.
2. Galley Head.
3. Old Head, Kinsale.
4. Mine Head.
5. Dungarvan.
- 5\*. Coningbeg Lt.-ship.
6. Barrels Rock Lt.-ship.
7. Tuskar.
8. Arkiow S. Lt.-ship.
- 8\*. Arklow N. Lt.-ship.
10. Kish Bank Lt.-ship.
11. Howth Baily.
12. Rockabill.
13. Copeland Island.
14. Maidens.
15. Rathlin.
16. Innishtrahull.
17. Dunree Head.
18. Lough Swilly.
19. Tory Island.
20. Aranmore.
21. Rathlin O'Birne.
22. Killybegs.
23. Oyster Island.
24. Broadhaven.
25. Eagle Island, E.
26. Eagle Island, W.
27. Blackrock, Mayo.
28. Blacksod Point.
29. Clare Island.
30. Slyne Head, N.
31. Slyne Head, S.
32. Arran Island, N.
33. Straw Island.
34. Arran Island, S.
36. Samphire Island.
37. Tearaght.
38. Valentia.
39. Skelligs.
40. Dursey Island.

## Outlying Stations.

- Heligoland.  
 Stevns Fyr, Zealand.  
 Malmo, Sweden.  
 Casquets L.H., Alderney.  
 Hanois L.H., Guernsey.



# NINTH REPORT

## ON

# THE MIGRATION OF BIRDS

IN THE  
 SPRING AND AUTUMN OF 1887.

### EAST COAST OF SCOTLAND.

We repeat the List of Stations with Returns up to date.

#### EAST OF SCOTLAND.

In 1887. Schedules filled in.	Returns in 9 years, including 1887.	1887. Actual returns.	SCHEDULE.	Values.	Feet.
<b>SHETLAND.</b>					
8	7	*	4. N. Unst,.....	IV.	230
			5. Whalsey Skerries, .	II.	143
			6. Bressay, .....	III.	105
1	7	*	7. Sumburgh Head, ..	I.	
<b>ORKNEY.</b>					
2	8	*	8. N. Ronaldshay, .....	IV.	
			9. Start Point, .....	V.	
	6		10. Auskerry, .....	I.	
			11. Hoy Sound (Low),	V.	
			12. Hoy Sound (High),	V.	
			13. Cantick Head, .....	III.	
13	9	*	14. Pentland Skerries,	I.	
<b>MAINLAND.</b>					
1	18	*	15. Dunnet Head, } Caithness, .....	V.	346
			16. Holborn Head, } Caithness, .....	V.	75

The names of the Reporters are given under  
 "Diary from the Stations."

In 1887. Schedules filled in.	Returns in 9 years, including 1887.	1887. Actual returns.	MAINLAND— <i>Continued.</i>	Values.	Feet.
1	2	*	17. Noss Head, Caithness, .....	V.	175
			18. Tarbat Ness, East Ross, .....	V.	175
	6	*	19. Cromarty, East Cromarty, .....	V.	60
	4		20. Chanonry Point, Elgin, .....	V.	40
			21. Cove sea Skerries, Elgin, .....	V.	160
			22. Kinnaird Head, Aberdeen, .....	V.	120
1	1st	*	23. Buchan Ness, Aberdeen, .....	V.	130
	1st	*	24. Girdleness, Aberdeen, .....	V.	185
			25. Montroseness, Aberdeen, .....	V.	124
1 one lost.	9	*	26. Bell Rock, Fife Coast, .....	I.	93
			26B. Carr Rock Lightship, Fife Coast, .....	?	?
0	8		27. Isle of May, Firth of Forth, .....	I.	240
1	7	*	28. Inchkeith, Firth of Forth, .....	IV.	220
	2	*	28B. Fidra, Firth of Forth, instituted 1886, .....	?	?
			29 St Abb's Head, Berwickshire, .....	V.	224

The names of the Reporters are given under "Diary from the Stations."

*Extracts from Diary from the Stations.*

The following notes are selected from a large number of letters and notes, showing the constantly increasing interest taken in the work of the Committee:—

*N. Unst.*—John Nichol (principal) says: "Ravens variously



marked were seen in June and July near Lerwick. One was jet black with white wings. Another white head and tips of wings. Others variously marked.

“Teal and Widgeon, reckoned rare in Unst, seen 23d November. The Starling is not of the Faroe species, but of the common species. Took particular note of this. Breed. Make for shore in winter at night—only with us during the day. Fewer land birds in 1887 than in most seasons, except greater numbers of Linnets (Twites?) in day time. Stormy Petrels were the most persistent night-callers we had. More Cormorants than usual in winter and more Eider Ducks than in former years. No Swans seen to date of 31st December 1887. Strange fact noted: No Solan Geese seen between October 28th and November 20th, although for certain there were plenty of fish about, and the weather fine.”

Under date of March 7th, Mr Nichol in a letter describes a whale chase. Two large Finners off the shore of Balta Vöe (*Physeter tursio*), estimated at over 70 feet long. Not captured.

On 20th March a large Eagle pounced on a Hooded Crow and carried him off, flying past going north. In August occur records of Eagles on Hermann's Hill. Young had been destroyed [*by the selfish edict then in force.—J. A. H.-B.*]. A Little Auk, Mr Nichol says, “measured 8½ inches from point of beak to tip of tail,” which is over the measurements in Johns' Book, which he has. [We are glad to find such care taken as this indicates.—J. A. H.-B.] Greater number of Gulls seen than usual in September, indicating greater abundance of fish.

“On the 24th December,” says Mr Nichol, “at 10 A.M.—a rare occurrence—a flock of six Cormorants appeared, same time another flock of six. Both flocks flying round the rock one after the other. After once round, the hindermost flock went right away westerly. The other went three times more round the rock, as if looking for the other flock, *before leaving also westerly.* [Italics are mine.—J. A. H.-B.] To date 31st December. Not one been seen since, although before daily.”

Mr Nichol relates another whale hunt at Unst, on Wednesday, 28th September 1887. Also unsuccessful.

I must pay a passing tribute to the admirable schedules sent in by Mr Nichol, including two entirely devoted, as re-

quested, to movements of Solan Geese, which are sure to yield, some day, valuable information.

*Sumburgh Head.*—Mr James Youngclause.—A very short single schedule. Birds very scarce. Greenfinch found dead on 9th December. Mentions *residents* there, which may yet be utilised for minute records of distribution. Arrival and departure of rock birds—not one seen after the 12th August. No “rushes” of birds seen. (Assistant’s name, Donald Campbell.)

*North Ronaldshay.*—John Tulloch.—Great numbers of Gulls on the Island all winter, living mostly in the turnip fields. “There are 100’s (*sic*) to be seen in a field at times, feeding. They will hollow the turnip, leaving the outside skin only. The only way to keep them away is to shoot some, and hang them up on poles.”

*Pentland Skerries.*—John Gilmour (assistant keeper—not “principal,” as in last Report).

The Crossbill occurs (see letter of 2d August 1887, and schedule under date—22d July being date of occurrence).—“There were three of them on the island, and they remained over a week. This is in no mistake a rare bird here, and I have never seen it before.”

“A Game Hawk was on the island a good part of the summer, and made sad havoc among the Terns” (schedule, 10th August 1887). This may partially account for the shifting of nesting sites of the Terns so frequently, to which we allude elsewhere (“Vertebrate Fauna of the Outer Hebrides,” *in the press*. David Douglas).

[Two of the schedules refer entirely to Solan Geese, as requested. These from the various stations should be separately considered and reported upon in the final digest.—J. A. H.-B.] They bulk about the Pentland Firth largest in August; and only stragglers are seen by 1st October (see letter). No great movement to date of 1st October of other birds, except the last two days, 29th and 30th September. Rush shortly at date expected—(see schedules). Mr John Gilmour, under date of 5th November, sends wings and feet of a Yellow Bunting. It was shot on the 2d November. He goes on to say—“we had not many birds here during October, as compared with what I have seen in former years; the wind was never in the

east during the whole month. But the wind having shifted to S.E. during the first three days of November, with a strong gale, we have had a considerable 'rush' of Fieldfares, Redwings, Goldcrests, Song Thrush, Blackbirds, Woodcock, Snow Bunting, and Yellow Bunting. There is also, with little doubt, a Hoopoe, described as seen on 9th October." All the lighthouse keepers at Pentland Skerries assist keenly in the work, during their watches, viz., Messrs Mercer (principal), M'Gaw and Dawson (assistants).

*Dunnet Head.*—David Laidlaw and James Carson.—One schedule.—“Gulls came to the cliffs to breed a fortnight earlier, and left a fortnight earlier, about the middle of February to middle of September.” Hawks and Carrion (?) Crows (Hooded?) frequent the cliffs in the breeding season. Gannets reported during July, August, and September, passing and repassing in such quantities, that it would be quite impossible to form any idea.

*Noss Head.*—James Ferrier.—One schedule.—Note: “The Cormorants breed here under the headland, and never leave all winter; go forth to feed early, and return to rest in the evening.” [Query: Is this the real Cormorant, or only the Shag? I fancy the latter most probably.—J. A. H.-B.]

*Buchan Ness.*—William Ross.

*Bell Rock.*—James Jack.—Unfortunately a spring schedule is lost. This one dates 1st September to 21st. But the spring schedule was, Mr Jack says, very light, and few birds seem to pass this way in spring except Larks.

*Inchkeith.*—Robert Grierson.—March 14th to October 16th, seven entries under seven dates.

#### SEPARATE REPORT UNDER GENERA AND SPECIES.

**TURDIDÆ.**—*Thrushes.*—Returns commence in January, and between 1st and 23d, Blackbirds, Fieldfares, occur in small numbers, and one Thrush on 23d; wind variable, from fresh S.W. to strong E. on 7th, rest westerly; all at Pentland Skerries.

*February.*—A single record of Blackbird at Pentland Skerries on 24th.

*March.*—At Pentland Skerries, two dates of straggling Blackbirds, 3d and 14th.

*April.*—Thrushes and Blackbirds at N. Ronaldshay and Pentland Skerries, 4th, at latter, and between then and 27th; and Ring Ouzels on 27th, with S.E. fresh on island.

*September.*—Most returns from Pentland Skerries of Blackbirds and Thrushes; winds variable, but with easterly tendency. Also one record from Noss Head.

*October.*—No great appearance; indeed, as compared with 1886, infinitesimal. Only small items on six dates, between 10th and 31st, of Redwings (10th), and Blackbirds, Song Thrushes (23d), and Fieldfares (31st); winds northerly and easterly.

*November.*—The above succeeded by a "perfect rush" of Fieldfares at same station on the 1st. "Flocks all day;" and also of Redwings (several) and two Blackbirds. 2d, Song Thrushes all day. (Winds continuing easterly, but more to south than in October.) Yet after this no great movement apparently at Pentland Skerries. Only other stations recording are Dunnet Head (Fieldfares, strong N.E. breeze, haze; and Noss Head S.S.E. gale, a few Thrushes); and at N. Ronaldshay, Blackbirds and Thrushes; strong N.N.E. and showers.

*December.*—Rush all over; only two records at Pentland Skerries of Blackbirds on 21st and 26th.

SAXICOLINÆ.—*January.*—6th, one "Stonechat" (Wheatear?), at 1.11 A.M.; strong S. at N. Unst.

*N.B.*—This may not have been a Common Wheatear at such a date.

*March.*—At Pentland Skerries one Whinchat all day; moderately W., and showers "rare."

*April.*—At Pentland Skerries, 6th, Wheatears (*sic*) all day on lighthouse; Light N. cloudy; more by the 10th, and one *Redstart* (or more?) on 27th.

*May.*—"Stonechats" (at N. Ronaldshay)—[probably Wheatears *vera*.—J. A. H.-B.] on 17th; and *Redstart*, *male*, at Pentland Skerries all day on 4th.

*June.*—One only record at N. Unst, at 2 P.M. on the 6th; light S. breeze; rested on rock.

*July.*—*Blank.*

*August.*—At Pentland Skerries, 17th, 19th, and 23d, single Wheatears: winds various, from light W.N.W.; moderate N. to fresh S.W. on the three dates.

*September.*—At N. Unst, one on 20th, and single occurrences on 23d and 30th, same place.

At Pentland Skerries, one Redstart ♀ on 3d, and Wheatears again at ditto, on 22d; and at N. Unst, on 26th, single birds.

*October.*—“Stonechats,” Wheatears, etc., at N. Unst, 26th, and earlier at more southern stations; earliest at Bell Rock on 1st; rush on 5th at *Fidra*, *i.e.*, “numbers on island all day.” Stations returning in small numbers, N. Unst, Pentland Skerries, Bell Rock, Inchkeith, and *Fidra*. No more records after October.

SILVIINÆ.—*Spring.*—*March.*—One Redbreast all day on 1st at Pentland Skerries; fresh W., haze.

*April.*—23d, One Redbreast on lighthouse; S.E., haze.

*Autumn.*—*September.*—At Bell Rock, on 15th, one Robin; and at *Fidra*, one on 24th.

*December.*—At Dunnet Head, one; N., clear.

PHYLLOSCOPINÆ.—*In April.*—On Pentland Skerries, on 23d and 24th; a few all day; S.E., showers. The only spring record.

*Autumn.*—*September.*—At N. Unst, one W. Warbler; N., strong breeze and showers; and at Noss Head one Goldcrest all day.

*October.*—Nothing; but in November, five or six Goldcrests all day at Pentland Skerries; S.S.E. and rain.

*December.*—One Goldcrest cock; N.W. gale at Noss Head; flying about the outhouses.

ACROCEPHALINÆ.—*Blank.*

ACCENTORIDÆ.—*Blank.*

TROGLODYTIDÆ.—No records till *September*; and then only two at Bell Rock (on 24th), and Inchkeith (28th), young birds.

*October.*—One Common Wren at N. Unst; N.N.W., clear, on 2d (see W. Nichol's Notes).

*November.*—At Pentland Skerries, single birds reported; light N.W. wind (“first seen for some time”), on 11th, 12th; at Dunnet Head, one; light W. breeze, clear on 29th.

MOTACILLIDÆ.—*April.*—7th, at Pentland Skerries, the first seen this spring; light variable, clear. Again single birds seen on 27th, one of Pied Wagtail and one Rays [? or the long-tailed yellow one, which is the Grey Wagtail. Rays has very short tail.

—J. A. H.-B.]

*July.*—Rays Wagtail is again alluded to, but we suspect

this will turn out to be the Grey. [Yet Mr Barrington, in June 1886, shot a veritable *M. Ravi* in N. Rona!!]

*August.*—One record of Wagtail at Pentland Skerries, after strong N.W. wind on island.

*September.*—At Pentland Skerries, a few Pied Wagtails, on five dates between 3d and 22d. The most, six on the 22d; also one Wagtail at Bell Rock on 2d; strong S. breeze.

*October.*—Pied Wagtails at Pentland Skerries, fresh W., on 5th.

ANTHIDÆ.—*January.*—Rock Pipits noted at N. Unst on 29th. No more of this species till Autumn.

*March.*—At N. Unst on 7th, and again on 21st, “Moss-cheepers,” and at Bell Rock, a few on 20th and 23d; S.E., fresh, and haze.

*April.*—A few on 23d at N. Unst; “three or four remained all the year.”

*July.*—Three at N. Unst; S.W., strong breeze. [But are these not resident?—J. A. H.-B.]

*August.*—All returns from Pentland Skerries. *N.B.*—“Rush” on afternoon of 23d, and again on 23d; light W., breeze, haze, left flying south.

*September.*—At N. Unst, numerous on 20th, and flock of five on 1st; N., fresh, clear. A few at Bell Rock, and an increase observed on 15th there; wind S.S.W. and S.W., light.

*October.*—On 4th and 5th, a number on Bell Rock; S.W. strong breeze, haze. Rested on rock; light breeze on 5th.

MUSCICAPIDÆ.—*August.*—At Pentland Skerries, one on 10th on island; N.W., cloudy.

*September.*—At Pentland Skerries, one or more on 5th all day; fresh N.E. Do., two or three on 29th all day; fresh E. Do., a few on 30th all day, N.N.E., cloudy.

*October.*—At Pentland Skerries, one or two all day on 5th; strong N.W., cloudy.

From the above it is evident Pentland Skerries is a regular resting place most seasons. No doubt the Pied Flycatcher is intended throughout.

HIRUNDINIDÆ.—*May.*—13th, at N. Ronaldshay, two, 5 P.M.; N.N.E., fresh, clear. 11th, at Pentland Skerries, “Arrival of all day;” N.W., clear. 15th, do. do., all day; W.N.W., clear; on lighthouse. 26th, do. do., one, 12.30 P.M.; light N.E.; flying W. 14th. at Dunnet, two, 4 P.M.; light W. breeze, clear.

*June.*—26th, at *N. Unst*, two, 8 P.M.; S.W., clear, “rarely seen.” 5th, 6th, and 7th, at Pentland Skerries, number all day; strong E., haze; variable and fresh. 17th, at Pentland Skerries, several all day; moderate E.N.E. breeze, fog; flying about lighthouse.

*August.*—27th, at Dunnet, two at 4.30 P.M.; S.E., clear.

*September.*—1st, Pentland Skerries, three at 11.40; strong clear, E.

FRINGILLIDÆ.—*February.*—6th, 17th, and 20th, Linnets (Twites?) and Chaffinches (“rare”); the latter with S. strong breeze, haze—all at *N. Unst*. [*Note.*—Winds have been quite abnormal all this season throughout; hence, also, our very fine summer.—J. A. H.-B.]

*March.*—At Pentland Skerries, one seen all day (strong S.S.E., and haze) on 22d.

*April.*—26th, same place, two all day; S.E., fresh, haze on lighthouse.

*At Pentland Skerries.*—Chaffinches on the 4th, and Greenfinches on the 16th and 19th, in small numbers. Wind, in the latter case, N.N.W. by W.S.W. to N.E., with rain.

*December.*—4th, at *N. Unst*, one Chaffinch (S.W., sleet) resting on lighthouse; and on 9th, one all day; fresh N.W., snow. At Sumburgh Head, 1 Greenfinch (fresh breeze, N., and snow) on 9th; and same day, twelve Grey Linnets (Twites?) all day, “flying about a dyke.”

*August.*—At *N. Unst*, two Linnets (Twites?) rested on rock; W., light breeze, clear.

*September.*—At *N. Unst*, eighteen seen at noon; light W. breeze, fog; flying about rock. 29th and 30th, at Pentland Skerries, Chaffinch seen all day; fresh E., haze, and N.E., cloudy. On 30th, also seen all day.

*October.*—At *N. Unst*, Linnet (Twites?), four seen at 10 A.M.; N.W., fresh breeze, and snow. On 23d and 28th, 100 (old and young) all day time; variable light airs, haze.

*November.*—At *N. Unst*, on 20th, “Linnets.”

EMBERIZINÆ.—*January.*—Common Bunting at Pentland Skerries, one all day on lighthouse; fresh S.W.

*April.*—30th, at Pentland Skerries, one Common Bunting; moderate N.W., clear; on lighthouse.

*May.*—7th, at Pentland Skerries, one Common Bunting all

day; light S.S.E., haze; on lighthouse. And 22d, one Snow Bunting all day; fresh N.W.

*July.*—22d, at Pentland Skerries, one Common Bunting all day; strong W.N.W., clear; on lighthouse, and till 29th.

*September.*—13th to 25th, at N. Unst, Snow Buntings. Flock on 13th; and from six to fourteen on other dates (6 dates). Winds, northerly and westerly. Also at Pentland Skerries and Bell Rock.

*October.*—5th, 14th, 20th, Snow Buntings disappeared on 5th at N. Unst. Five reappeared with N.N.W. and snow, and disappeared at 1 P.M. same day; and two seen on 20th. A few seen at Pentland Skerries on 11th, and again on 29th. A large flock at Dunnet on 14th; N.E., sleet.

*November.*—From 1st on to 20th, numbers, increasing in quantity by 5th. 11th, with Common Buntings on 18th, and Yellow Buntings on 19th and 20th. On 3d, at N. Ronaldshay, *hundreds*; S.E., strong, and still on lighthouse on 23d. At Bell Rock, on 20th and 21st, a few only.

*December.*—Two only, all day, on 9th at Sumburgh Head.

ALAUDIDÆ.—No spring records; nor till September 23d, on Bell Rock, four seen; light W., flying S.E.

*October.*—Nothing.

*November.*—20th, at Bell Rock, one struck, not killed, at 3 A.M.; light W. breeze, haze.

*December.*—8th, at Pentland Skerries, flock all day; moderate S.W., and snow; increased to-day. Same date, at Dunnet, flock of, at 10 A.M.; light E. breeze, snow.

STURNINÆ.—*In March.*—Record of one Starling found dead at foot of tower at Pentland Skerries; light W., clear.

*July.*—31st, at Pentland Skerries, for several days, in one large flock. 5th, at Noss Head, one pure white Starling at 4 A.M.; N.W., fresh. Flying about.

*September.*—On 16th, flock of Starlings flying about, all young birds, at Inchkeith.

*October.*—At Pentland Skerries, nine; wind, N.W.; light haze on 25th. On 27th, at same place, twenty-four (variable light airs), *old and young*; and at Bell Rock, on 18th, one old bird; fresh W. breeze.

*November.*—On 14th, six at North Unst; N., fresh breeze,



snow. And on 11th, at Pentland Skerries, *one*; N.N.E. "Struck, not killed."

*CORVIDÆ.*—*February.*—At N. Unst, four Crows, 2.9 A.M., daily seen. N.W., light, clear. And 13th, Black Ravens; N.W., fresh, haze.

*March.*—At Pentland Skerries, one Jackdaw all day; light S.E.E., haze; on lighthouse. And again on 30th, S.W., clear; flying over. On 3d, at Noss, two Ravens flying over; fresh W. breeze. Rooks and Grey Crows are also taken note of at N. Unst and Pentland Skerries.

*April.*—24th, Rooks at N. Unst, a flock flying about. Also noted at Pentland Skerries; and also twenty at N. Ronaldshay on 28th.

*July.*—On 6th, Rooks all day at Pentland Skerries; had been there for a week.

*August.*—On 3d, one Raven at N. Unst, and one on 24th; S.E. Rested on rock.

*September.*—At N. Unst many records, but no great numbers of Ravens, Hooded Crows; Rooks (28th, flock of eight). S.W. wind on six or seven dates.

*October.*—Here also a few returns of the same species, and one Jackdaw on 10th at Pentland Skerries.

*November.*—At Pentland Skerries Great Crows, Ravens, and Rooks; and Ravens at Noss Head.

*December.*—Grey Crows at Pentland Skerries, three dates—8th, 27th, and 31st.

*CYPSELIDÆ.*—*May.*—One swift seen at Bell Rock on 3d, an early date; light S., clear.

*August.*—Two seen at Pentland Skerries on 8th at 2 P.M.; light S.W. "Flying about the tower for insects."

*September.*—One Swift all day on 16th at Pentland Skerries; light S.E. to N.E., clear.

*CUCULIDÆ.*—*May.*—Two on 18th at Bell Rock.

*STRIGIDÆ.*—*September.*—16th, at Pentland Skerries, one Owl; moderate E.S.E., cloudy. "Rare."

*October.*—At same place two Short-Eared Owls—one shot; N.N.E., showers.

*FALCONIDÆ.*—One record of Falcon on February 7th at N. Unst.

*March.*—Two Sparrow Hawks at N. Unst.

*June.*—One Hawk at N. Ronaldshay; and various autumn

records as usual. Nothing new to be gleaned from them. Principally Sparrow Hawk (usually meaning *Merlins*), Falcons, Kestrel, etc.

PELECANIDÆ.—Cormorants.—We have not catalogued yet all the winter colonies of the Great Cormorant, so records of this species are useful. The only birds recorded this year on E. Coast are: *October* 27th, four, flying E. Wind N.W. at Pentland Skerries. *November* 21st, flock of thirty, resting on rock of N. Unst.

We have had a number of schedules entirely devoted to Gannets at some of the more prominent stations, and these, with other accounts already published, will at some future date constitute material for a very thorough treatment of the movements of the species, and their relations to the migrations of the Herring.

We therefore omit schedule notes on the Gannet at present. But lest our reporters think their work thus wasted or lost, we hasten to undeceive them, for we consider that the movements of Solan Geese, as held in relation to their known breeding areas, and the habits and distribution of the Herring (their principal food, if not indeed almost their *only* food), is of most particular economic importance. Much hinges upon it *undoubtedly*, as any one who has studied not only its habits, also the great question of our sea-fisheries, is bound to know, or he has missed the whole importance of the subject.

ARDEIDÆ.—Hérons are ubiquitous, even in the "Remoter Isles," and even where they do not breed. Their regular occurrence along and over *all* our coasts, at *all* seasons, and independent of breeding stations, makes statistics of a value difficult to ascertain. But one thing seems quite certain, their migrations, local movements, curious presence at all points, and at all times, is *not* dependent upon the movements of *deep-sea* fishes. The Heron's food-supplies are of a much more cosmopolitan nature, and he finds that which he requires to keep him *at* all seasons, *in* all weathers, *at* all tides; and his long neck and legs must be of considerable service to him in all these varying circumstances.

*Report.—March.*—7th, one Heron (N.W., clear) on lighthouse of Pentland Skerries.

*April.*—Not a record anywhere.

*May.*—Two Herons at Pentland Skerries on 17th flying about lighthouse. [Were they *old* or *young*?]

*June.*—*Blank.*

*July.*—Scarcely more so. “Three Herons, on the 4th of July, circled around the rocks of Pentland Skerries about 3.30 P.M.—the wind light S.—and flew away again to the west.”

*August.*—At the same place (which either has special attractions, or specially careful recorders—we incline to the latter), on the 26th, two Herons “sat upon the island;” S.E. haze.

*September.*—Five Herons—again at the same place—appeared; and three on the 24th.

*October.*—Two Herons sat on the rocks of the same isle on the 2d, after encountering a fresh N. wind and cloudy sky.

*November.*—One Heron, at 1.30 A.M., was seen at the same favoured isle, but flying *north* over the island; wind light N.W., and cloudy sky.

ANATIDÆ.—*Wild Ducks: Eider Ducks: Widgeon* or *Wild Duck? Teal* or *Widgeon?* “*Wild Geese:*” *Golden Eye.*

*March.*—20th, at Pentland Skerries, two Duck; and on 28th, two. (Wind fresh S. first day, and N.W., clear, next.)

*April.*—10th, at Pentland Skerries, several Eider Ducks.

*August.*—26th, at Pentland Skerries, five or six at noon.

*N.B.—September.*—27th, Eider Duck at N. Ronaldshay, *arrived*; old and young stay all winter. Again on 11th, at Pentland Skerries, Eider Ducks appeared in a flock swimming round island—N.W., clear; and on the 14th—same station—“Teal or Widgeon” [probably Teal.—J. A. H.-B.] arose off a loch.

*October.*—A “dark-coloured Duck” seen at Noss Head (?)—wind N.N.E., and sleet; and “*Wild Geese*” in a string on 17th flying N. at noon past Inchkeith in the Firth of Forth.

*November.*—A few single records, 2d, 3d, 21st, and 23d, at N. Unst. Wind in order, S.E. gale. Do., E. breeze, S.S.W. breeze.

COLUMBIDÆ.—*September.*—“Common Pigeon” on 3d at Bell Rock; E., fresh breeze. [Was this a “Dooket Doo” frae Fife?—J. A. H.-B.]

PROCELLARIIDÆ.—*August.*—A “rush” of Petrels at N. Unst at the glass [or only perhaps the local birds lured to the glass

by special atmospheric causes. The Storm Petrel winters at N. Unst in their burrows there, and may be said never to be absent from the neighbourhood.—J. A. H.-B.] There seems to have been, however, unusually large movements of the Petrels, and W. Nichol remarked upon it in one of his letters. Also in *September*, and less so in *October*.

RALLIDÆ.—Corn Crake.—*May*.—10th, at N. Ronaldshay, heard for the first time this year, and at Pentland Skerries on 16th, “arrived three days earlier than usual!”

*September*.—21st, one at Pentland Skerries, 3 P.M.; light N.W., cloudy.

CHARADRIIDÆ.—There is really little to be learned from the accounts of movements of this family. Oyster-Catchers are always locally present, so almost are Golden Plover.

Entries of Plovers and even of Oyster-Catchers are very few and far between, and the records of *Lapwings* add little to our *data*. Ringed Plover receive a few notices.

SCOLOPACIDÆ.—The Woodcock is always interesting, so we take him in detail. It is a curious circumstance that there is scarcely an entry in the Report—or at most only two or three. Thus:—

Never appeared till *November*:—on the 1st, two (“*later than last year*”) found benighted in a S.S.E. gale with rain at Pentland Skerries, and the other next day. Again on the 11th, one; wind N.W., cloudy; and one at N. Ronaldshay; light E., and clear.

*December*.—Only three entries—10th, 12th, and 16th, at Pentland Skerries and at *Dunnet*. Three birds.

Snipe, equally scarce with the last. One entry in March, and none again till 3d of November, and no more afterwards.

Curlew has many entries, yet not so many as in 1886; but the Curlew can only be considered as a very partial migrant, and entries are mostly of local interest only.

We do not repeat the comparative tables given under Curlew, Woodcock, Snipe, and Jacksnipe, which we gave in 1886 Report (8th Report, p. 24).

Of Redshanks, Sandpipers, Dunlins, there are few entries of any value in working out our subject, and these are almost entirely from N. Unst and Pentland Skerries in autumn. The

Dunlins arrived at Pentland Skerries at their breeding haunts on 29th April.

LARIDÆ.—*April*.—Numbers of Kittiwakes all day, at Pentland Skerries, on 30th April.

*May*.—Numbers of Kittiwakes and Gulls on 1st at N. Ronaldshay; again numbers on Pentland Skerries on 29th, and Black-Backed Gulls on 26th. Terns arrived at Pentland Skerries on 12th April. [*Note*.—Both Arctic and Common Terns breed on the Pentland Skerries.—J. A. H.-B.]

*July*.—Terns left Pentland Skerries on 27th, “which is earlier than usual.” Gulls still seen about the Rock at N. Ronaldshay this month.

*August*.—One Skua, “rare,” flying E.; seen at Pentland Skerries on 3d. Five or six other entries of Gulls, Herring Gulls, Black-Backed Gulls, and Kittiwakes, all at Pentland Skerries.

*September*.—Four entries of Gulls, all at Pentland Skerries, and in great numbers; immense numbers on 16th, 18th, and 25th.

*October*.—At N. Unst, flock of young Kittiwakes (wind N.W.) flying W. on 21st, and again on 22d. A number of Gulls at Pentland Skerries on 16th and 24th.

*December*.—Two Ivory Gulls at N. Unst (W., strong breeze) on 2d. Two Iceland Gulls at N. Unst (N.W., and snow) on 10th.

PROCELLARIIDÆ.—Petrels.—*August*.—One on 17th and one on 23d at Pentland Skerries at night; struck, not killed. This appears to be the only record. They winter upon N. Unst as also, no doubt, at many other stations.—(See forthcoming volume upon the “Vertebrate Fauna of the Outer Hebrides,” where winter colonies of Petrels, etc., will be spoken of more fully.)

ALCIDÆ.—Few entries as compared with most years.

*January 1887*.—At N. Unst flock of Marrots; “soon arrived this year;” S.S.W., strong breeze, and hail. “Rare to see any so soon.”

*February*.—At N. Unst on 19th, Tysties, a flock of, “first arrival early;” and on 14th, four Tysties arrived at Noss Head, where, we are informed by the light keeper, *a few breed!* On 15th, at same station, a great many Marrots and Razorbills arrived.

*March.*—7th, at Noss Head, Guillemots, “many more arrived to-day, and all day;” and on 1st, “many arriving all day.”

*April.*—3d, at Pentland Skerries, Puffins arrived during the day, “earlier than last year by a week.” [*Note.*—These arrival dates of rock birds are always interesting, as also are their movements at other times.]

*August.*—Guillemots seen flying E. past Pentland Skerries on 4th August, and flocks again on 6th; and by 19th, Puffins all left, and last seen were on 15th at that station.

*September.*—One Black Guillemot seen on 17th at Pentland Skerries; fresh N.W., cloudy.

*December.*—16th, at N. Unst, two young Guillemots seen; light S. breeze.

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## EAST COAST OF ENGLAND.

SCHEDULES were issued to thirty-four stations, lighthouses, and light-vessels on the East Coast of England, and returns have been received from thirty-one. The total number of schedules received from all sources is eighty-four.

Wings and legs have also been forwarded, representing birds killed or captured against the lanterns, from the Leman and Ower L.V., Happisburgh L.V., Spurn L.H., Cromer L.H., Kentish Knock L.V., Nore L.V., Goodwin L.V., and Hanois L.H., Guernsey. Altogether twenty-eight wings have been forwarded with labels and dates of occurrence.

East Coast stations included in this report are :—

Longstone L.H. . . . .	Thomas O. Hall.
Farn, Inner, L.H. . . . .	Thomas H. Cutting.
Coquet Island L.H. . . . .	William Evans.
Tees, 5 Buoy L.V. . . . .	Henry Harbord.
Whitby High L.H. . . . .	John Odgers.
Flamborough Head L.H. . . . .	Charles Hood.
Spurn L.H. . . . .	Annie Rose Smith and J. B. Smith.
Spurn L.V. . . . .	<i>Nil.</i>
Outer Dowsing L.V. . . . .	W. Stock and A. Bearling.
Inner Dowsing L.V. . . . .	William King.
Llyn Wells L.V. . . . .	T. Ditcham.
Dudgeon L.V. . . . .	J. F. Warder and J. Harrison.
Hasbro' L.V. . . . .	John Nicholas and B. V. Darnell.
Hasbro' L.H. . . . .	<i>Nil.</i>
Hunstanton L.H. . . . .	W. Westmoreland.
Cromer L.H. . . . .	C. B. Comben.
Winterton L.H. . . . .	John Watson.
Leman and Ower L.V. . . . .	R. Cook and John Bowen.
Newarp L.V. . . . .	Charles Cork and George Hull.
Cockle L.V. . . . .	C. Perfrement and E. Cole.
Corton L.V. . . . .	J. Dove and J. H. Johnson.
Languard L.H. . . . .	Owen-Boyle.
Shipwash L.V. . . . .	William Barker and D. Dale.
Galloper L.V. . . . .	P. Frost and F. Page and C. Rafe.
Kentish Knock L.V. . . . .	W. R. Carter and William Rees.

Swin Middle L.V.	.	Samuel Pender.
Tongue L.V.	.	<i>Nil.</i>
Nore L.V.	.	Wm. Littlewood (wings).
Goodwin L.V.	.	Thomas Rees.
Gull L.V.	.	Francis Harvey and J. Jenkins.
South Sand Head L.V.	.	F. G. Foreman.
East Side L.V.	.	W. Nicholls and E. le Gallais.
Varne L.V.	.	William Kingsford.
Hanois L.H., Guernsey	.	Charles Williams.

In addition to the observations supplied by the lightkeepers, notes have been incorporated, directly or indirectly communicated by Messrs T. H. Nelson, Redcar (12 schedules); C. Donald Thompson, Seaton-Carew; Matthew Bailey, Flamborough; W. Eagle Clarke, Philip Lawton, W. Cecil Scott, and F. D. Power, The Spurn; J. H. Gurney, Jun., North-East Norfolk; O. V. Aplin, Norfolk Coast; G. Smith, Arthur Patterson, Benjamin Dye, and W. P. Pycraft, Yarmouth; also from Mr G. H. Caton Haigh, Grainsby Hall, notes from Tetney and North-East Lincolnshire; and Lord Clifton, Dumpton Park, Ramsgate, from Isle of Thanet.

Notes also bearing on migration have been utilised from the *Naturalist*, the *Zoologist*, and the natural history column in the *Field* newspaper.

## DIARY OF MIGRATORY MOVEMENTS ON EAST COAST OF ENGLAND, 1887.

### JANUARY.

JANUARY 1st.—<sup>1</sup>*Flambro'* L.H., several flocks of Guillemot about the cliffs. *Newarp* L.V., nineteen Crows to W., 4 P.M.

JANUARY 4th.—*Tees* L.V., large flocks Dunlin, Whimbrel, Curlew, one Red-throated Diver, and eighteen Shelduck. (N.W., light.) *Hunstanton* L.H., thousands of Larks, 9.30 A.M. to 3 P.M., to S.; also Lapwings. (Wind S., B. C.) *Languard* L.H., "owing to last night's heavy weather, thousands of birds—Thrushes, Blackbirds, Starlings, Fieldfares, Linnets, Skylarks,

<sup>1</sup> The sequence of the stations is from north to south. The weather reports at the various stations are given in brackets. The symbols are those which have been adopted in the *Beaufort Scale*. The force of the wind ranges from 0 to 12.



and Chaffinches—remained about the lighthouse all day. Large flocks also passing over to the Essex Shore." *Swin Middle* L.V., flock of Larks to E. (S. by E., 3; snow.)

JANUARY 5th.—*Farn* L.H., Woodcock on island, 3.30 P.M. *Tees* L.V., large flocks of Larks, four Redshank, two Fieldfares. (N.W.; snow.) *Spurn* L.H., great number of Larks, Thrushes, Fieldfares, Redwings, and several Crows to S. Many dead outside in the bents. (S.E., 6; snow.)

JANUARY 6th.—*Farn* L.H., Golden Plover, Redwing, Thrush, and several Curlew. (N.E., 3; snow.) *Whitby* L.H., Fieldfare, 6 A.M., caught at lantern. (W., 3; o. s. m.) *Spurn* L.H., the same as on 5th. (W.S.W., 4.) *Outer Dowsing* L.V., one Thrush and a Lark, 9 A.M., to W. (o. m.) *Newarp* L.V., number of Larks to W., 2.30 P.M. *Yarmouth*, Pochard, Widgeon, and Tufted Ducks; frost: Fieldfares and Redwings, vast flocks to S. *Shipwash* L.V., Titlark dead on deck; one Lark and a Thrush on board. (N.N.W.) *Swin Middle* L.V., a few Larks and Starlings at various times, almost all directions.

JANUARY 7th.—*Outer Dowsing* L.V., Fieldfares and two Starlings on board. Six Wild Ducks to S.S.W. *Cromer* L.H., eighteen Red-throated Divers fishing along shore. *Dudgeon* L.V., Titlarks at night; five killed. (S.E., 3.) *Swin Middle* L.V., flock of Larks, 1.30 P.M., to W. *Hanois* L.H. (Guernsey), four Goldfinches, 10.30 A.M., to E. (W.N.W., 4.)

JANUARY 8th.—*Yarmouth*, Thrushes, Blackbirds, Redwings, Larks—market stalls glutted.

JANUARY 9th.—*Farn* L.H., Golden Plover, Thrush, Redwing, one Fieldfare, one Blackbird on island. (N., 1.) *Hasbro'* L.V., eight Skylarks, 3 P.M., caught alive. (S.E., 2; o. m.)

JANUARY 12th.—*Farn* L.H., several Thrush, Starlings, two Blackbirds, and one Fieldfare. (W., 2.)

JANUARY 15th.—*Yarmouth*, Peregrine Falcon.

JANUARY 19th.—*Cromer* L.H., Thrush (4 A.M.) killed. *Cockle* L.V., stragglings Skylarks, one to six at a time, at intervals, E. to S.W. and W. on 19th, and to 26th inclusive. (W. and S.W., 3.) *Nore* L.V., Skylarks, 8 P.M. to midnight, round lantern; also night of 18th. (W.S.W., 4.)

JANUARY 21st.—*Redcar*, many Larks and Lapwings to W. during morning. (W., strong.)

JANUARY 22d.—*Redcar*, several flocks Lapwing, 3 P.M., a mile

at sea to W. (W.N.W., strong.) *Swin Middle* L.V., about fifty Larks during night; eight killed. (W., 3.)

JANUARY 23d.—*Swin Middle* L.V., Larks in flocks, 50-70, to W.

JANUARY 24th.—*Galloper* L.V., a few Larks round lantern all night. (S.W., 4.) Also on 25th. *Hanois* L.H., flock Larks, 4 A.M., flying round light. (S., o. M.)

JANUARY 26th.—*Farn* L.H., several Thrush and Skylarks. (W.S.W., 4.) *Redcar*, three flocks of Larks at 11.30 A.M. from sea, going W.

JANUARY 27th.—*Cromer* L.H., a few Larks and Redwings, 2.30 A.M., at lantern. (S.W., 4; M. R.)

JANUARY 28th.—*Spurn* L.H., Larks, 2 A.M., one killed; Chaffinches and Sparrows, 9 A.M. (S.W.; mist.) *Galloper* L.V., Larks and Starlings all night; six Larks and two Starlings killed. (S.W., 4.) *Swin Middle* L.V., Larks and Redwings, 11.30 to sunrise; eight Redwings killed. (S.W., 2.)

JANUARY 29th.—*Galloper* L.V., hundreds of Larks all night; sixty killed. (S.W., 3; o. M.) *Swin Middle* L.V., Larks and Redwings in flocks, 50-70, 8 A.M. to W. (W.S.W., 3.)

## FEBRUARY.

FEBRUARY 3d.—*Cromer* L.H., Larks, Thrushes, and Redwings, midnight to 3 A.M., round lantern. (E.; clear.)

FEBRUARY 5th.—*Newarp* L.V., ten Crows to W., 8 A.M. (S.W., 3.) *Languard* L.H., Large flock Wood Pigeons, 3.40 P.M., to N.

FEBRUARY 7th.—*Farn* L.H., two Fieldfares, several Thrush. (S.S.W., 3.)

FEBRUARY 12th.—*Longstone* L.H., Guillemot assembled at breeding stations, earliest date remembered. *Cromer* L.H., Thrushes, 10 P.M. to midnight. (N.E., 3; drizzle.)

FEBRUARY 16th.—*Languard* L.H., Bearded Tit, 7.40 A.M.; very tame; left at noon. (S.W., 3.)

FEBRUARY 17th.—*Whitby* L.H., a few Gulls at daylight arrived at breeding quarters. *Languard* L.H., a number of Chaffinch, Sparrows, and Blackcaps (*Parus major?*), all mixed pitched here 9 A.M., and remained to sunset. (N., 2; B. C. M.)

FEBRUARY 22d.—*Cromer* L.H., Larks, Starlings, from 0.30 to 3 A.M.; Fieldfares during day. *Languard* L.H., 300 Gulls to S.

(W.S.W., 3.) *Shipwash* L.V., Lark dead on deck, 7 A.M. (W.S.W.)

FEBRUARY 23d.—*Cockle* L.V., thirty Crow circling high, 7 A.M., returned to W. (W.S.W., 4 and 5.) *Shipwash* L.V., 100 to 200 Rooks, 8.15 A.M., S.E. to N.W. (S.W.; fresh.) *Swin Middle* L.V., thousands of Ringed Plover to S.

FEBRUARY 24th.—*Cockle* L.V., two flocks Crows and Jackdaws, 7 A.M., high, W. to E. (S.W., 5.) *Shipwash* L.V., thirty Crows, 8 A.M., to E. from W. (S.W.; fresh.) *Galloper* L.V., Larks at lantern at night; five Larks and two Starlings killed. (S.W., 5.)

FEBRUARY 25th.—*Whitby* L.H., Blackbird ♂, 5 A.M., caught at lantern. (W.S.W., 5.) *Shipwash* L.V., Thrush, 6.30 A.M., dead on deck. *Cockle* L.V., fourteen Solan Geese, 6.50 A.M., going S. to N. (W.S.W., 4.)

## MARCH.

MARCH 1st.—*Longstone* L.H., breeding place of Guillemot covered with birds; very fine weather. *Spurn* L.H., four Blackbirds. (W.S.W., 3.)

MARCH 3d.—*Spurn* L.H., several Thrushes and Blackbirds to S. (W.S.W., 2.) *Cromer* L.H., Redwings and Larks, 12.30 to 2.30 A.M.; Starlings and Blackbirds during day. (S., 4.) *Galloper* L.V., a few Larks passing over to France, noon till dark. (Thick fog.) *Hanois* L.H., small flock Starlings, 5 A.M.; several struck. (E., 1; B. C. M.)

MARCH 4th.—*Newarp* L.V., six Starlings and three Chaffinches on board all night. (W.S.W., 1.) *Shipwash* L.V., small Lark. (N.N.W., light; dense fog.)

MARCH 5th.—*Farn* L.H., two Blackbirds, 11 A.M. (S.E.) *Outer Dowsing* L.V., about 200 Black Crows flying round vessel, 11.30 A.M. (S.E., o. M.) *Newarp* L.V., two Crows and four Starlings to W. (E.N.E.) *Shipwash* L.V., Starling at daylight (dense fog). One "Ground" Lark flying round, 8 A.M. till noon; two Starlings caught on board.

MARCH 6th.—*Farn* L.H., Blackbird and Ring Ouzel. (S.W.; fog.) *Outer Dowsing* L.V., two Chaffinches, 9.45 A.M. (S. by E.; fog.)

MARCH 7th.—*Spurn* L.H., Black and Grey Crows to S. (E.N.E.,

2.) *Outer Dowsing* L.V., three Starlings to W.; two Crows to S.W.

MARCH 9th.—*Newarp* L.V., large flock Crows to W., 9 A.M. (W.N.W., 3.) *Swin Middle* L.V., Pied Wagtail, 5 A.M., on deck. *Hanois* L.H., Lapwings and Wagtails, 4 A.M. (E., 1; O. M.)

MARCH 10th.—*Galloper* L.V., eighteen Black Crows, 10.30 A.M., to E.S.E.

MARCH 11th.—*Farn* L.H., four Gannet fishing near island. (N.E., 6.) *Hanois* L.H., about 100 Lapwings, 2 P.M., to N.E. (N., B. C.)

MARCH 12th.—*Farn* L.H., two Snow Bunting. *Languard* L.H., Skylarks, Linnets, and House Sparrows, 7.20 A.M., to W. (N.E., 6.)

MARCH 14th.—*Languard* L.H. (night, 13th to 14th), large numbers of Wild Fowl passing over to W. (W.N.W., 2.)

MARCH 19th.—*Cockle* L.V., 80 Crows and Daws, 10.30 A.M., very high to E. (W., 2.)

MARCH 21st.—*Outer Dowsing* L.V., two Mountain Sparrows, 5 P.M., flying about vessel. *Yarmouth*, Redshanks, first arrival, 7 A.M. (S.W., light.) *Cockle* L.V., many Crows and Daws, sunrise to noon, W. to S.E., very high. (W.S.W., 1.)

MARCH 22d.—*Hanois* L.H., great many Lapwings, 7 A.M., to N.E. (W., B. C. M.)

MARCH 23d.—*Farn* L.H., several Gannet. (W.N.W., 5.) *Whitby* L.H., two Wagtails, 6 A.M.; the first seen. *Yarmouth*, fourteen Golden Plover, 3 A.M., to W.; some with black breasts.

MARCH 24th.—*Farn* L.H., three Blackbirds, 9 A.M. *Spurn* L.H., seventy Grey Crows to S., 7 A.M. (S.W., 5.)

MARCH 25th.—*Farn* L.H., two Blackbirds. (W.N.W., 3.) *Languard* L.H., Kingfisher, 7 A.M., to N.E.

MARCH 26th.—*Tees* L.V., five Wagtails. (W.) *Whitby* L.H., several Blackbirds, Wagtails, Titlark, and Robins, 10 A.M., and two ♀ Blackbirds, 11 P.M., at lantern. (W.N.W., 4.) *Yarmouth*, Garganey Teal shot. *Galloper* L.V., a few Larks all night.

MARCH 27th.—*Outer Dowsing* L.V., several Thrushes, 3 A.M.; two struck lantern. (S.W. by S., O. D. R.) *Hanois* L.H., great many Lapwings to N.E. at 3 P.M. (W., B.)

MARCH 28th.—*Languard* L.H., hundreds of Oxbirds, 3 P.M., on beach. (N., 3.) *Galloper* L.V., two Larks. (N.E., 6.)

MARCH 29th.—*Farn* L.H., Great Crested Grebe, great numbers

of Guillemot and Puffin. *Galloper* L.V., quantity of Starlings, 9 P.M., till sunrise; eleven killed. (N.E., 3.)

MARCH 30th.—*Farn* L.H., eleven Snow Bunting, 3 P.M. (S.S.E., 3.) *Longstone* L.H., Puffins seen in large numbers; earliest date by a fortnight. *Galloper* L.V., the same as on 29th.

MARCH 31st.—*Tees* L.V., twenty Wagtails flying S.E. to N.W. *Whitby* L.H., one Goldcrest, 2 A.M., caught at lantern. *Cockle* L.V., many Crows and Daws during day, W. to S.E.; one Black-cap at sunset. *Thanet*, Chaffinches; Brambling, one.

#### APRIL.

APRIL 1st.—*Farn* L.H., Great Northern Diver (N.N.E., 7) flying N.

APRIL 2d.—*Cromer* L.H., Starlings and Thrushes, 12.30 to 2.30 A.M., round lantern.

APRIL 3d.—*Galloper* L.V., Starlings midnight to daylight. (N.E., 4.)

APRIL 5th.—*Spurn* L.H., Four Redbreasts, 9 A.M. (W.N.W., 4.) Several Swifts, 6 P.M., resting on windows and remaining all night. *Great Cotes*, Wheatears, very many, all males.

APRIL 8th.—*Hunstanton* L.H., Wheatear. (Wind E.)

APRIL 11th.—*Farn* L.H., two Wheatears and one Fieldfare. (S., 4.) *Galloper* L.V., Swallow, 7 A.M., to N.W. (E.N.E., 5.) *Hanois* L.H., Swallows to N.E., 10 P.M. In evening many about west end of island; also Whitethroats and Willow Wrens. (E., 4.)

APRIL 12th.—*Farn* L.H., Wagtail, 11 A.M. (N.E., 1.) *Outer Dowsing* L.V., continuous flocks Puffins and Wild Ducks, noon to 6 P.M., from N.N.W. to S.S.E. *Swin Middle* L.V., Woodcock, 9 P.M., killed. (E.N.E., 4.)

APRIL 13th.—*Outer Dowsing* L.V., the same as on 12th, 9 A.M. to 3 P.M., from N.N.W. to S.S.E.

APRIL 15th.—*Tees* L.V., eight Titlarks and five Wagtails. (N.N.E.; fresh.)

APRIL 16th.—*Farn* L.H., small birds and Wheatears, midnight. (S.W., 1; o. m.) Flying round light. *Tees* L.V., great number Grey Linnets to N.W.

APRIL 17th.—*Farn* L.H., several Wheatears and Skylarks on

island. (W., 3.) *Spurn* L.H., large flock Swifts to S. (S.S.E., 4.) *Yarmouth*, Common Sandpiper, 7 A.M. (N.E.; fine); shot. *Thanet*, Redstart first seen.

APRIL 19th.—*Cromer* L.H., Swallow, 10.15 A.M., to W.N.W. *Thanet*, Chiffchaff, first. (Blackcap on 18th.) *Varne* L.V., about a thousand Black Ducks, 9 A.M., W. to E.

APRIL 20th.—*Spurn* L.H., three Snow Buntings, 10 A.M.

APRIL 21st.—*Farn* L.H., Wheatears all day on island. *Yarmouth*, Swallow, 3 P.M. (W.; light.) *Shipwash* L.V., Swallow, S.E. to N.W. (E. by N., F.) One Flycatcher on board. *Hanois* L.H., Swallows passing, 11 P.M. (W., 3; B. C.)

APRIL 22d.—*Whitby* L.H., one Swallow, 2 P.M., to N. *Thanet*, Whitethroat, first seen.

APRIL 23d.—*Tees* L.V., one Golden-Crested Wren came on board, 5 A.M.

APRIL 24th.—*Longstone* L.H., Large Tern (*S. cantiaca*), first heard. *Hunstanton* L.H., one Swallow to S. *Thanet*, Ring Ouzel, first; Willow Wren and Cuckoo.

APRIL 25th.—*Whitby* L.H., Ring Ouzel, 7 P.M. (W., 3.) *Thanet*, Swallow, first.

APRIL 26th.—*Cromer* L.H., large flock Chaffinches to W. (N.E., 3; clear.) *Thanet*, Whinchat, one.

APRIL 28th.—*Tees* L.V., one Swallow, 8 A.M., to N.W. [W.] *Redcar*, about a dozen Gannets to E. *Cromer* L.H., a few Wheatears. *Shipwash* L.V., Chaffinch on board; several round lantern all night. *Thanet*, Yellow Wagtail, first.

APRIL 29th.—*Outer Dowsing* L.V., one Redwing. *Hunstanton* L.H., Cuckoo. Several Flycatchers and Whitethroats, 1 A.M. (Wind E., 2; o. R.) *Shipwash* L.V., Flycatchers, several flocks, 6 to 8 A.M., S. to N. (E.N.E. to N.) *Swin Middle* L.V., hundreds of Flycatchers, midnight to 4 A.M.; several killed. (E.N.E.) *Thanet*, Ring Ouzel, three together. [A pair nested in a holly, but the nest, with four eggs, was destroyed May 6th, the old birds remaining to 16th, and then left.] Forty or fifty Redstarts; Whitethroats, twenty to thirty; Lesser Whitethroats, two; Chiffchaff, about three hundred flitting about on pasture land; Wood Wren, two; Cuckoo, six.

APRIL 30th.—*Farn* L.H., Sandwich and Arctic Tern, 5 A.M. (N.E., 3), seen and heard flying over nesting places.

## MAY.

MAY 2d.—*Flambro'* L.H., two Swallows seen. Guillemots and Puffins in great numbers. *Cromer* L.H., Turtledove, 6.30 A.M., to W. *Yarmouth*, Whimbrel, a few. *Hanois* L.H., "a few Swifts round light towards daylight. (E, 2; 0. M.) A great quantity of small birds after daylight—Whitethroats, Blackcaps, Wheat-ears, Willow Warblers, Wrens; also two Stints, and what I thought a few Cuckoo."

MAY 3d.—*Hunstanton* L.H., hundreds of Swallows all day to S. (S.W., 2.) *Yarmouth*, Avocets, 5 A.M.; six seen, one shot.<sup>1</sup> *Languard* L.H., one Robin and two Wrens, 6 A.M.; remained to noon, and went E.S.E. *Shipwash* L.V., four Flycatchers, three Pigeons, four Swallows, at various times, S.E. to N.W.; and Goldfinches, 10 A.M., with one Yellow Hammer. (Variable, fog.) *Thanet*, Sedge Warbler, first.

MAY 4th.—*Thanet*, Spotted Flycatcher, and to 11th. Pied Flycatcher on 1st—fine old male.

MAY 5th.—*Spurn* L.H., four Lesser Tern, 10 A.M. *Outer Dowsing* L.V., one Chaffinch, 11 A.M. (E., 0. M.) *Yarmouth*, Cuckoo.

MAY 6th.—*Yarmouth*, Turnstone. Flock of six Turtledoves. *Isle of Thanet*, Fieldfare, last seen; one bird.

MAY 7th.—*Farn* L.H., two Swallows. (S., 3.) *Cromer* L.H., Swift to S.W.

MAY 8th.—*Farn* L.H., hundreds of Tern, 4 to 7 A.M. (W., 1), about nesting places. Cuckoo. *Longstone* L.H., Small Tern (*S. macrura*), first heard. Whimbrel, one seen. *Hunstanton* L.H., Swift to S.

MAY 9th.—*Farn* L.H., three Swallows; one Redstart. (W.N.W., 5.) *Longstone* L.H., two Whimbrel to E.

MAY 11th.—*Longstone* L.H., five Whimbrel to E. at 5.30 A.M. The flight of Gannet is very small this year.

MAY 12th.—*Great Cotes*, Godwit, Ringed Plover, Dunlin, Whimbrel, and Curlew on foreshore. *Yarmouth*, Sanderlings, 4 A.M.; number on beach.

MAY 13th.—*Redcar*, Whimbrel flying E. *Yarmouth*, Sanderlings and Knots, 4 A.M.

<sup>1</sup> Cannot something be done to check this indiscriminate slaughter of rare visitors during the close time? To all intents and purposes the Act is a dead letter in Norfolk.—J. C.

MAY 14th.—*Yarmouth*, Terns, not many to this date. “In the autumn Terns keep to the coast-line, but in the spring they follow the inland waters, crossing Breydon and the Broad district” [A. P.]. Small flocks of Sanderlings, 7 A.M.

MAY 17th.—*Redcar*, one flock Terns to E. (Wind N.; light.) *Spurn* L.H., several Swallows, 9 A.M. *Yarmouth*, Curlew, 5 A.M.; Turnstone, several; fresh arrivals to-day. (S.W.; strong.) *Languard* L.H., two Common Wrens, 2.20 P.M.; left at sunset. *Thanet*, Grey Crow last seen, two. (Garden Warbler, first on 15th.)

MAY 18th.—*Yarmouth*, Turnstones, two Godwits in red plumage, one Lesser Tern, fifteen Herons. (S.W.) *Shipwash* L.V., two Swallows, S.S.E. to N.N.W., and at intervals to *June 4th*, travelling S.E. to N.W.

MAY 20th.—*Spurn* L.H., Cuckoo, 3 P.M. (N.N.W., 3.) *Cromer* L.H., large number Chaffinches all day going inland. (E.S.E., 3.)

MAY 21st.—*Cockle* L.V., Waterhen (midwatch), struck and fell on deck. (S.W., 5.)

MAY 22d.—*Cromer* L.H., four Turtledoves, 6 A.M., pitched on the hill, then to S.W.

MAY 24th.—*Spurn* L.H., small flock of Common Wren, 3 P.M. (N.N.W., 3.) *Dudgeon* L.V., three Curlews N. to S. *Varne* L.V., ten Swallows, 9 A.M., S. to N.

MAY 25th.—*Spurn* L.H., several Whimbrel flying round, 11 A.M.

MAY 27th.—*Cromer* L.H., flock Sand Martins to S.W.

MAY 28th.—*Redcar*, about fifty Sanderlings on east sands. (N.E.; strong.)

MAY 30th.—*Farn* L.H., Wheatears and Flycatchers, midnight (S., 3; fog), round lantern. *Yarmouth*, three Swifts.

MAY 31st.—*Farn* L.H., Red-backed Shrike, 10 A.M. (S.E., 3), on island. *Yarmouth*, Lesser Tern, three to E.

## JUNE.

JUNE 1st.—*Whitby* L.H., Turtle Dove, 8 A.M. (E.), shot near lighthouse.

JUNE 2d.—*Yarmouth*, Black Terns, 7 P.M. (Strong N.E.) Grey Plover, one.

JUNE 3d.—*Yarmouth*, Sanderlings, four seen on beach, 5 A.M.



JUNE 5th.—*Tees* L.V., two Wheatears to N.W. *Northrepps*, Grey Crow (without a tail).

JUNE 7th.—*Cromer* L.H., number of Chaffinches at daylight (W.N.W., 4); none striking. *Shipwash* L.V., two Blackbirds flying round ship, 5 A.M. (S.W., light.)

JUNE 8th.—*Redcar*, fifteen Geese to E. *Shipwash* L.V., Linnet and Swallow, the former going S.E. to N.W.

JUNE 9th.—*Redcar*, twelve Sheldrake to N.W. Large flocks of mixed birds, Knots, Sanderlings, etc., on sands E. of Redcar at 3 A.M.

JUNE 13th.—*Dudgeon* L.V., one Blue Rock Pigeon; came on board; left again, going S.W. Two Black Crows.

JUNE 14th.—*Cromer* L.H., a few Chaffinches, 12.30 A.M. to 2.30 A.M. (N.E., 1), round lantern. *Cockle* L.V., two Swallows, 8 P.M., on board quite exhausted. (S.E., 2.)

JUNE 29th.—*Farn* L.H., one hen Blackbird, midnight (S., 3), against lantern.

## JULY.

JULY 2d.—*Farn* L.H., several young Thrushes and Blackbirds, sunrise, on island. (W.)

JULY 6th.—*Langward* L.H., large flocks of Swallows to W., 9.15 A.M. (N., 3; B. C. M.)

JULY 11th.—*Farn* L.H., over one hundred Golden Plover, 2 P.M., high to W. *Whitby* L.H., young Gull first seen on wing. *Langward* L.H., large number of Martins during day to S.W. (W., 4; B. C. M.)

JULY 14th.—*Redcar*, twelve Whimbrel on salt scar, 3.30 P.M. (W. light.)

JULY 15th.—*Spurn* L.H., Curlew and Godwit going S., 2 P.M. (S.E., 4.)

JULY 25th.—*Spurn* L.H., five Black Terns, 3 P.M. (S.E., 4), along with Lesser Terns. *Leman and Ower* L.V., four Starlings, 6 A.M., went W. at 9.30 A.M. (N., 2.)

JULY 26th.—*Cromer* L.H., large number of Crows all day, E. to W. (W.S.W., 3.)

JULY 27th.—*Redcar*, three or four Turnstone and a few Knot.

JULY 30th.—*Leman and Ower* L.V., great flock Lapwing to S., 3 P.M. (N.E., 3.)

## AUGUST.

AUGUST 1st.—*Farn* L.H., flocks of Turnstone and some Redshank about rocks. *Redcar*, several Whimbrel; Shearwaters at sea. *Yarmouth*, Dunlin—several young birds on beach; Redshanks. Godwit, one.

AUGUST 2d.—*Redcar*, numerous Sanderlings, a few Whimbrel, two flocks of Lesser Tern. *Cromer* L.H., great number young Starlings. *Leman and Ower* L.V., ten Sparrows, 3 A.M.; three killed. (W.N.W., 3; o. m.)

AUGUST 3d.—*Tees* L.V., large flocks Curlew and Whimbrel, some Stints, Grey Plover, and Dunlin. *Redcar*, three Manx Shearwaters at sea; one Black Tern. (E., light.) *Leman and Ower* L.V., one Brown Hawk, went after small birds.

AUGUST 4th.—*Farn* L.H., Roseate Tern, 6.30 P.M., one seen fishing near island. *Redcar*, Shearwaters fairly common at sea for several weeks past. Guillemots and Razorbills to S.E., during past week also. *Cromer* L.H., flock young Larks, 1 A.M., round lantern (misty); none struck.

AUGUST 5th.—*Farn* L.H., several Blackbirds at daylight on island. (S.S.W., 1.) *Spurn* L.H., Wheatears, 2 P.M. *Leman and Ower* L.V., five Skylarks, midnight; one killed.

AUGUST 6th.—*Spurn* L.H., flock of Sanderlings, 10 A.M. (S.E., 3.) *Great Cotes*, Curlews, very many.

AUGUST 7th.—*Farn* L.H., two Skuas chasing Tern. *Flambro'* L.H., Guillemots left breeding stations. *Leman and Ower* L.V., great numbers of Puffins all day about ship.

AUGUST 9th.—*Tees* L.V., Golden-Crested Wren came on board, 10 A.M. (N.W., strong.)

AUGUST 10th.—*Spurn* L.H., Turnstone and Sanderlings, Arctic and Common Terns. *Flambro' Head*, Skuas and Manx Shearwaters very numerous.

AUGUST 13th.—*Farn* L.H., several Blackbirds and Thrush (N.E., 4) on island. Roseate Tern, shot.

AUGUST 14th.—*Farn* L.H., several Blackbirds and Thrush all day; several Skuas chasing Terns. *Leman and Ower* L.V., five Swans N.W. to S. *Yarmouth*, Dotterel, one shot on North Denes.

AUGUST 15th.—*Redcar*, a few Knot; Bar-tailed Godwit. (E.)

*Spurn* L.H., Bar-tailed Godwits, 10 A.M. *Cromer* L.H., Cuckoo, 1.30 A.M. (misty), round lantern.

AUGUST 16th.—*Redcar*, about twenty Curlew Sandpiper. (E., light.) *Yarmouth*, large flock Curlew at Breydon.

AUGUST 17th.—*Redcar*, about 100 Curlew, high to N.W.; Whimbrels to N.W., and on 15th and 16th also. *Spurn* L.H., several Curlew, three Redshank, 11 A.M. (N.) *Leman and Ower* L.V., two Grey Crows at 3 A.M. to W. (E.S.E., 3.)

AUGUST 18th.—*Redcar*, several flocks of Knot, Godwit, and Whimbrel to N.W. (Wind N.E., light.) *Great Cotes*, large flock of Geese at 10 P.M. *Cromer* L.H., several young Larks, 2.30 A.M. (W., clear.)

AUGUST 19th.—*Farn* L.H., Wheatears and Blackbirds all day on island. *Redcar*, Curlew Sandpiper, about twenty, to N.W.; Teal, Widgeon, one Wheatear. *Flambro'* L.H., Wheatears in the field during day. *Swin Middle* L.V., a few Flycatchers, 9 to 11 P.M. (S. by E., 3.)

AUGUST 22d.—*Spurn*, Wheatears, first observed; Lesser Terns. *Hunstanton* L.H., number of Swallows all day. (E., light.)

AUGUST 23d.—*Farn* L.H., several Blackbirds all day about island; one Heron to S. *Redcar*, Common and Arctic Terns abundant at sea. *Spurn*, Merlin, Curlew Sandpiper, 5 to 6; Green Sandpiper. *Swin Middle* L.V., scores of Tern all day about vessel.

AUGUST 24th.—*Redcar*, Whimbrel and Knots to N.W. Five Richardson's Skuas; one shot—dark variety, adult.

AUGUST 25th.—*Spurn* L.H., one Chiffchaff, 10 A.M. (S.E.) Hundreds of Curlew Sandpipers and a few Little Stint; four Brent Geese; Redstart, ♀.

AUGUST 26th.—*Spurn*, Redstart and Pied Flycatcher, and Wheatears, Knot, Curlew, Whimbrel, Common Godwit, Curlew Sandpiper, Sanderling, Ringed Plover, Dunlin, Turnstone; eight Black-breasted Golden Plover; two Grey Plover in summer plumage; Green and Common Sandpipers. *Tetney*, Green Sandpiper, very numerous on the Waithe-beck.

AUGUST 27th.—*Farn* L.H., Wheatears and Flycatchers all day; Curlews, 11 P.M., calling round light. *Yarmouth*, Common Terns, first flock, 7 A.M., over Breydon. *Shipwash* L.V., Oxbird, 2 A.M., struck and killed. (S.S.E., light.)

AUGUST 28th.—*Whitby* L.H., Herring Gulls left cliff with their

young. All the afternoon large flocks of Black-backed Gulls, Black-headed Gulls, Kittiwakes, Grey Gulls, and Herring Gulls to south. *Spurn*, Pied Flycatchers, Redstarts, Whitethroats, Willow Wrens, and Wheatears. *Cromer* L.H., Wren, 2 A.M., at lantern windows. *Langward* L.H., large number Swallows and Martins, 4.30 A.M., to S.W. (S.E., 2.) *Shipwash* L.V., two Swifts, 7.30 P.M., flying round light.

AUGUST 29th.—*Spurn*, Kestrels numerous; Golden Plovers. *Cley and Blakeney*, Black Tern.

AUGUST 30th.—*Tetney*, Missel Thrush, some on "fitties." (S.W., gale.)

AUGUST 31st.—*Farn* L.H., several Redstarts, 4 P.M. (W., 2), on island. *Spurn*, Swifts numerous at noon; Curlew Sandpiper very common; one Reeve.

## SEPTEMBER.

SEPTEMBER 1st.—*Coquet* L.H., Fieldfares and Blackbirds on island. (E.N.E., 5.) *Flambro'* L.H., "Hooded" Crows. *Tetney*, Redstart, one seen; Pied Wagtails, numerous; Teal, Snipe, a few.

SEPTEMBER 2d.—*Longstone* L.H., one Grey Wagtail at 11.30 A.M., flying to land. (S. and S.S.W., rain.) *Redcar*, Little Stint, one; one flock Teal. (S.W., gale.) *Spurn*, great rush of birds; flocks of Knot in summer plumage; Little Stints in large flocks, 60 to 100 together; many Black Terns in company with the common species; the majority immature birds. (S.S.E. to S.W., gale.) *Tetney*, Whitethroat, a few in standing corn; also Sedge Warblers; about a dozen Yellow Wagtails; Linnets, large flocks; Reed Bunting, a few. *Outer Dowsing* L.V., fifty Larks, 9 A.M., to S.W.

SEPTEMBER 3d.—*Flambro'* L.H., Wheatears and Larks, 5.50 A.M., flying W. by N. *Spurn*, Eared Grebe, immature male, shot. Wild Geese to W. Only one Little Stint seen. *Outer Dowsing* L.V., three Hawks, 11.30 A.M., to N.W. *Hasbro'* L.V., one Arctic Tern alighted on deck (wing sent). *Hanois* L.H., several Gannet, old and young. (W., 4.)

SEPTEMBER 4th.—*Coquet* L.H., six Herons on island. *Outer Dowsing* L.V., three Chaffinches, 3 P.M., to S.W. from N.E. (W.S.W., 3.) *Yarmouth*, flocks of young Terns following the coast to the S.

SEPTEMBER 5th.—*Longstone* L.H., one Golden-Crested Wren, one Mountain Finch. (N.E.) *Tetney*, Wheatears, scores. *Outer Dowsing* L.V., eight Chaffinches to S.S.W. (W., 3.) *Cley and Blakeney*, White Dunlin seen; Shearwater at sea.

SEPTEMBER 6th.—*Redcar*, rush of birds—several large flocks Godwit, during morning and afternoon, to N.W. Whimbrels, the same. Grey Plover, Curlew Sandpiper, Godwit, very plentiful. One Little Stint shot. (S.W. strong.) *Spurn* L.H., four Sedge Warblers. *Great Cotes*, Redstarts on passage.

SEPTEMBER 7th.—*Spurn*, numbers of Redstarts, Common Whitethroats, and Sedge Warblers, also Willow Wrens. Knot, in immense numbers; Curlew Sandpipers, and Little Stints. Godwits very numerous. (S.W.) *Tetney*, Whinchats and Wheatears, Pied Wagtails, small flocks. Yellow Wagtails, very abundant in small flocks. *Great Cotes*, Wheatears, great many. *Langward* L.H., large number of Swallows to W., from 2.30 P.M. to sunset. *Hanois* L.H., two small flights of Turnstones and Redshanks on rocks; also a few Curlew.

SEPTEMBER 8th.—*Spurn* L.H., several Redstarts and Wrens, 9 A.M. (W., 3.) Short-Eared Owl; Manx Shearwater thrown up on beach. *Outer Dowsing* L.V., ten Larks to S.W., 2 P.M. *Cley and Blakeney*, Little Stint, many; Curlew Sandpiper, many; Shelduck, Teal, Golden Plover, Common Sandpipers, Reed Warbler, Wryneck, Oyster-Catchers, Whimbrel, Turnstone, Grey Plover, two Knot. Lesser Tern, many. *Yarmouth*, Pectoral Sandpiper shot; Curlew Sandpipers. (S.E.) *Kentish Knock* L.V., one Flycatcher, 6 P.M. Several flocks birds in distance to N.W.

SEPTEMBER 9th.—*Outer Dowsing* L.V., one Hawk and ten Black Ducks, 2 P.M., to S.W. *Yarmouth*, Terns and Grey Plover, 5 P.M.

SEPTEMBER 10th.—*Coquet* L.H., Common Snipe, 3.30 P.M. (W.S.W., 4.) *Spurn* L.H., several Swifts, 6 P.M., flying round lantern; Manx Shearwater; Grey Plover, very numerous. *Outer Dowsing* L.V., eight Larks and Chaffinch to S.S.W.

SEPTEMBER 11th.—*Spurn* L.H., large flock Knot. *Outer Dowsing* L.V., one Hawk to S.S.W. (W. by N., 5; c. v.) *Langward* L.H., large number of Swallows, 11 A.M. to 4.30 P.M., to S.W.

SEPTEMBER 12th.—*Spurn*, Peregrine Falcon; Swifts in some numbers daily. *Swin Middle* L.V., six Swallows at 6 A.M. to W.

SEPTEMBER 13th.—*Redcar*, large flocks Duck, Teal; several flocks Grey Plover, Godwits, Dunlin, Knot, Oyster-Catchers; one flock Curlew Sandpiper, all to N.W. (Gale N., rain.) *Tetney*, Pied Wagtails, numerous; Swift. *Yarmouth*, Alpine Swift, afternoon and evening, flying with about thirty Common Swifts; was subsequently shot.

SEPTEMBER 14th.—*Spurn*, Willow Wrens, Tree Pipits, and Common Whitethroats. Wood Sandpiper shot. *Cley and Blakeney*, Pied Flycatcher, four Redstarts, small arrival of Tit-larks; Curlew Sandpiper and Little Stints very numerous; Knot and Grey Plover, many; Turnstone, scarce. *Cockle* L.V., two flocks, of about fifty in flock, Pochard Ducks, to N.N.W. *Hanois* L.H., flight Yellow Wagtails to E. at 11 A.M., some settled on rock. (W.N.W., 3.)

SEPTEMBER 15th.—*Spurn*, Temminck's Stint, one shot; altogether three seen. *Tetney*, Swallows, an immense flock to E. *Hasbro'* L.V., two Whitethroats (wings sent), 3 A.M. (W.S.W., 4.) *Cromer* L.H., Osprey, 3 A.M., shot from flagstaff. (Gloomy, rain.) *Cockle* L.V., two Chaffinches on board (one died). (W.S.W., 4.) *Languard* L.H., rush of Skylarks, Grey Linnets, Chaffinches, Sparrows, and Starlings, from 8 A.M. to noon, to N.E.

SEPTEMBER 16th.—*Tees* L.V., large flocks of Widgeon; flock of Dunlin; large flocks Curlew and Whimbrel, and a great number of Swallows, the latter flying S. Immense numbers of Grey Plover on the sands about this date. *Spurn*, several Red-breasts, 9 A.M., and Chaffinches; large flocks of Knot, Dunlin, Curlew Sandpiper, Grey Plover, Bar-tailed Godwit; one Jack-snipe; several Little Stints. *Hasbro'* L.V., one dozen Larks, two Curlew, 10 P.M., round lantern. *Newarp* L.V., four Swallows on board, 9.30 A.M., and then to E.

SEPTEMBER 17th.—*Coquet* L.H., Sandwich Terns, great many fishing round island. *Whitby* L.H., Larks, large flocks during morning to S. (N., 3.) *Cromer* L.H., Curlews, W. to E. *Newarp* L.V., small flock Larks, 7.50 A.M., E. to W. Fifteen Black Ducks same direction. *South Sand Head* L.V., twelve Flycatchers, midnight, one killed. (E.N.E., 3.) *Hanois* L.H., several Wagtails all day. (W.S.W., 1; showers.)

SEPTEMBER 18th.—*Redcar*, one Snow Bunting. (N., light.) *Varne* L.V., about 1000 Black Ducks, 9.45 A.M., N.N.E. to W.S.W. (N.E., 5.) Twenty Starlings, 7 A.M., N. to S.S.E. *Hanois* L.H., great many Swallows to S., very low. (E., 4; B. C. V.)

SEPTEMBER 19th.—*Farn* L.H., Lapwings and Golden Plover, large flocks of Dunlin and Turnstone, also Purple Sandpiper about island. (W.N.W.) *Seaton-Carew*, three Woodcocks flushed out of beanfield. *Hanois* L.H., Linnets, large flock, just after sunrise. (E., 4; B. C. V.)

SEPTEMBER 20th.—*Farn* L.H., two Great Northern Divers flying S. *Redcar*, several flocks Larks to S.W.; also Ducks to N.W. Thirty Richardson's Skua, high to N.W., and 'screaming. Two or three Snow Buntings and Shore Larks to N.W. *Spurn*, about a dozen Little Stint. *Cromer* L.H., rush of Thrushes, Redwings, Wheatears, and Larks, 12.30 to 3 A.M. (E., 3), flying round lantern in large numbers; few struck. Also on 21st, 23d, 24th, and 25th, between the same hours; on the 25th with Woodcock. *Yarmouth*, Common Swift, 7 A.M. *Goodwin* L.V., Wryneck (wing sent). *Hanois* L.H., several Swallows, 8 P.M.; several struck lantern; two caught. (E.N.E., 4; C. M.)

SEPTEMBER 21st.—*Spurn*, one Jacksnipe shot; Lesser White-throat. *Tetney*, Common Sandpiper. *Cromer* L.H., the same as on 20th. *Cockle* L.V., eight Larks, 8 A.M. (N.E., 2.) *Kentish Knock* L.V., several flocks Larks to W. *Hanois* L.H., Golden-Crested Wrens and Wagtails; several killed. (E.N.E., 4.)

SEPTEMBER 22d.—*Coquet* L.H., large and small Terns all day. *Tees* L.V., a great many Swallows flying S. *Spurn*, Stonechats very numerous; all the Hedgerows alive with them. *Tetney*, Common Bunting, a few. *Llyn Wells* L.V., several flocks Ducks (S.E. to N.W.) during day. (N. by E., 2.) *Yarmouth*, Hooded Crow, two seen.

SEPTEMBER 23d.—*Longstone* L.H., one Goldcrest at noon. Peregrine Falcon, at 4.30 P.M. (N. and N.E.) *Great Cotes*, Woodcock. *Cromer* L.H., the same as on the 20th. *Corton* L.V., Black Crows, large flocks, noon to sunset, to N.W. and W. (N., 4.) *Gull* L.V., large flock Black Geese, 5 P.M., to S.W. (N.E., 4.) *Hanois* L.H., several House Sparrows, a few Wheatears and Sparrow Hawk at sunrise. Large flight Swallows to S.E. at 10 A.M. (E., 4; B. C. M.)

SEPTEMBER 24th.—*Cromer* L.H., the same as on the 20th. *Kentish Knock* L.V., fifty Larks, 5 P.M. Thrushes and Larks all night. (N. by E., 4.) *Goodwin* L.V., flock Sparrows about deck all day. *Gull* L.V., several flocks Linnets, 11 A.M., to W. (N.E., 4.) *Hanois* L.H., twenty Swallows at 2 P.M. to S.E.

SEPTEMBER 25th.—*Farn* L.H., several Redwing, 10 A.M., about gardens. (W., 1.) *Longstone* L.H., three Jacksnipe at 3 P.M. (N.) *Redcar*, one Grey Crow and a few Larks. *Spurn*, Ring Ouzel. *Cromer* L.H., the same as on the 20th. Also numbers of Woodcock, 11.30 to 2.30 A.M. (S.E., 4) “Never saw so many Woodcock at one time before; seemed to be a constant stream flying round lantern; none struck.” *Newarp* L.V., one “Red Linnet” dead on deck. *Corton* L.V., Larks and Starlings, 9 A.M. to 3 P.M., to W.S.W. *East Goodwin* L.V., flocks Wild Ducks, S.E. to N.W. (N.N.W., 4.) *Hanois* L.H., two large flights of Goldfinches, and a great many Swallows passed at the same time, 6 A.M.; a few Wagtails during morning. (N.E., 2; B. C.)

SEPTEMBER 26th.—*Redcar*, a few Skylarks, and Shore Larks and Snow Buntings to N.W. (N.W., light.) *Winterton* L.H., Chaffinch, 5 A.M., on lantern. (S.W., 3.) *Leman and Ower* L.V., two Jacksnipes, 6 A.M. (O. M.); one killed (wing sent). *Corton* L.V., flocks Larks, Starlings, Blackbirds, and Thrushes, 7 A.M. to 4 P.M., to W. *Gull* L.V., flocks Larks and Starlings at noon to W. (W.S.W., 3.) *East Goodwin* L.V., a few Larks (E. to W.) at daylight.

SEPTEMBER 27th.—*Farn* L.H., hundreds of Black-Headed Gulls fishing N. of island. *Coquet* L.H., flocks of Wild Ducks all day. (N., 5.) *Whitby* L.H., Swallows, thirty young, resting on walls, 4 P.M., and then going S. *Tetney*, Thrush and Blackbird, numerous; Kingfisher, Snipe small flight. *Corton* L.V., flocks mixed Crows, 11 A.M. to 4.30 P.M., to N.W. (W.S.W., 3.)

SEPTEMBER 28th.—*Longstone* L.H., one Goldcrest, one Chaffinch, one male Blackbird. *Redcar*, one young Iceland Gull to N.W. at 3 P.M.; another at 4 P.M. *Yarmouth*, Red-Necked Phalarope, ad. ♀, shot on Breydon. *Corton* L.V., Larks and Chaffinches, 9 A.M. to 11 P.M., to N.W. Three flocks Fieldfare, noon to 1 P.M., to W. *Hanois* L.H., large flight Goldfinches or Linnets (too far to see what they were) at 8 A.M. Flight of Swallows, 11.30 A.M. (N.W., 3.)

SEPTEMBER 29th.—*Farn* L.H., several Chaffinch, sunrise. (S.E., 6.) One Fieldfare, 9 A.M. *Longstone* L.H., Chaffinch, Goldcrest, Thrush, Redbreast, each one. (E.N.E.) *Spurn* L.H., four Snow Buntings, 10 A.M. (N.N.E., 3.) Great migration of Redbreasts; Wheatears and Stonechats numerous. *Tetney*, two Stonechats, Redbreast, Widgeon. *Cromer* L.H., few “Blackcap” (Stone-



chats ?) and Chaffinches all day about lighthouse. *Newarp* L.V., eighteen Skylarks S.E. to N. *Cockle* L.V., about fifty Larks to W. *Gallop* L.V., two Sparrows all night. *Kentish Knock* L.V., Thrushes, Larks, and Starlings all day to N.W. Thirty House Sparrows, 2 P.M., on deck. *Gull* L.V., several flocks Mountain Sparrows, 2 P.M., to S.W.

SEPTEMBER 30th.—*Longstone* L.H., one Chaffinch. A few Redwings heard passing at 4.15 A.M. and 5 A.M. One Woodcock to mainland at 1 P.M. (N.E.) *Coquet* L.H., many Eider Ducks, chiefly females, at sea off island. *Spurn*, Goldcrests, very many; Blackcap and Redstart. *Tetney*, Ring Ouzels, Wheatears, Redbreast—one on the Haile Sand off North Cotes was so exhausted that it was taken by hand. (N.E., very strong.) Oystercatcher, immense flock on coast; Snipe, several fresh arrivals. *Leman and Ower* L.V., great flock Grey Geese, S. to N.W. (E.N.E., 4.) *Yarmouth*, Short-Eared Owl, 3.30 P.M. *Corton* L.V., fifty Carrion Crows passed close to vessel to N.W. at 11 A.M.; and large flocks Larks, 7 A.M. to 3 P.M., low to W.S.W. (N.E., 4 and 5.) *Gallop* L.V., Larks in flocks, 9 A.M. till noon, to W. *Kentish Knock* L.V., Thrushes, Starlings, Larks—all day to N.W.; two Chaffinches, twelve Sparrows, one Flycatcher. (E.N.E., 3.) *Goodwin* L.V., Redbreast found dead. *East Goodwin* L.V., Larks, a flight, 8.30 A.M., E.N.E. to W.

## OCTOBER.

OCTOBER 1st.—*Farn* L.H., one Common Wren, 10 A.M. (N.E., 4.) Hundreds Lapwings all day to and from land. *Coquet* L.H., large flocks of Wild Ducks to N.; also on 2d. *Redcar*, great rush of Ducks to N.W., early morning to noon; forty to fifty flocks, thirty to fifty each; were chiefly Widgeon. (N., moderate.) *Spurn*, A few Siskins, many Redwings, Spotted Woodpecker. *Tetney*, Grey Crows daily. Great Spotted Woodpecker (Covenham), and another same locality near this date. Lapwing in large flocks to S. *Great Cotes*, pair of Ravens seen at Croxby Lake. *Inner Dowsing* L.V., fifty Skylarks, S.E. to N.W. (N., 4.) *Cromer* L.H., flocks Greenfinches. *Kentish Knock* L.V., three Flycatchers rested, and then to N.W. Several flocks small birds to N.W. *Goodwin* L.V., a few Sparrows about deck and rigging. *Gull* L.V., about eighty Geese to S.W. (N.E., 3.)

*East Goodwin* L.V., Starlings, Larks, and Sparrows, forenoon, E. to W. (E.N.E., 4.) *Varne* L.V., about 2000 Sparrows, 9 A.M., S.E. to N. (N.E., 4.)

OCTOBER 2d.—*Farn* L.H., small flock Skylarks (N.N.W., 3) to W. *Longstone* L.H., Lapwings from daylight to 10 A.M. (N.W.) *Tees* L.V., one Sparrow; also "Mountain" Sparrow came on board, 9 A.M. Twenty Barnacle Geese on sand. *Redcar*, flock of 100 Curlew, three to four miles at sea, heading for land. (N.E., light.) One Black-throated Diver. *Great Cotes*, great many Redbreasts, particularly in hedgerows near coast. *Leman and Ower* L.V., Larks, 5 P.M., two killed at night; left with Curlews. (N., 5.) *Corton* L.V., Ducks and Starlings at intervals to W. *Varne* L.V., about 4000 Sparrows, 10.30 A.M., S.E. to N. (N.E. by E., 3.)

OCTOBER 3d.—*Longstone* L.H., Lapwings from daylight till noon, at which time the flight was most extraordinary—a complete cloud of birds. (N.W. to N. by E., light.) *Redcar*, large flocks Skuas (white-breasted and long-tailed), probably Pomatorhine, four miles at sea, to N.W.; four Grey Crows. *Spurn* L.H., two Woodcocks, 9 A.M. (N.N.W., 3.) Wren killed, 4 A.M. (wing sent). *Inner Dowsing* L.V., eight Black Crows, N.E. to S.W. *Newarp* L.V., seven Skylarks S.E. to W.; one Wren on board. *Corton* L.V., flocks Larks and Thrushes, 8 to 10.30 A.M., to W.S.W. (N., 4.) *Galloper* L.V., Larks, noon to 3 P.M., to W. *Kentish Knock* L.V., forty Larks, 10 A.M., to N.W. *S. S. Head* L.V., Larks, 8 A.M. to 4 P.M., to N.W. (N.W., 5.) *East Goodwin* L.V., Owl, at noon, E.S.E. to W.N.W. *Varne* L.V., about 4000 Sparrows, 11.45 A.M., S.E. to N. (N.N.E., 3.)

OCTOBER 4th.—*Farn* L.H., hundreds of Lapwing all day to and from land. (N., 1.) *Redcar*, Gold-Crested Wren to N.W. *Spurn* L.H., one Snipe, 2 P.M. *Cley and Blakeney*, many Rock Pipits, one Snow Bunting, immature Black Tern; great many Ringed Plover and Dunlin; Bar-tailed Godwit, a few; one Curlew Sandpiper, Knot, Grey Plover, Greenshank, one Ruff; enormous concourse of Lapwing; two Skuas. (N.E., fresh to light.) *Corton* L.V., flocks Black Crows at intervals to W. *Varne* L.V., about 5000 Sparrows, 2.10 P.M., S.E. to N. (N.N.E., 5.)

OCTOBER 5th.—*Whitby* L.H., sixty-five Grey Geese, 4 P.M. to N. (N.N.W., 1.) *Tetney*, Grey Wagtails. *Cromer* L.H., Whim-

bral, flock. (S.W., 4.) *Cley and Blakeney*, few Godwit, a score of newly arrived Snow Buntings, two Twites, some Stonechats. (N.E. to E.) *Kentish Knock* L.V., fifty Starlings, 5 P.M. to W.N.W. *S. S. Head* L.V., Rooks at noon to N.W. (E.N.E., 5.)

OCTOBER 6th.—*Outer Dowsing* L.V., six young Starlings (two caught), S.W. to N.E.; one Pigeon to S.W. *Hasbro'* L.V., twelve Skylarks, two Wrens, fourteen Starlings and Chaffinches, two Redbreasts, and two Redwings about lantern all night—6th and 7th—(N.N.W., 2; o. m.); went W. at sunrise. *Hunstanton* L.H., Chaffinch caught against lantern. (W.N.W.) *Cley and Blakeney*, more Grey Plover, many Larks, a few Goldfinches. (N. to N.W.) *Leman and Ower* L.V., Starlings, 4 P.M.: one killed. *Newarp* L.V., a few Larks, 8.10 P.M., round lantern. *Corton* L.V., three Fieldfares, 7 P.M., round lantern. *Kentish Knock* L.V., Starlings, Larks, Flycatchers, one Chaffinch, round lantern at night. (N.N.W., hazy.) *Goodwin* L.V., flock Starlings N. to S. (E.N.E., 5.) *Gull* L.V., continuous flocks Linnets, 10 A.M. till noon, to W. *Varne* L.V., about 400 Sparrows, 6.30 A.M., S.E. to N.W. (E.N.E., 4.) *Hanois* L.H., two Pied Wagtails, 7.30 P.M. (E.N.E., 2.)

OCTOBER 7th.—*Spurn* L.H., one Pied Wagtail, 3 P.M. (W.) *Tetney*, Jack Snipe, first arrival. *Outer Dowsing* L.V., six Starlings, one Chaffinch, to W.; seven Black Ducks, N. to S. *Inner Dowsing* L.V., two Starlings, 9 P.M., killed. *Cley and Blakeney*, Peregrine Falcon, increase of Meadow Pipits, Purple Sandpiper, Golden Plover, about 100 Curlews, twelve Grey Crows, from sea at 10 A.M.; a few Reed Buntings. (W.N.W. to W.) *Leman and Ower* L.V., Linnet killed striking (wing sent). *Newarp* L.V., one Black Crow stopped to rest, and then to N.W. *Yarmouth*, Grey Wagtail, ad. ♀. *Galloper* L.V., a few Larks, Linnets, and Chaffinches, all day to W. (N., 4.) *Gull* L.V., about twenty Black Crows flying round light at 7.30 P.M. *S. S. Head* L.V., 100 Ducks, 10.30 A.M., to W.S.W. *Hanois* L.H., one Lark, 8 P.M., not killed. (N.N.E., 3.)

OCTOBER 8th.—*Farn* L.H., great many Gannets, twenty Linnets, 3 P.M.; three Grey Crows, 5 P.M. (N.E., 3.) *Coquet* L.H., large flock Wild Geese to N. (N.E., 7.) *Whitby* L.H., Large flocks Skylarks, Linnets, Finches, and other small birds (E. to W.), flying high. *Flambro'*, Skuas, Gulls, Gannet, etc., to N., in continuous

flocks and streams; also Scoters. (Wind E.N.E., 6.)<sup>1</sup> *Tetney*, Black Backed Gulls, thousands on sands, mostly *L. fuscus*, both old and young birds. *Outer Dowsing* L.V., one Fieldfare, one Common Wren, two Goldcrests, four Thrushes, S.E. to N.W. (N.E., 2; c. v.) *Inner Dowsing* L.V., twelve Black Crows from E. to W. *Hasbro'* L.V., large flocks Larks and Starlings, 10 A.M. to sunset, E. to W. *Hunstanton* L.H., Grey Crows, 11 A.M., to S. (N., 3.) *Cley and Blakeney*, Wheatears; Goldfinches, twenty-five and ten; one Curlew Sandpiper, E. *Newarp* L.V., fifty-six Black Crows, 1.15 P.M., S.E. to N.W. *Yarmouth*, Shorelark, one netted on Denes. Larks all night coming in. *Cockle* L.V., Skylarks in small flocks during day to S.W. and W. Starling killed. *Corton* L.V., one Sparrow-Hawk to N.W. *Kentish Knock* L.V., Larks and Starlings and small birds to N.W.; and small birds round lantern at night. *Gull* L.V., continuous flocks Larks, Sparrows, Starlings, 8 A.M. till noon, to W. *S. S. Head* L.V., Larks, forty, at 3 P.M., to N.W. *East Goodwin* L.V., Larks and other small birds, forenoon, E.S.E. to W.N.W. (W.N.W., 3.) *Hanois* L.H., a few Swallows passing at midday.

OCTOBER 9th.—*Farn* L.H., two Thrushes. (N.E., 4.) *Coquet* L.H., Woodcock, 10 A.M., on island. (N.E., 6.) *Tees* L.V., fifteen Grey Crows to N.W. (Wind E.) *Seaton-Carew*, a few Goldcrests arrived. (N.E., gale.) *Redcar*, twenty to thirty flocks Duck to N.W. Five Woodcock; Short-Eared Owl. (E.N.E., strong.) *Tetney*, Redwings, considerable migration. (N., light, rain.) *Inner Dowsing* L.V., 300 Skylarks, two Sparrow-Hawks, N.E. to S.W. One Goldcrest, on board; one Robin, dead on deck. *Hasbro'* L.V., same as previous day. *Cromer*, several flocks Scoters to W. Flock 100 Chaffinches on Lighthouse Hill. *Winterton* L.H., Chaffinch and Lark, 10.30 P.M., on lantern. Great many Crows at noon. *Newarp* L.V., Larks all day, S.E. to W. *Yarmouth*, Larks coming in from sea, and continuous to daybreak over town. *Cockle* L.V., Larks, large flocks, continuous during day, S.W. to W. Sparrow-Hawk; forty Crows at 11.30 A.M. to W. (W.N.W., 2.) *Corton* L.V., Larks and Starlings, sunrise to 4 P.M., continually to W. Thrushes and Chaffinches at 7 P.M.; Fieldfares and "Flycatchers," 7.30 P.M.

<sup>1</sup> Mr Matthew Bailey reports—"Skuas, Little Gulls, and Shearwaters in some numbers early in October; also some Fulmar Petrels, one immature Sabine's Gull shot, and a Grey Phalarope."

(very calm.) Large quantity of Black Ducks on water. *Galloper* L.V., Larks and Linnets all day to W. Larks at lantern at night. (S.W., 4.) *Kentish Knock* L.V., Thrushes, Chaffinches, Larks, and Linnets all day to W.N.W. Large number of Sparrows roosted on ship. Wings of six Bramblings sent. Thousands of birds round lantern at night, Plover, Starlings, Larks, and Chaffinches. (Ninety larks killed, many overboard.) *Swin Middle* L.V., Larks and Sparrows at intervals all day to W.N.W. *Goodwin* L.V., Larks and Starlings all day, many striking lantern. (E., 6.) *Gull* L.V., continuous flocks Linnets and Sparrows, 7.15 A.M. till noon, to W. *S. S. Head* L.V., twelve Larks, 4 P.M., one killed, to N.W. *East Goodwin* L.V., various small birds, evening. Larks and Starlings striking lantern.

OCTOBER 10th.—*Farn* L.H., one Redstart. (E.N.E., 6.) Three Chaffinch and two Thrush. *Coquet* L.H., Greenshank shot. *Redcar*, flight Duck, Widgeon, and Teal. Two Woodcock; three or four small flocks Skua to N.W. Two Fulmar Petrel, three Goldcrests. (N.E., gale.) *Flambro'*, Woodcocks, rush; several shot. (N.E., gale.) *Spurn* L.H., Greenfinches and Starlings. (N.N.E., 6.) *Tetney*, Missel Thrush abundant with Blackbirds; Meadow Pipits and a few Redwings. (N., gale, rain.) Wild Duck, many. Greenshank, very many. *Outer Dowsing* L.V., one Greenfinch, two Larks, caught on board. *Cromer* L.H., Larks, Thrushes, and Blackbirds, 1 A.M. to 2 A.M. (S., 3; M. R.) One Blackbird killed. *Cley and Blakeney*, Goldcrest, also a few Reed Bunting. (N.E., squally, rain.) *Winterton* L.H., Sparrows, great flock passing, 3 P.M.; one white bird amongst them. *Newarp* L.V., two Fieldfares and one Starling, dead on deck. (N. by W., 3.) *Yarmouth*, Snow Buntings, three. *Corton* L.V., Larks and Starlings, 8 A.M. to 2 P.M.; three flock Crows, 11 A.M. Fifty Chaffinches, 11.30 A.M. *Languard* L.H., two Woodcocks, 6.15 A.M., striking lantern; one killed, the other wounded. (N., 5.) *Galloper* L.V., large flocks Larks, Chaffinches, and Linnets, 9 A.M. to 4 P.M., to W. Hundreds Starlings, Larks, and Chaffinches striking, 9 to 11 P.M. (156 Larks, twelve Starlings, twenty-four Chaffinches killed.) (E.S.E., 4.) *Kentish Knock* L.V., Crows in large numbers to W. Larks, Chaffinches, and Sparrows. *Swin Middle* L.V., Chaffinches, Starlings, and Plover at night (12 striking). Larks in day. *Gull* L.V., continuous

flocks Larks, Linnets, Sparrows, 9 A.M. to noon, to W. *East Goodwin* L.V., few small birds all day, E. to W. (N.W., 6.)

OCTOBER 11th.—*Redcar*, Short-Eared Owl; great many Larks, up to 2 P.M., to W. *Whitby* L.V., three Woodcocks, shot close to lighthouse. (N.N.W., 8.) *Spurn*, Common Buzzard shot. *Hunstanton* L.H., Grey Crows to S. at noon. *Cromer* L.H., two Redbreasts, midnight, at lantern window. *Cley and Blakeney*, some Thrushes, Redwing, Redbreasts, Chiffchaff, Twites, Turnstone, Sanderling; 100 Grey Crows at daybreak from sea. Larks from E. in afternoon. (W., strong.) *Newarp* L.V., one Greenfinch and one Goldcrest on board, easily caught, 3.10 P.M. *Yarmouth*, Woodcock, 6 A.M., flying over town. *Kentish Knock* L.V., Starlings and Larks all day, also night. (N., 5.) *East Goodwin* L.V., Larks in forenoon, E.S.E. to W.N.W.

OCTOBER 12th.—*Spurn*, Common Buzzard shot. *Tetney*, Greenshank, several. Richard's Pipit seen. Larks, great many flocks to 12 A.M. coming in. *Cley and Blakeney*, Woodcock flying in from sea. Twites, great increase. Redwings, Rock Pipits, many. (W., strong.) *Winterton* L.H., Lapwings, great many at 3 P.M. (W.N.W., 5.) *S. S. Head* L.V., flocks Starlings and Larks, 10 A.M. to 4 P.M., to N.W. (N.W., 3.)

OCTOBER 13th.—*Farn* L.H., two Snow Bunting, 11 A.M. (N.N.E., 7.) *Coquet* L.H., two Golden-Crested Wrens on island. *Redcar*, one Short-Eared Owl; Purple Sandpiper. *Inner Dowsing* L.V., fifty Starlings, forty Skylarks, twenty-one Black Crows, E. to W. *Cromer* L.H., Crows all day, E. to W. Several Hawks, daylight to noon. *Cley and Blakeney*, Blackbirds, Grey Geese, about a score. (W., strong.) *Winterton* L.H., one Wood Pigeon to S. *Newarp* L.V., Larks and Starlings, during day, E. to N.W. *Corton* L.V., sixty Titlarks, twenty Carrion Crows, close past vessel, to W. and N.W. *Swin Middle* L.V., Larks at intervals all day to W.N.W. *S. S. Head* L.V., Starlings and Larks, 9 A.M. to 4 P.M., to N.W. (N.N.W., 3.) *East Goodwin* L.V., House Sparrows during day, some alighting on board, S.E. to N.W.

OCTOBER 14th.—*Coquet* L.H., Woodcock, 11.10 A.M. (N.E., 9.) *Tetney*, Redwings and Blackbirds, very numerous. (N., strong, hail.) Great Tit in very considerable numbers; Swallows, a few. Magpie, a flock of a dozen in Grainsby Park, a great many appearing about this date. Larks by hundreds in fields; Greenshank, a few. *Cley and Blakeney*, two Woodcocks in

scrub. (N., very strong.) *Newarp* L.V., Larks passing all day, E.S.E. to N.W. (W. by E., 7, 8.) *Yarmouth*, Woodcock, shot on Denes. *Languard* L.H., Golden-Crested Wren. *S. S. Head* L.V., flocks Larks and Ducks, 10 A.M. to 3 P.M., to W.N.W. *East Goodwin* L.V., few Larks at noon, S.S.E. to N.N.W. (N.W., 6.)

OCTOBER 15th.—*Coquet* L.H., half-a-dozen Starlings, one Redbreast. *Redcar*, Short-Eared Owl and Woodcock, nine Long-Tailed Ducks (one old one) (N. gale). Thousands of Scoters on sea between Redcar and Marske. Flock of about forty Long-Tailed Ducks seen in the Tees bay about this date. *Whitby* L.H., Woodcock, 9 A.M., shot. Thousands large Grey Gulls, 4 to 5 P.M., to N. high. (N.N.E., 5.) *Tetney*, Redshank, large flock. *Inner Dowsing* L.V., large flock Crows, S.E. to N.W. (N.E., 6.) *Hasbro'* L.V., Black and Grey Crows, noon to sunset, E. to W. *Leman and Ower* L.V., great flock Crows, S.E. to W. *Newarp* L.V., Larks and Black Crows all day in flocks, E. to N.N.W.; a few Sparrows, one Greenfinch caught. (N.E., 7.) *Yarmouth*, Sand Martin, shot on Breydon. Spotted Crake at Horsey. Rooks, large arrival from 3 P.M.; flight of Woodcock at day-break. (N.E., 6.) *Cockle* L.V., Crows, large flocks at frequent intervals, noon to sunset, E. to W. (N.N.E., 7.) *Corton* L.V., Starlings, Larks, Linnets, and small birds, 2 P.M. to 4 P.M., to W. (N.N.E., 7.) Black Crows, 4 P.M. to 5.15 P.M., as far as the eye could see, from E. to W., flying W. *Galloper* L.V., Crows, Starlings, Larks, noon to sunrise, to W. (N., 10.) *Kentish Knock* L.V., Crows reached for miles, noon to dark; some tried to rest, going E. to W. Thrushes, Starlings, Larks, and many others in the distance. (N.N.E., 8.) *Swin Middle* L.V., Black Crows, 160, 4.30 P.M.; Larks at intervals; Starlings to W.S.W. *Thanet*, Great Spotted Woodpecker shot. *Goodwin* L.V., three Crows at noon to W. (N.N.E., 8.) *Gull* L.V., continuous flocks Black Crows, Starlings, Larks, 10 A.M. to 5 P.M., to W. *S. S. Head* L.V., Larks, 8 A.M. to noon; Rooks, noon to 4 P.M., westerly. (N.W., 5.) *East Goodwin* L.V., good many Larks all day, accompanied by a continuous flight of Black Crows, E. to W. (N.E., 7.)

OCTOBER 16th.—*Spurn*, Little Auk. *Outer Dowsing* L.V., flight Larks, E. to W.; one Greenfinch, twenty Starlings, to W.S.W. *Inner Dowsing* L.V., thirty Larks, 300 Black Crows, 200 Starlings, fifteen killed, 5 P.M. to 6 P.M., S.E. to N.W. *Llyn Wells* L.V.,

Crows in large flocks all day, S. to N. (N.W., 4; hazy.) *Dudgeon* L.V., about 300 Black Crows and 300 Larks, 1.30 P.M. to 5 P.M., S.E. to N.W.; ten Starlings killed. *Hasbro'* L.V., Black and Grey Crows, Starlings and Larks, and a few Chaffinches, E.N.E. to W.S.W. *Cromer* L.H., several Missel Thrushes near lighthouse. (S.E., 3.) *Winterton* L.H., one Lark and two Starlings, 3.40 A.M., at lantern. *Leman and Over* L.V., Larks and Starlings, all day, to W. (N., 3 and 4.) *Newarp* L.V., Black Crows and Larks, all day, E. to N.N.W. (N., 4.) *Yarmouth*, Grey Crows and Rooks after 3 P.M., large arrivals, chiefly the latter; Long-Tailed Duck, im.: River Bure. *Cockle* L.V., Crows and Skylarks, throughout day, E to W. (N.N.E., 4.) *Corton* L.V., large flocks Black Crows, sunrise to sunset, continually to W.; Larks, small birds, and Chaffinches at intervals to 2.30 P.M., to N.W. *Kentish Knock* L.V., Crows, thousands all day, very low, E. to W. Chaffinches, Larks, Linnets, and Sparrows. (N., 4.) *Swin Middle* L.V., rush of Crows and Larks to W. (N.N.W., 3.) *Goodwin* L.V., Waterhen, 7.30 P.M., also a Woodcock; struck lantern and killed. (N. 4; c. v.) *Gull* L.V., continuous flocks Starlings, Larks, Sparrows, Linnets, 9 A.M. to 5 P.M., to W. (N.N.E., 4.) *S. S. Head* L.V., Larks and Rooks, 7 A.M. to 5 P.M., to N.W. *East Goodwin* L.V., Horned Owl, sunrise, on deck; flew to N.W.

OCTOBER 17th.—*Coquet* L.H., Fieldfares, Blackbirds, Starlings, all day on island. *Redcar*, Grey Crows, early morn to noon, seen at sea going W.; Larks all morning. *Whitby* L.H., Larks, many flock during morning to N. high. (N.N.W., 2.) One Goldcrest, 11 P.M. *Flambro'* L.H., Crows in large numbers during day to S.W. (N.N.W., 4.) [A nest of Grey-Backed Crows was this year reared in cliff near lighthouse.] *Spurn*, Rough-Legged Buzzard shot. *Outer Dowsing* L.V., thirty Crows to W. *Inner Dowsing* L.V., 300 Grey Crows during day (two killed), from S.E. to N.W. *Llyn Wells* L.V., large flocks of Crows all day, S. to N. (N.E., 3.) *Dudgeon* L.V., About 350 Crows, 3 to 4.50 P.M., S.E. to N.W. *Hasbro'* L.V., same as previous day. *Winterton* L.H., a few Larks and Starlings, 1 A.M., at lantern. *Newarp* L.V., Black Crows and Larks all day, E. to N.N.W. *Yarmouth*, Jackdaw, 10.30 A.M. Little Gull, North Denes. Grey Shrike shot; flights Grey Crows at intervals all day. *Cockle* L.V., very large flocks of Crows throughout day, E. to W. *Corton* L.V., large



mixed flocks Crows, Starlings, Larks, Chaffinches all day to W. *Shipwash* L.V., Rooks, 5.20 P.M., S.E. to N.W. *Galloper* L.V., large flocks Crows, Starlings, Larks, and some Linnets, 9 A.M. to sunset, to W. Many Larks and one Crow, 9 P.M. to midnight (twenty-six Larks killed). (N., 4.) *Kentish Knock* L.V., Starlings, Larks, Sparrows, and Chaffinches all day to W.S.W.; large number of Crows, high, at sunset; 100 House Sparrows and small birds. *Swin Middle* L.V., Larks at intervals; eighty male Sparrows (*P. montanus?*) (ten killed). *Gull* L.V., continuous flocks Starlings, Larks, Sparrows, 10 A.M. to 4 P.M., to W. *S. S. Head* L.V.; Rooks and Larks, 6 A.M. to 5 P.M., to N.W. (N.N.W., 3.) *East Goodwin* L.V., Larks during day, E.S.E. to W.N.W.

OCTOBER 18th.—*Redcar*, large flock Lapwings at sea to S.W.; about twelve Red-Throated Divers, and twenty Velvet Scoters, along with Common Scoters. *Whitby* L.H., several hundreds Grey Crows, also Larks and Finches, 7 to 9 A.M., to N. *Outer Dowsing* L.V., one hundred Starlings, two Larks, E. to W. *Llyn Wells* L.V., Crows and Larks all day, S. to N. (N.W., 3.) *Dudgeon* L.V., same as previous day. *Winterton* L.H., Starlings, 4 A.M., at lantern. *Cockle* L.V., Crows and Skylarks throughout day, E. to W. (N.N.W., 4.) *Corton* L.V., Crows, Blackbirds, Larks and others, continually to W. *Shipwash* L.V., Larks in flocks during day, S.E. to N.W.; Larks, Starlings, and Chaffinches round lantern at night. (N. to N.W.) *Galloper* L.V., Larks, 9 A.M. to 3 P.M., to W. (N., 4.) *Kentish Knock* L.V., Larks, Linnets, Chaffinches, Sparrows, all day to W.S.W.; a few stray Crows and Starlings. Forty Sparrows on board. (N.N.W., 4.) *Goodwin* L.V., flocks Larks and Sparrows all day. (N.W., 5.) *Gull* L.V., continuous flocks Starlings, Larks, Sparrows, and Linnets, 10 A.M. to 3 P.M., to N.W. *East Goodwin* L.V., Sparrows hovering round ship during day.

OCTOBER 19th.—*Redcar*, two flocks Lapwings at sea to S.W.; one flock Terns to S.E. *Tetney*, Woodcock (Grainsby Park). *Llyn Wells* L.V., less Crows and Larks all day, S. to N. *Dudgeon* L.V., same as previous day. *Cockle* L.V., Crows and Skylarks, a few stragglers during day. *Shipwash* L.V., Larks, 4 P.M., E. to W. (W., moderate.) *Galloper* L.V., flocks Crows all day to N.W. (N.E., 3.) *Gull* L.V., continuous flocks Starlings, Larks, Sparrows, Linnets, and Green Linnets all day to N.W. *Varne* L.V., about 200 Larks, 9 A.M., S.S.E. to W. (N.N.W., 4.)

OCTOBER 20th.—*Tetney*, Meadow Pipits, very abundant; Greenshank, one. *Winterton* L.H., one Chaffinch, 11.30 P.M., at lantern. *Yarmouth*, Short-Eared Owl. Crows, numerous arrival all day. Common Tern. *Cockle* L.V., Crows and Skylarks, a few stragglers during day. Very large flock Stints, 11 A.M., E. to W. (N.N.E., 4.) *Corton* L.V., Larks, Starlings, Titlarks, to W. and W.N.W. *Shipwash* L.V., two Stormy Petrels, 7.30 P.M., round lantern. *Galloper* L.V., Crows, Starlings, and Larks, 8 A.M. to 4 P.M., to W. (W.N.W., 3.) *Kentish Knock* L.V., four Sparrows and several Larks to S.W. *Swin Middle* L.V., Common Sparrows; a few Larks to W. (N.E., 3.) *Gull* L.V., continuous flocks Starlings, Larks, Linnets, Sparrows, to N.W. all day. (N.W., 3.)

OCTOBER 21st.—*Coquet* L.H., One Woodcock, 10.30 A.M., shot. *Outer Dowsing* L.V., 200 Starlings, 11.30 A.M., S.E. to N.W.; flight Black Crows to W.N.W. (N.E. and N., 4.) *Inner Dowsing* L.V., 100 Starlings, 10 A.M., S.E. to N.W. (N., 4.) *Hasbro'* L.V., very large flocks Black and Grey Crows, Larks, and Starlings, also three Redwings and several "Flycatchers" to W.N.W. *Cromer* L.H., Buzzard at daylight. *Yarmouth*, Grey Shrike, Breydon marshes. *Corton* L.V., large flocks Starlings, sunrise to sunset, to W.; also Larks, Chaffinches, and other small birds, and mixed flocks of Crows. *Languard* L.H., one Blackbird and Common Wren, 8.30 A.M. (N., 3.) *Shipwash* L.V., Rooks, Starlings, and Larks in flocks all day, E. to W. (N.N.E., moderate.) *Kentish Knock* L.V., Crows, Larks, Chaffinches, and Sparrows to N., and some to S.W. (N.N.E., 4.) *Gull* L.V., Crows, Larks, Linnets, Sparrows, continuously, 9 A.M. to noon, to N.W.; some Sparrows on deck. Very large Crane at 4.20 P.M. to N.N.W. *East Goodwin* L.V., large flock Larks, sunset, E. to W. *Varne* L.V., 100 Crows, 9 A.M., S.E. to N.W.; sixty Sparrows, noon, E. to N.W. (N. by E., 4.)

OCTOBER 22d.—*Farn* L.H., Skylarks and Thrush at daylight; one Woodcock. (W., 4.) *Coquet* L.H., Horned Owl, 3 P.M., shot. *Tees* L.V., large flocks Larks to N.W. from S.E. *Whitby* L.H., a great number Starlings all night round lantern; one Lark killed. (W.N.W., 4.) *Outer Dowsing* L.V., flight Larks, thirty Starlings, one Black Swan, one Crow, to S.W. *Inner Dowsing* L.V., Larks, forty Grey Crows, twelve Rooks, E. to W. *Dudgeon* L.V., Black Crows, Grey Crows, and Larks all day, S.E. to N.W. (N.W., 3, 4.) *Hasbro'* L.V., Black and Grey Crows, Starlings,

and Larks. *Yarmouth*, two Purple Sandpipers shot on coast. (N.W.) *Cockle* L.V., thousands Larks, continuous during day, E. to W.; Black and Grey Crows, the same; sixty Stints at 10 A.M., E. to W. *Corton* L.V., Blackbirds and Larks, sunrise to sunset, continually to W.; also Titlarks, Starlings, Crows, and other small birds. *Shipwash* L.V., Rooks, Starlings, Larks, in afternoon, S.E. to N.W. (S.W.) *Galloper* L.V., Rooks, Starlings, Larks, 4 P.M. to 5 A.M. (W.S.W., 4.) *Kentish Knock* L.V., Crows, Starlings, Linnets, Larks, and Sparrows to N.W.; also Crows, Starlings, and Linnets to S.W. *Goodwin* L.V., a few Larks, noon. (N.N.W., 4.) *Gull* L.V., several flocks Sparrows all the afternoon; several on deck. *East Goodwin* L.V., five Geese, flock Crows, several flocks Larks, N.E. to W.S.W. Large flocks Wild Ducks, continuous from noon to 4 P.M., to S.W.

OCTOBER 23d.—*Farn* L.H., three Snow Bunting, two Grey Crows, to W. (W., 5.) *Flambro'* L.H., Larks and other small birds during day to W.S.W. *Outer Dowsing* L.V., one Black Crow, two Larks, to W. *Hasbro'* L.V., as on previous day, and great numbers during night of Larks, fifty killed. *Cockle* L.V., a few straggling Crows, E. to W. (W.S.W., 4.) *Corton* L.V., Thrushes, large flocks, 7 A.M. to 4.50 P.M., at intervals, to W.; also mixed Crows, Starlings, and Larks, 2 P.M. to 4 P.M. *Shipwash* L.V., great many flocks Rooks, Starlings, Larks, and Sparrows, 9 A.M. to noon, S.E. to N.W. *Galloper* L.V., Crows and Larks, sunrise to noon, to W.S.W. *Kentish Knock* L.V., Crows, Starlings, Larks, and some Sparrows, S.W. till noon. *Swin Middle* L.V., two flocks Starlings to W.; many Ducks. *Goodwin* L.V., large flock Crows, E. to W., at 10 A.M. *Gull* L.V., Crows, Starlings, Larks, and Linnets, 8 A.M. to 3 P.M., to N.W. (W., 3.)

OCTOBER 24th.—*Tees* L.V., large flock Snow Buntings to S.; one Thrush to N.W. (N.N.E., snow.) *Redcar*, several Short-Eared Owls, many Woodcocks, Larks, and about forty Chaffinch; also on 25th. (N. gale, snow and rain.) *Tetney*, Long-tailed Duck, two shot; Water Rail, Whimbrel. *Outer Dowsing* L.V., twelve Larks, eight Starlings, two Crows, to W.S.W. *Cromer* L.H., Lapwings all day, E. to W. (W.N.W., 3.) *Cockle* L.V., small flocks of Crows to N.W. (N., 7.) *Shipwash* L.V., Crows, Larks, and Starlings all day, E. to W. (N.N.E. gale, snow.) *Galloper* L.V., Larks, small flocks all day to W.

OCTOBER 25th.—*Farn* L.H., several Blackbirds and Thrush. (N.N.E., 4.) *Tees* L.V., Bullfinch, came on board. (N., light.) *Tetney*, Snipe, second flight. *Outer Dowsing* L.V., forty Black Crows, two Larks, one Linnet, 3 P.M. to 4.30 P.M., westward. *Inner Dowsing* L.V., seventy Black Crows during day; fifty Larks, 5 P.M. (E. to W.N.W.) *Dudgeon* L.V., Crows, Starlings, and Larks, in scattered condition during day, S.E. to N.W. *Hasbro'* L.V., thousands of Black Crows, and Grey Crows, and Larks all day to W. *Yarmouth*, Grey Crows and Larks all day to S.W. *Cockle* L.V., small flocks Crows to N.W. (N. by E., 7.) *Corton* L.V., Crows, Larks, Starlings, and small birds continually to W. *Shipwash* L.V., the same as on 24th, to sunset, all travelling E. to W. *Galloper* L.V., very large flocks Crows and Larks all day to W. (N.N.E., 6.) *Kentish Knock* L.V., Crows in hundreds all day to N.N.W.; one Cock Blackbird to S.W.; and several hundreds of Larks. (N., 7; rain.) *Swin Middle* L.V., Larks, small flocks, twenty to thirty, 9 to 10.30 A.M., to N.W.; a large flock Starlings; Larks again from 12.20 to 3.30 P.M. *Goodwin* L.V., Larks about all day. (N., 8.) *Gull* L.V., flocks Larks and Sparrows, 8 A.M. to 4 P.M., to N.W. (N., 6.) *East Goodwin* L.V., flocks Larks during day, E. to W. (N., 6.)

OCTOBER 26th.—*Farn* L.H., Woodcock, 10 A.M.; another 5 P.M. (S.W., 3); flushed on island. *Coquet* L.H., four Woodcocks; Fieldfares, all day. *Tees* L.V., large flocks Starlings, Larks, Greenfinches to N.W.; three Chaffinches on board. *Tetney*, a few Fieldfares and some Redwings; scores of Blackbirds. (S., light.) *Outer Dowsing* L.V., many Larks and Crows, 10 A.M. to 4.30 P.M., westward; one Jackdaw. *Inner Dowsing* L.V., 150 Black Crows, 100 Skylarks, during day; E.N.E. to W.S.W. *Llyn Wells* L.V., large flocks Crows and Larks all day, S.E. to N.W. (S.W., 3.) *Dudgeon* L.V., Black and Carrion Crows, six Jackdaws, Starlings, and Larks during day, S.E. to N.W. *Hasbro'* L.V., Starlings, also some Hen Blackbirds (three Blackbirds, sixty Larks, and twenty Starlings killed at lantern at 4 A.M.). *Cromer* L.H., Curlew, 1 A.M., at light. *Northrepps*, Peregrine and Buzzard. *Leman and Ower* L.V., Greenfinch (wing sent). *Yarmouth*, Rooks in flocks all day, S.W.; Long-Tailed Duck. *Cockle* L.V., small flocks Crows during day to W. *Shipwash* L.V., several flocks as on 25th, till sunset, E. to W. *Kentish Knock*

L.V., Crows, Larks, and Sparrows all day to S.W. (W.S.W., 2.) *Swin Middle* L.V., Crows, Larks, and Black Ducks all day to W. *Goodwin* L.V., Crows and Larks all day; some struck at night. (N., 4.) *Varne* L.V., 100 Larks, 4.30 P.M., E. to N.W.

OCTOBER 27th.—*Farn* L.H., small Grebe, 3 P.M., swimming near island. *Tees* L.V., numbers of Grey Crows, large flock Widgeon, two Chaffinches, three Titlarks. (S.W., strong.) *Spurn*, some Siskins; three Purple Sandpipers shot. *Tetney*, Common Snipe, and Jacksnipe. (S., strong.) *Inner Dowsing* L.V., 200 Black and Grey Crows; 150 Larks during day, E. to W. (S.W., 5.) *Llyn Wells* L.V., Lapwings, large flock, 9 A.M., E.S.E. to W.N.W. Larks and Crows during day, E. to N.W. *Yarmouth*, Rooks, numerous arrival all day. Purple Sandpiper (im. ♂) shot. *Cockle* L.V., large and continuous flock of Crows; Larks and Starlings during day to W. *Corton* L.V., Larks and Starlings, noon, to S.W. *Languard* L.H., five Grey-Backed Crows, 6 A.M. *Shipwash* L.V., small flocks Rooks, Starlings, and Larks all day, S.E. to N.W. *Swin Middle* L.V., Crows, Starlings, Larks, morn to noon, E. to W. Two Chaffinches. *Goodwin* L.V., a few Larks about deck. *East Goodwin* L.V., Crows, 9 to 11 A.M., E. to W. (S.W., 5.)

OCTOBER 28th.—*Farn* L.H., a few Blackbirds, Thrush, and Redwing. (W., 4.) *Redcar*, great flocks Lapwing to W.; also 29th and 31st. *Spurn*, Jacksnipe, several; Snow Buntings. *Tetney*, Golden Plover, large flock. *Inner Dowsing* L.V., two dozen Starlings caught during night. *Cromer* L.H., flocks Gannet all day, S.E. to N.W. (W., 2.) *Cockle* L.V., fifty Black Crows, one Lark, three Linnets, 9.30 A.M., to N.W. One Wren on board. *Corton* L.V., Larks, 10 A.M. to sunset, flying W. by N. *Galloper* L.V., Crows and Starlings during day to W. (S.W., 5.)

OCTOBER 29th.—*Llyn Wells* L.V., small flocks Crows and Larks during day, E.S.E. to W.N.W. (S.W.) *Yarmouth*, Knot and Long-Tailed Duck. *Cockle* L.V., Crows, two flocks, 100 in flock, 2 and 3 P.M., to N.W. *Corton* L.V., Black Crows, 9 A.M. to 4 P.M., to W. *Languard* L.H., large flock of Golden Plover, 4 P.M., high to S.W. (N.N.W., 4.) *Goodwin* L.V., large flock Crows at noon, E. to W.

OCTOBER 30th.—*Tees* L.V., large flocks Larks and Grey Linnets; three Titlarks came on board. *Outer Dowsing* L.V., 200 Larks and one Starling. *Inner Dowsing* L.V., thirty Grey Crows,

E.N.E. to W.S.W. (W., 4.) *Cromer* L.H., several Golden Plover, 6.30 to 8 P.M., round light. (S., 3; thick mist.) *Languard* L.H., seventeen Wood Pigeons, 4.25 P.M., low to N.E. (W., 5; B. C. M.)

OCTOBER 31st.—*Farn* L.H., one Golden-Crested Wren, 8 A.M. Blackbird, Thrushes, Titlarks, all day about island. Small flocks of Thrushes and Fieldfares in forenoon to W. One Woodcock, 5 P.M., flushed on island. *Tees* L.V., great many Grey Crows to N.W. Small birds, Larks, Linnets, and Starlings; five Titlarks and two Bullfinches came on board. *Redcar*, four Redwings and a few Grey Crows. (W., light.) *Inner Dowsing* L.V., 100 Black Crows; fifty Larks, westerly. (W., 4.) *Llyn Wells* L.V., Crows, large flock, 7 to 9 A.M., S.S.E. to W.N.W. (W.S.W., 5.) Four Starlings struck lantern. *Cockle* L.V., five Black Crows, 5.30 A.M., to W. *Shipwash* L.V., four flocks Black Crows, E. to W. (W.S.W., moderate.) *Goodwin* L.V., a few Larks all day, and striking lantern at night.

## NOVEMBER.

NOVEMBER 1st.—*Coquet* L.H., Fieldfares, large flock; one Snow Bunting; twelve Grey Crows. Large flock of "Mountain" Sparrows; remained a week. (S.S.E., 9.) *Tees* L.V., large flocks Starlings to S. Snow Buntings; great many Grey Crows to N.W. *Spurn* L.H., several Golden-Crested Wrens, 8 A.M. (S.S.E., 7.) *Outer Dowsing* L.V., 300 Crows, large flight Larks, three Chaffinches, two Sparrows (one caught). *Llyn Wells* L.V., Larks, several flocks, sunrise to 10 A.M., S. to N.W. *Dudgeon* L.V., immense numbers of Crows, noon to 5 P.M., E.S.E. to W.N.W. Several small flocks Larks; fifteen Lapwings. (S., 6.) *Hasbro'* L.V., continuous flocks Black and Grey Crows and Larks, 10 A.M. to 4 P.M., very low, E. to W., and apparently much fatigued. (S., 7.) *Yarmouth*, Redshank; Crows, 9.30 A.M., a few in from sea. And great numbers of Crows, Rooks, and Larks all day. (S.W., gale.) *Cockle* L.V., continuous Crows, Starlings, Larks, Lapwings all day to N.W. (S., 7.) *Corton* L.V., Larks and Crows, 10 A.M. to noon, to W.N.W. *Shipwash* L.V., large flocks Crows, Larks, and Chaffinches all day, E.N.E. to W.S.W. *Galloper* L.V., Crows, large flocks, 9 A.M. to W. *Swin Middle* L.V., 15 Black Crows to W. *Goodwin* L.V., flock

Larks, 8 A.M. to W. (E.S.E., 6.) *East Goodwin* L.V., 25 Black Crows, 10.30 A.M., E.N.E. to W.

NOVEMBER 2d.—*Farn* L.H., Blackbirds, Fieldfares, Thrushes, Redwings, two Ring Ouzels, and several Tree Sparrows on island; also one Woodcock and one Wood Pigeon. (S., 8.) Two large flocks of Golden Plover, flying W. Flocks of Fieldfares, Thrushes, Redwings, Skylarks, Snow Buntings, and Starlings, to W., from 10 A.M. to 1.30 P.M. Three Common Wren in garden. *Coquet* L.H., two "Horned" Owls. *Tees* L.V., large flocks Widgeon, Grey Ducks, and Dunlin, two Thrushes, Titlarks, and two Bullfinches; the latter came on board. (Strong S.W.) *Whitby* L.H., flocks Fieldfare during morning, high, to S. (S., 3.) *Spurn* L.H., many small birds, Crows, 9 A.M. (S.S.E., 5.) *Tetney*, Teal, many, twenty-two in one flock. *Outer Dowsing* L.V., one Blackbird, 7 A.M., 200 Larks, 3 P.M., 300 Crows, 3.30 P.M., to W. *Llyn Wells* L.V., Knot, very large flock, 9 A.M., N. to S. *Dudgeon* L.V., 150 Crows, noon to 3 P.M., E.S.E. to W.N.W. Fifty Mountain Sparrows, several on deck. *Hasbro'* L.V., continuous Black and Grey Crows, 10 A.M. to sunset, E. to W., low. (S., 4.) *Yarmouth*, Purple Sandpiper, ad. ♂, Breydon. Great Spotted Woodpecker, ad. ♂. *Cockle* L.V., great flocks Crows, Lapwings, and Larks, to W., throughout day. *Corton* L.V., Larks and Crows, 5 A.M., round lantern, and passed close to ship, flying W., from 8 A.M. to 4 P.M. *Shipwash* L.V., Crows, Larks, and Chaffinches all day, S.E. to N.W. (Fresh, S.S.W.) *Swin Middle* L.V., Larks, 20 to 30 and single, 8 A.M. to noon, to W. (S.S.W., 4.) Two large flocks Sanderling, to E., at noon. *Goodwin* L.V., flock Larks, 9.30 A.M.; also striking lantern at night. *East Goodwin* L.V., two flocks Larks, 10 to 11 A.M., E. to W. (S.W., 6.) *Varne* L.V., 100 Starlings, 4 P.M., S.E. to N.W. *Hanois* L.H., a few Swallows passing, 10 A.M. (W.N.W., 4; c., showery.)

NOVEMBER 3d.—*Tees* L.V., Grey Crows to N.W.; one Woodcock. *Whitby* L.H., Wrens, Snow Buntings, Fieldfares, 10 A.M., about premises; also Linnets, Finches, and other small birds; flying high, to S. (S.S.W., 3.) *Flambro'* L.H., Larks and Crows, 7.30 A.M. to 10.40 A.M., to S. *Spurn* L.H., Grey Crows and Brambling, 8 A.M. (S., 4.) *Llyn Wells* L.V., Larks, several round ship, noon to 3 P.M. *Cromer* L.H., few Larks and Starlings, midnight to 3 A.M. (S. to S.W., 5; misty.) *Northrepps*, Buzzard, passing over. *Yarmouth*, Swallow, at Breydon, five

or six. A few Crows, 10.30 A.M., from sea. *Cockle* L.V., three Crows, one Starling, and a Lark, 9.30 A.M., to W. *Languard* L.H., two Common Wrens, 11.5 A.M. *Goodwin* L.V., Crows and Starlings at noon to W. (S.W., 8; O. R.)

NOVEMBER 4th.—*Farn* L.H., one Long-Tailed Duck, shot. *Redcar*, a few Blackbirds, Chaffinches, and six Robins; some at sea, others at breakwater. (W.) *Spurn* L.H., Tree Sparrow, killed, 3 A.M. (S., 4.) Wing sent. *Cromer* L.H., Curlew and Golden Plover, 6 to 8 P.M., round lantern; also on 5th and 6th. *Yarmouth*, Swallow, five, Jackdaw, 8.30 A.M., fifteen from sea; Goldcrest. *Cockle* L.V., a few straggling Crows to W. during day. *Galloper* L.V., large flocks Crows and Starlings all day to S.W. *Swin Middle* L.V., a few Larks and Crows. *Goodwin* L.V., Crows and Starlings to W. at 2 P.M. (S.W., 7.)

NOVEMBER 5th.—*Whitby* L.H., forty-two Grey Geese, high to S.; eight Snow Buntings, in garden. (W., 4.) *Llyn Wells* L.V., Larks and Starlings during day, S.S.E. to N.W. *Yarmouth*, Ring Ouzel, im. ♂; Swallows and Martin, five at 4 P.M.; two Shore Larks. *Cockle* L.V., one Starling to W. *Gull* L.V., Crows, 7 A.M. to noon, to N.W. (W., 3.)

NOVEMBER 6th.—*Coquet* L.H., flock of Golden-Crested Wrens. (S.E., 5.) *Spurn* L.H., Chaffinches and Redbreasts, 9 A.M. (S.S.W., 3.) *Llyn Wells* L.V., six Linnets; four Starlings, killed against lantern. *Hasbro'* L.V., forty to fifty Black Crows, 3.30 P.M., to W. (S., 2.) *Yarmouth*, Crows, 4 P.M., from sea inland; Larks, Redwings, 7 P.M., over town; ten House Martins (Keswick Hall). *Cockle* L.V., about 1000 Larks during day to S.W. *Gull* L.V., Crows, 7 A.M. to 4 P.M., to N.W. (S.W., 3.)

NOVEMBER 7th.—*Outer Dowsing* L.V., Black Duck, large flight to S.W.; twenty Larks to W.S.W. *Llyn Wells* L.V., Crows during day, S.E. to W.N.W.; two Larks killed. *Hasbro'* L.V., Skylarks, large flock at 6.30 A.M., to W.; two Great Tits (wings sent), 3 P.M. *Yarmouth*, Redshank, Golden and Grey Plover, many over town after dark; also Dunlin all evening. (S.E.) *Cockle* L.V., a few Larks during day to S.W.; two "Oxeyes" on board. *Shipwash* L.V., two flocks Lapwings, N.E. to S.W.; thirty Starlings, E. to W. *Swin Middle* L.V., six male Sparrows, a few Larks and Starlings. *Goodwin* L.V., six Sparrows about deck all day. *Gull* L.V., six Sparrows about deck.

NOVEMBER 8th.—*Farn* L.H., three Blackbirds, two Redbreasts,



and several Hedge Sparrows about island. *Tees* L.V., one Woodcock. (E., fresh.) *Redcar*, several Woodcock. (N.E., gale.) *Flambro'* L.H., Blackbirds and Redwings, noon, to W.S.W. (E. by S., 6.) One "Stormcock," 10.50 P.M., killed. *Yarmouth*, Common Tern, im. shot at Breydon; Golden and Grey Plover, 8 P.M., numbers heard over the town; also Ringed Plover, Dunlin, and Curlew. Water Rail taken on smack at sea about this date. *Languard* L.H., Woodcock, 4.30 P.M., rested a few minutes and went E.S.E. (E., 4.) *Gull* L.V., one Sparrow at daylight, on deck.

NOVEMBER 9th.—*Farn* L.H., Glaucous Gull (E., 5) flying N. *Tees* L.V., Woodcock. *Redcar*, Woodcock, Short-Eared Owl, several Grey Crows. *Spurn* L.H., several Blackbirds and Starlings. *Outer Dowsing* L.V., 200 Black Ducks to S.W.; forty Larks to W. (E.N.E., 4.) *Languard* L.H., two Robins, one Snow Bunting, 4.20 P.M., in garden. *East Goodwin* L.V., large flock Larks, 9 A.M., E. to W.; Ducks, 2 to 4 P.M., E. to W.

NOVEMBER 10th.—*Coquet* L.H., Woodcock struck lantern and killed, 3 A.M. (E., 4.) *Tees* L.V., Woodcock; one "Large-Eared" Grebe. *Tetney*, Golden Plover, a great many; Lapwings, thousands; Woodcock. *Inner Dowsing* L.V., one Hen Brambling, 3 P.M., caught; one Blackcap, 6 P.M., caught. (E.N.E., 3.) *Llyn Wells* L.V., Larks during day. *Winterton* L.H., several Chaffinch at lantern, 6 A.M. *Yarmouth*, Goldcrests and Great Tits in Priory Gardens. *Swin Middle* L.V., Woodcock found dead on lantern top, at sunrise. (E.S.E., 4.) Stormy Petrel and Hen Blackbird caught on deck. *East Goodwin* L.V., Wild Ducks continuous through day, E.N.E. to W.

NOVEMBER 11th.—*Redcar*, one Woodcock. (N.E., moderate.) *Tetney*, Snow Bunting, two on old wreck, North Cotes sands. *Inner Dowsing* L.V., one Stormy Petrel, 9 P.M., caught. (E.N.E., 3.) *Winterton* L.H., Larks and Starlings, 9.40 P.M. (N.E. by E., 5.) *Yarmouth*, Goosander in market; Blackcap, ♀, shot. *East Goodwin* L.V., Wild Ducks as on 10th, E. to W. *Hanois* L.H., flight Starlings, 9 A.M. (E., 3); also a flight of Plover at 11 A.M.; both flights to E.

NOVEMBER 12th.—*Farn* L.H., several Blackbirds, Thrushes, and Starlings about island. (N.W., 3.) One Goldcrest in garden. *Cromer* L.H., Common Wren, 2 A.M., at lantern. (W., 4.) *Yarmouth*, Great Grey Shrike, ♀, shot.

NOVEMBER 13th.—*Farn* L.H., small flock Siskins on island. (N., 3.) *Tees* L.V., one Shearwater; one Thrush, 10 A.M., came on board. (W.N.W., hazy.) *Winterton* L.H., Curlews to W., 1.20 A.M. *Yarmouth*, three Shorelarks caught in nets; “nice lot of Bearded Tits are said to have come in from a great height, and from the E.” *Galloper* L.V., large flocks Curlews, Starlings, and Larks, all night, to W.

NOVEMBER 14th.—*Farn* L.H., flock of Long-Tailed Ducks, 11 A.M., to N. *Tees* L.V., two Woodcocks, one Kingfisher. (N.N.E., rain.) Shot at South Gar Light. *Cromer* L.H., five Willow Wren, at daylight (Goldcrests?). *Yarmouth*, Swan, two, Breydon. *Swin Middle* L.V., Stormy Petrel, on board. Thrush, 3.30 A.M. *Goodwin* L.V., flocks Larks, at noon, to W. (E. by N., 6; c. v., rain.)

NOVEMBER 15th.—*Farn* L.H., Blackbirds and Thrushes, flying about. (W.N.W., 3.) *Flambro'*, White Kittiwake, shot by Thomas Leng. *East Goodwin* L.V., two flocks Black Crows, E. to W. *Hanois* L.H., Blackbirds and Thrushes, 2 to 3.30 A.M., round lantern. (E., 4; o. m.)

NOVEMBER 16th.—*Redcar*, about 500 Geese seen at sea going S.E. Flock of about 500 Lapwings to S.W.; great many Red-Throated Divers to S.E. (N.W., moderate.) *Tetney*, Fieldfares, large flocks. (S., hard frost.) *Inner Dowsing* L.V., twelve Larks and one Sparrow, 9 A.M., flying low, E. to W. (N.W. by W., 3.) *Hanois* L.H., flight Chaffinches, mostly males, at 11 A.M. (E.S.E., 4)

NOVEMBER 17th.—*Tetney*, Goosander, two shot. *Cromer* L.H., Tufted Duck (wing sent), 5 A.M., killed on lantern. (S., 5.) *Swin Middle* L.V., many Gulls and Ducks, over sand. *Hanois* L.H., flight, 17th to 18th, Blackbirds and Thrushes, flying round lantern at 10 P.M., some striking; many Lapwings at 1 A.M., none striking. Large flock Golden Plover and Yellow Wagtails at 1.30 A.M., one Yellow Wagtail killed. (S.E., 3; o. m.)

NOVEMBER 18th.—*Farn* L.H., Curlew Sandpipe shot. *Hasbro'* L.V., Jacksnipe (wing sent), 3 A.M., killed. *Yarmouth*, Redshank (Breydon); four seen. *Swin Middle* L.V., a few Larks, 2 to 6 A.M.; six killed. (W.N.W., 2; o. m.) *Goodwin* L.V., a few larks at night. (N.W., 4.) *S. S. Head* L.V., Larks and Linnets, 9 A.M. to 4 P.M., to N.W.

NOVEMBER 19th.—*Hasbro'* L.V., Coot, 3 A.M., dead on deck.

*Cromer* L.H., Starlings, all night. (W., 4.) *Yarmouth*, Gadwall, seven (probably Norfolk bred). *Langward* L.H., large flock Golden Plover at noon, high, to N.E. *S. S. Head* L.V., twenty Rooks, 9 A.M., to N.W.

NOVEMBER 20th.—*Galloper* L.V., Starlings and Larks, 6 P.M. to midnight. (Calm, o. m.) *S. S. Head* L.V., flocks Larks, noon, to W.N.W. *Hanois* L.H., Gannets, old and young; daily fishing.

NOVEMBER 21st.—*S. S. Head* L.V., flocks of Larks and Mountain Sparrows, 9 A.M., to W.N.W. (N. by E., 2; fog.) *Varne* L.V., ten Crows, 3.15 P.M., S.E. to N. (E., 2.)

NOVEMBER 22d.—*Farn* L.H., twelve Fieldfares and one Blackbird, on island. (E., 4.)

NOVEMBER 24th.—*Redcar*, about a dozen Wood Pigeons to S.W. at 11 A.M., and two at noon. *Tetney*, Great Spotted Woodpecker.

NOVEMBER 25th.—*Cromer* L.H., flocks Crows all day, mostly E. to W. *S. S. Head* L.V., Rooks and Sparrows, 9 A.M., to N.W. (W.S.W., 4.) *Hanois* L.H., Heron to E., 11 A.M.; [and on 27th, several to S.E., flying very high, at 10 A.M. (W.N.W., 4.)]

## DECEMBER.

DECEMBER 1st.—*Tetney*, Grey Phalarope shot; Snipe, "many heard passing over to S. at dusk, when in a duck-punt off Tetney Haven."

DECEMBER 2d.—*Redcar*, great many Snow Buntings to W.N.W.

DECEMBER 3d.—*Tees* L.V., large flock Larks to N.W. Four Sparrows came on board. *Swin Middle* L.V., some Larks on 2d and 3d, to N.W.

DECEMBER 4th.—*Cromer* L.H., Buzzard, 11.30 A.M., N.E. to S.W.; six Blue Titmouse.

DECEMBER 6th.—*Tetney*, Snow Bunting, one at low-water mark, many coming in at dusk. (S., strong, rain.)

DECEMBER 7th.—*Coquet* L.H., Fieldfares all day. (S.S.E., 5.) *Tees* L.V., flock Snow Buntings, to S. *Redcar*, one Glaucous Gull seen, immature.

DECEMBER 9th.—*Tees* L.V., two Sparrow Hawks to N.W. *Redcar*, about one hundred Grey Geese, high to S. (W.N.W., light.) *Whitby* L.H., large flock Geese, 8 P.M., round light. (N.W., 6.)

DECEMBER 10th.—*Whitby* L.H., small flocks Fieldfares and Thrushes, 8 A.M., went S.

DECEMBER 12th.—*Farn* L.H., great many Lapwings and Plover, Purple Sandpipers, some Redshanks, and Turnstones about island. *Outer Dowsing* L.V., fifty Black Crows, 4.10 P.M., N.W. to S.E.

DECEMBER 13th.—*Farn* L.H., three Blackbirds, several Thrush, one Snipe, on island. (S.S.W., 4.) *Winterton* L.H., Starlings, 6 A.M., at lantern. (S.S.W., 6.)

DECEMBER 14th.—*Coquet* L.H., Starlings and Larks all day. (W.S.W., 5.) *Redcar*, one Woodcock, picked up dead on shore.

DECEMBER 17th.—*Farn* L.H., flocks of Starlings all day to W. (W.N.W., 7.) *Tetney*, Goldfinch, one. (Have been very common in North-East Lincolnshire in December, also January 1888); a few Brambling.

DECEMBER 21st.—*Languard* L.H., two Kentish Plover, 8 A.M., went W. (N., 4.)

DECEMBER 22d.—*Farn* L.H., several Hedge Sparrows and one Wren on island.

DECEMBER 23d.—*Whitby* L.H., great many Grey Crows, Fieldfares, Linnets, Finches, and Sparrows, 10.30 A.M., seen near station. (N.N.E., 5.) *Cromer* L.H., several flocks Gannet all day, S.E. to N.W. (N.W., 5.)

DECEMBER 24th.—*Languard* L.H., Stormy Petrel, 4.20 A.M., caught on lantern. (N.W., 4; O. M. P.)

DECEMBER 25th.—*Whitby* L.H., very large Hawk, several days about cliff.

DECEMBER 26th.—*Tees* L.V., Cormorant came on board to-day, and has come to roost for several days, but disappeared suddenly. *Redcar*, six Swans, five white and one grey, at sea to W.; eight off Tees mouth.

DECEMBER 27th.—*Farn* L.H., one Woodcock (N., 1) shot; Blackbirds and Thrushes. *Cromer* L.H., small flocks Fieldfares. (W., 4.)

DECEMBER 29th.—*Spurn*, a few Short-Eared Owls. *Swin Middle* L.V., 22d and 17th, flock "Splendid" Ducks (Sheldrake?). Large quantities of various Ducks, chiefly Scoters, seen near the vessel in December, also January 1888. On the 12th the vessel was surrounded with Black Ducks, as far as could be seen with a telescope.

DECEMBER 31st.—*Farn* L.H., small flocks of Long-Tailed Ducks to N.

LIST OF WINGS SENT FROM LIGHTHOUSES AND LIGHT-VESSELS,  
EAST COAST OF ENGLAND.

Station.	Date.	Species.
	1887.	
Spurn L.H. . . . .	Oct. 3, 4 A.M.	Wren.
„ . . . . .	Nov. 4, 3 A.M.	Tree Sparrow.
Cromer L.H. . . . .	„ 18.	Tufted Duck (male).
„ . . . . .	Sept. 17, 3 A.M.	Osprey. <sup>1</sup>
Happisburgh L.V. . . . .	„ 3.	Arctic Tern.
„ . . . . .	„ 15.	Whitethroat, two.
„ . . . . .	Nov. 7.	Great Tit, two.
„ . . . . .	„ 18.	Jacksnipe.
Leman and Ower L.V. . . . .	Aug. 5.	Skylark.
„ „ . . . . .	Sept. 26.	Jacksnipe.
„ „ . . . . .	Oct. 7.	Linnet.
„ „ . . . . .	„ 8.	Greenfinch.
„ „ . . . . .	„ 26.	Greenfinch. <sup>2</sup>
„ „ . . . . .	Nov. 11.	Water-rail.
Nore L.V. . . . .	Oct. 10.	Thrush.
„ . . . . .	„ „	Chaffinch.
„ . . . . .	„ „	Tree Sparrow.
„ . . . . .	„ „	Greenfinch. <sup>3</sup>
Kentish Knock L.V. . . . .	„ 9.	Brambling, six.
Goodwin L.V. . . . .	Sept. 20.	Wryneck.
Hanois L.H., Guernsey . . . . .	Oct. 6.	Pied Wagtail, two.

SUMMARY AND GENERAL REMARKS.

In January depressions of very considerable size passed by our north-western and northern shores after the 2d, with very sudden changes of temperature of an unusual character and great magnitude; showers of cold rain, sleet, and hail from day to day, and very severe frosts at night. There are very clear indications in the diary of Migration, that the atmospheric disturbances were concurrent with a great rush of birds going south along the coast. Those chiefly noted being Fieldfares, Blackbirds, Thrushes, Redwings, Larks, Chaffinches, Linnets, Starlings, and some Crows.

<sup>1</sup> “Shot from flagstaff, as seen when ray of light came round and illuminated it.”

<sup>2</sup> “Great numbers on board in afternoon, and died from exhaustion. The survivors took off along with some Crows, coming from E. and going N.W. (4, B. C.)”

<sup>3</sup> Mr Thomas Littlewood says—“These four species on deck at sunrise too weak to fly.”

In the latter part of February and throughout March there are indications of the passage of Crows, Rooks, Daws, Starlings, Larks, and others to the Continent, also in the opposite direction to the S.E. Coast of England. Great numbers of Starlings, Thrushes, and Larks were also observed at the lanterns at night, the particular direction of their flight being not apparent.

A Blackcap (*Sylvia atricapilla*) is recorded at the Cockle L.V. on March 31st, after which the first actual indication of the Spring migration is the occurrence of Swifts (*Cypselus apus*) at the Spurn on April 5th, arriving at 6 P.M., and resting on the window sills all night; on the same day at Great Cotes several male Wheatears were seen. The Spring migration of the Wheatear (*Saxicola œnanthe*) is last recorded at the Farn L.H. on the night of May 30th, several round the lantern; and at the Tees L.V. on June 5th, two to N.W.

Puffins (*Fratercula arctica*) arrived at their breeding quarters on the Farn Islands on March 30th, a very early date. Continuous flocks with Wild Ducks were seen at the Outer Dowsing L.V. on April 12th, going S.S.E.; at the same date a Woodcock was killed at the Swin L.V. The Swallow (*Hirundo rustica*) is first seen at the Galloper L.V. on April 11th, going N.W. Many at the Hanois L.H., Guernsey, on the same day, with Willow Wrens and Whitethroats. At the Shipwash L.V., Swallows were observed at intervals passing from S.E. to N.W. up to June 4th.

Snow Buntings (*Plectrophanes nivalis*) were last seen at the Spurn on April 20th. The Cuckoo is first recorded at the Isle of Thanet on April 24th, and the Yellow Wagtail (*Motacilla raii*) on the 25th.

There appears to have been a heavy rush of the smaller summer visitants on the S.E. coast, from the Isle of Thanet to Hunstanton, at early morning of the 29th of April. A very strongly pronounced movement was also observed at Hanois L.H., Guernsey, on May 2d. The weather, in the first instance, being rainy and unsettled in S.E., and very cold over England with N.E. winds. On the 30th, thunderstorm in S.W. of France, with very cold, unsettled, and rainy weather generally in the south.

Various shorebirds and waders were observed passing down the coast from S. to N., on May 12th and subsequently.

A Moorhen (*Gallinula chloropus*) was killed at the Cockle L.V. on the night of May 21st; another at the Goodwin L.V. on the night of October 16th.

A Bearded Reedling (*Panurus biarmicus*) was seen at the Languard L.H. on February 16th at 7.40 A.M.; and from Yarmouth on November 13th is the note, "nice lot of Bearded Tits, are said to have come in at a great height, and from the E."

The autumn movement commenced early in July, but did not become very distinctly pronounced before the beginning of August. One of the most interesting features of the autumnal migration has been the simultaneous occurrences of the Pygmy Curlew (*Tringa subarquata*) and the Little Stint (*Tringa minuta*) on the East Coast, between the Tees and Yarmouth. The former species is first recorded from Redcar on August 16th and from the Spurn on August the 23d. The Little Stint in the same locality on the 25th. Both were present there in very large numbers on September 2d, with a S.W. gale. The Pygmy Curlew was seen last on the Norfolk coast on October 8th, and one, Farn Islands, on November 18th.

The Woodcock is first recorded at Seaton-Carew, Durham, on September 19th, and at Cromer L.H. on September 25th, from 12.30 to 2.30 A.M. (S.E., 4.) Our observer, Mr Comben, says, "never saw so many Woodcock at one time before, there seemed to be a constant stream flying round lantern, none struck." Woodcocks appear to have come in at irregular intervals between September 30th and November 3d. The greatest number perhaps on the 9th, 10th, and 11th of October. Throughout September there was a steady and almost daily increasing migration observed at East Coast stations, but from the 29th and throughout October to November 3d, there was an almost continuous night and day rush of immigrants, the chief of those recorded being Crows, Rooks, Daws, Starlings, Larks, Chaffinches, Linnets, and Sparrows. In fact, during this time much the greater proportion of the entries in the schedules consists of a weary reiteration of these readily distinguished species. The weather during the period of this great invasion was up to the 25th of October mainly anticyclonic, cold, quiet, and dry. The prevailing wind N. and N.-easterly. After the 25th, cyclonic with W. and S.-westerly winds, wet, rough, and

milder. The average temperature of the month was much colder than the corresponding months in the two preceding years. It does not appear that the change of weather and of the wind after the 25th, had any influence on the migratory movements, birds continuing to pour in with undiminished numbers. Indeed, the direction and force of the wind appears to have little to do in controlling these great autumnal rushes, for when the time for crossing the North Sea has come, birds cross independent of weather. It must be admitted, however, that the prevailing wind at the time is an important factor in governing the direction in which migrants travel, and the angle at which the line of flight will intersect the line of coast. To changes of temperature either sudden or gradual, rather than the force and direction of winds, we must probably look for the impelling cause of these seasonal phenomena.

After the 3d and to the 19th of November, birds continued to arrive, but in greatly reduced numbers, the throbs and pulsations of the great inrush becoming daily more feeble and less sustained. After this date to the end of the year, migration was more or less spasmodic, the entries in the schedules being chiefly confined to the occurrences of various birds seen in the vicinity of the stations.

Swans and Grey Geese have been remarkably scarce. Brent Geese (*Bernicla brenta*) fairly numerous. All accounts agree that it has been an extraordinary Duck year, large numbers of various species frequenting all favourable localities along the East Coast. The Common Scoter (*Edemia nigra*) has occurred in enormous flocks, also a few *Æ. fusca*. Considerable numbers of the Long-Tailed Duck (*Harelda glacialis*) have visited the coast from the Farn Islands to Yarmouth.

Amongst the rarer and more interesting species we may notice the occurrences of *Tringa temmincki* (three) at the Spurn, also *Podiceps nigricollis* at the same place. *Anthus richardi* at Tetney. *Cypselus melba*, *Recurvirostra avocetta*, and *Tringa maculata* at Yarmouth, also *Pandion haliaëtus* at the Cromer lighthouse.

It is unfortunate that we do not know more about those smaller night wanderers which are usually entered in our schedules under the general name "Flycatchers" or "various small birds." The wings occasionally forwarded are always



very interesting, and, what is most important, give definite and reliable results. As a rule all these small insect-eating species get lumped together as "Flycatchers," a result not to be wondered at considering the circumstances under which they are seen, helplessly fluttering against the lanterns, or dancing like gnats in the yellow glare. Those "hundreds of Flycatchers," from midnight to 4 P.M., seen at the Swin L.V. on the night of April 29th, no doubt represented many species of our small summer visitors, and the Spotted Flycatcher (*Muscicapa grisola*) was not seen in the Isle of Thanet before May 4th.

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## WEST COAST OF SCOTLAND.

IN the same way as we treated of the East Coast returns, we treat the West Coast. The contents of one or two schedules written across the columns have been omitted for reasons before stated, more especially as none of these are of great importance.

## LIST OF STATIONS.

In 1887, Schedules filled in.	Returns in 9 years, including 1887.	In 1887.	LIST OF STATIONS.	Values.	Feet.
SUTHERLAND.					
0	4	81.	Cape Wrath, .....	III.	400
0	4	82.	Rhu Stoir, .....	II.	195
OUTER HEBRIDES.					
3	8	* 83.	Butt of Lewis, .....	I.	170
0	3	84.	Stornoway (2 Lights), .....	{ II. I. }	{ 56
0	3	85.	Island Ghlais, .....	I.	130
8	8	* 86.	Monach Islands, .....	{ I. II. }	{ 150 62
0	2	87.	Ushenish, N. Uist, .....	VI.	176
2	5	88.	Barra Head, .....	II.	683
1	4	* 89.	Rona, Skye, .....	IV.	222
3	8	* 90.	Kyleakin, W. Ross, .....	IV.	53
0	2	91.	Isle Oronsay, .....	I.	58
0	2	92.	Ardnamurchan, .....	I.	
4	9	* 93.	Skerryvore and Hynish Signal Tower, Tiree, .....	II.	150
4	9	* 94.	Dhuheartach, .....	I.	146
0	6	95.	Sound of Mull, .....	V.	55
0	0	96.	Corran Ferry, .....	IV.	38
0	4	97.	Lismore, Oban, .....	I.	103
0	2	98.	Fladda, Easdale, .....	VI.	42
0	4	99.	Rhuvaal, .....	IV.	147
0	7	100.	M'Arthur's Head, .....	IV.	128

The names of the Reporters are given under  
"Diary from the Stations."

OUTER HEBRIDES—*continued.*

In 1887, Schedules filled in.	Returns in 9 years, including 1887.	In 1887.		Values.	Feet.
3	9	*101.	Skervuile,.....	II.	73
9	9	*102.	Rhinns of Islay,.....	IV.	159
8	4	*103.	Lochindaul,.....	IV.	50
0	0	104.	Mull of Cantyre,.....	VI.	297
0	0	105.	Sanda,.....		
0	0	106.	Devaar,.....	II.	120
0	0	107.	Pladda, Arran, .....	II.	130
1	6	*108.	Lamlash, Arran, .....	IV.	46
0	4	*109.	Turnberry, Ayrshire,.....	IV.	96
3	1	109B.	Ailsa Craig, 1885.....		
1	8	*110.	Corsewall,.....	IV.	112
0	0	111.	Loch Ryan,.....	I.	46
0	7	*112.	Portpatrick, .....	I.	37
1	8	*113.	Mull of Galloway,.....	II.	325
4	5	*114.	Little Ross,.....	IV.	176

The names of the Reporters are given  
under "Diary from the Stations."

*Diary from the Stations.*

*Butt of Lewis.*—Mr Robert Agnew, son of Mr Joseph Agnew (now at Monach Isles), sends three well-filled schedules, one being devoted, as requested, to Solan Geese after the date of September 4th.

*Monach Isles.*—Mr Joseph Agnew (late of Isle of May) sends eight schedules, one for Solan Geese. Mr Agnew says, "The Merganser is by far the most abundant of the ducks. . . . All Curlews come from the N. East, not one coming from the south (August). After coming so far, they turn inland; and, I have no doubt, the old are leading the young to previously well-known feeding grounds." "Geese seen flying S.E., as if from St Kilda" (August 17th). Statement that "one pair, at least, of Turnstones bred at Monach this year requires confirmation" (20th August). "Terns flying S.W., remarked as unusual" (30th). "I feel the place lonely to-day without the Terns. They must have *seen* their friends passing yesterday, and have gone off in pursuit" (31st August). "Sandpipers of sorts numerous by 1st September." "From 50 to 100 Cormorants on a rock remain fishing." October 22d: "I have never seen such a rush of Redwings alone without any admixture. They commenced to come about 7 P.M. *last night*, and continued

to 'strike' till 4 A.M.; but many remained at the lantern till daylight. They were mostly all fine old birds. Most of those killed were on the N.E. side, so they must have been flying dead against the wind, which was blowing strong from the S.W." . . . "It appears a S.W. wind here is best for migration." "Greenfinches and Bramblings noted on 27th, with a gale from the S.W. Very heavy migration."

Mr Agnew's letter of the 7th November 1887 is well worthy of careful perusal, but is too long for insertion here;<sup>1</sup> but the following short extracts, or digest, may be acceptable:—"The surprises I have met with during the last month beat all previous ones (as shown in the schedule to date). One of the few Goldcrests taken in the Long Island was found dead amongst other species."

On November 4th Mr Agnew reports the rushes of migrants as "very extraordinary." "That of yesterday larger than that of 1st," and in moonlight and clear. The advanced guard were Starlings from N.E., flying down the coast line, with wind "on the port bow." [Note.—Mr Agnew's notes are so voluminous and so interesting, that I hope some way may be found to utilise them more fully. Many letters deserve a better fate than oblivion. A great variety of species participated in this rush, including Woodcock.—J. A. H.-B.]

*Barra Head.*—Mr Chas. M'Fadzen sends two carefully filled schedules, in which the Geese referred to are mostly Barnacle.

*Rona.*—Messrs D. Dunnet and J. A. M'Gaw send one filled schedule, from February 15th to November 12th, with the further note: "Migration of birds here fewer in numbers than former years. Solan Geese all summer as usual."

*Kyleakin.*—Messrs D. MacCulloch and John Clyne send three well-filled schedules. Rush noticeable early in November, but greater rush 10th December of Larks and Linnets, yet not one seen near the lanterns.

*Skerryvore.*—Mr Thomas Dawson sends four good schedules—two on Solan Geese. Under date of 1st October, he says, whilst having little of importance to relate, that he witnessed a remarkable tussle between three Gannets and a large fish, two coming to help the first, which had remained a long time

<sup>1</sup> The materials have been utilised for a forthcoming work on the "Vertebrate Fauna of the Outer Hebrides."

under water after striking, whilst no doubt struggling with its prey.

*Dhuheartach*.—Messrs Wm. Davidson and J. W. M'Guffie send four good schedules. The Siskin occurred on the 10th November, and was sent for identification, having been caught on the lantern. "Heavy rush" all night of 11th.

*Skervuile*.—Mr John Ewing sends three filled schedules down to November 21st, after which no more migration was observed. Harvie-Brown visited Skervuile and landed on the whales-back-looking rock on which the lighthouse is founded, and which is awash with the sea.

*Rhinns of Islay*.—Messrs Peter Anderson and James Ducat send nine carefully filled sheets, and write nearly each time at length. At the same time we are now, thanks to these reporters, obliged for a much more minute, and day-to-day return for each month of the year, most carefully prepared under species and in tabular form, which cannot fail to prove interesting and useful to work from. These date December 1886 to February 1888. The Rhinns of Islay must be looked upon as quite one of the most important West Coast stations for migration.

A Manx Shearwater is reported as caught on the lantern on the 20th April, and another was seen next morning. They are the first of the kind the keepers ever remember seeing. The occurrence thus makes it appear that Manx Shearwaters probably pair early, if they do not pair for life.

On August 2d, clouds of Midges round the lantern; and on 13th, from twenty to thirty Daddy-longlegs were captured. This season the very worst for Caterpillars (or "Kail-worm"). Glass rarely below 60° on the N. side at midnight, and again as warm on 10th September. [*Note*.—The warm weather about this time was universal.—J. A. H.-B.]

"The only rush we have had has been of Larks, and they have been in greater numbers than any year since I came here. One solitary Redwing is all I have seen this year. We have had such a long time of N. and N.W. winds. Best winds are S. to S.E. to bring the most birds. On October 9th, 1000's of Puffins appeared "flying North;" Iceland Gull on 10th; six Choughs seen on island on 16th, no doubt local birds. Heavy returns from October 19th onwards to 25th, of Larks and Starlings. Local visitation of Rooks owing to shooting going on

through the island, and their leaving the rookeries at Bridgend, etc.; also Jackdaws. No great migration recorded in November of small land birds. (Compare with Monach Isles returns.) Iceland Gull seen at head of Lochindaul on the 9th of February 1888 (*in lit.* 15th February 1888.)

*Lochindaul: Islay.*—Mr James Edgar sends eight carefully filled and interesting schedules. Reports a Shearwater at the lantern on 21st April; it rested all night. [No doubt the same bird seen the day before at Rhinns of Islay along with the one which was killed. This is interesting, as showing a line of flight and the certainty bright lights have of luring birds to them.—J. A. H.-B.]

*Lamlash.*—Unsigned: one small return of five entries, between March 10th and September 17th, of Curlews, Thrush. Cuckoo heard. 25th April, Snipe and Geese.

*Ailsa Craig.*—Our first returns sent from the “Old Rock” are very full in interest, and date January 9th, 1887, to December 20th, occupying three schedules, by Mr William J. Dawson. “An Eagle seen on the hill on 19th October and previously; ‘very large,’ and probably a Sea-Eagle. Remained for more than three weeks. On 20th December a Carrier Pigeon was chased into the yard by two Peregrine Falcons (a pair build on the cliffs every season). They captured it next day. On the 20th January 1888, another Carrier was seen with a paper attached to it, and the Falcons were in pursuit of it. Most likely it shared the same fate as the other.” [If any one can throw further light on this rather interesting note, we would be obliged. It serves, at least, to show one danger which Carriers may be subjected to.—J. A. H.-B.]

“Very few birds come near this light, the lantern revolving so rapidly. When I was at Pladda there were great rushes of birds at different times both in spring and autumn, and large numbers were found dead.” [Our Committee has never received a single return from Pladda. This chance note may yet be valuable.—J. A. H.-B.]

*Corsewall.*—Mr Robert Laidlaw sends one well-filled schedule, and notices the rushes of Blackbirds and *Turdidæ* in October, and of the same and *Fringillidæ* (Linnets, etc.) in November.

*Mull of Galloway.*—Messrs Alexander Murray and John

M'Quarrie send one schedule, also well filled, to date of September 17th.

*Little Ross.*—Messrs Neil M'Donald and Robert MacIntosh send four good schedules. Petrel found dead at foot of tower, 23d January. Spring migration considerable, but decidedly scarce on the autumn migration, as compared with some other West Coast stations.

#### REMARKS.

PELECANIDÆ.—Of Gannets, by request, we have had a number of schedules entirely devoted to them at some of the more prominent stations of both East and West Coasts; but as these, with other accounts already published, constitute material for a very thorough treatment of the movements of the species, and their relations to the migrations of the Herring, we do not think it advisable in this place to occupy space with them.

#### SEPARATE REPORT UNDER GENERA AND SPECIES.

TURDIDÆ.—Appears to have been the most numerous migrants in 1887.

*January.*—A rush marked at Ailsa (1886 Report, *q.v.*), and a few singles.

*February.*—Skervuile, 15th to 21st, "Blackbirds and Thrushes." Turnberry, "many do. on 25th." At Little Ross, fewer, on 16th and 17th.

*March.*—Stations are: Skerryvore (one), and Dhuheartach (one). Rhinns of Islay, a few records of Blackbirds, Thrushes, and Redwings. "Rush" at Ailsa Craig on 11th; strong N.E. breeze, snow. Little Ross, scattered records between 1st and 26th of Thrushes and Blackbirds.

*April.*—Only record is of two Fieldfares at Little Ross on 20th. Nothing in May to *September*—intermittent of Thrushes, only four dates at four places, viz., Barra Head, Kyleakin, Dhuheartach, and Corsewall.

*October.*—Numbers travelling, yet not so very densely. Rush of Thrushes on 16th at Corsewall. Great numbers of Redwing at Butt of Lewis, 21st and 22d; and one Fieldfare on 30th there. Other stations: Dhuheartach, Rhinns of Islay (Redwings), Lochindaul, Corsewall, and Little Ross.

*November.*—At Monach Isles surprising numbers of Fieldfares and Redwings, rushing between 1st and 12th; great numbers of Redwings (see Diary); also on 1st, 10th, 11th (many Fieldfares). Large numbers Mavis on 11th; also Blackbirds, scarcer. Rush felt most elsewhere at Skerryvore and Dhuheartach, also on 11th; strong N.E. breeze!! all night. Many killed at both these places. Lighter at Skeryuile (Missel Thrushes also), Fieldfares and Redwings; and at Lochindaul, 4th to 9th to 20th, and Corsewall (generally full and large), but concentrated most at Monach, Skerryvore, and Dhuheartach. Continued lightly into December at same stations.

SAXICOLINÆ.—*February.*—8th, one “Stonechat” at Little Ross.

*March.*—1st, one Whinchat at Dhuheartach. 4th, one “Stonechat” at Rhinns of Islay. [These “Stonechats,” “Whinchats,” and “Wheatears” must, we fear, be hopelessly mixed always, as the correspondence now, to fix it, would entail enormous labour.—J. A. H.-B.]

*April.*—12th, Wheatear at Butt of Lewis; and 6th, ditto at Corran Ferry; and 13th and 20th, a few ditto at same place. Whinchat at Dhuheartach on 15th, and Wheatear on 17th. Other records at Rhinns of Islay, Ailsa Craig (27th), and Little Ross (11th and 12th).

*May.*—Two entries only at Dhuheartach (11th and 17th); W., N.W.

*August.*—Records all the month—no great numbers, except “numbers” at Little Ross on 7th—distributed as follows:—Butt of Lewis; Barra Head; Rona, Skye; Skerryvore (21st); Dhuheartach (21st); Skervuile (1st, 2d, 3d, 5th, 7th, 10th, 12th, 15th, a few; 16th, 25th, 28th, pair; 30th, 31st—all in small numbers); and Little Ross, 7th (a number), and 11th; winds variable, S.E. and S. to N., rarely W. or N.W.

*September.*—Few, and all left Monach Isles by the 9th; but “many” again there. “Many” on the 22d (“continued on”). At Butt of Lewis also one seen on 21st. At Skerryvore, 3d, 4th, 21st (“Stonechats” in distinction to Wheatears); 26th, ditto; and 25th, Redstart; and at Dhuheartach, 26th, Wheatears; and at Lochindaul, fifteen ditto on 2d, and again one on 14th.

No later records.



*October.*—Only one Stonechat recorded in all from Skerryvore on 2d; moderate W.; on rock.

SILVIINÆ.—Robin, Whitethroat.—*January.*—15th, at Ailsa, two Robins.

*February.*—28th, at Rhinns of Islay, one Robin.

*March.*—2d, at Skervuile, one Robin; light S., rain. 4th, at Rhinns of Islay, one ditto; light S.W. 28th, at Rhinns of Islay, twenty, 9 P.M. to 12 P.M.; W., haze.

*May.*—2d, at Ailsa, two Robins; light breeze, S.; catch flies.

*August.*—23d, at Butt of Lewis, one WHITETHROAT. 28th, at Lochindaul, one Redbreast.

*September.*—From 15th to 29th, at Rona, one *Whitethroat* on 21st. Scattered occurrences of Robins at Kyleakin (one on 15th); Skervuile (one); Rhinns of Islay (23d and 29th); Lochindaul (15th, 19th, 21st, and 28th); Corsewall (23d); Mull of Galloway to November, two entries at Lochindaul (2d and 9th).

PHYLLOSCOPINÆ.—*March.*—30th, one Golderest at Lochindaul.

*May.*—2d, Willow Warblers—one found dead at base of tower of Rhinns of Islay.

*June.*—At Rhinns of Islay, one Willow Warbler found dead in morning.

*August.*—24th, at Butt of Lewis, “Chiffchaff” (?); and at Rhinns of Islay, “Wood Wren” (?) on 22d. On 24th, at Little Ross, Willow Wren found dead at tower.

*September.*—Goldcrests scattered and scarce at Skervuile, Lochindaul, and Little Ross.

*October.*—One at Little Ross on 22d.

*November.*—One at Rhinns of Islay on 5th.

*March.*—Goldcrests scattered and scarce, at Rhinns of Islay, Turnberry, and Little Ross.

*July.*—Two entries only at Corsewall and Little Ross.

*September.*—Three records at Mull of Galloway and Little Ross.

*October.*—Eight Golden-Crested Wrens at Little Ross. [*Note.*—Golden-Crested Wrens having been entered in ledger under *Troglodytidae* or “Wrens,” have got a little out of place.] Very restricted migration. One obtained at Monach (rare).

ACROCEPHALINÆ.—*September.*—3d, one Sedge Warbler at Little Ross.

TROGLODYTIDÆ.—*Wren.*—One on April 5th at Ailsa; one at

Skerryvore on 6th, on the rocks; and "great numbers different kinds of Wrens" on 11th at Corsewall, probably Goldcrests, Common Wrens, Warblers; light N.E. Scattered notices only of Common Wren, not of much significance.

*MOTACILLIDÆ.*—*March.*—15th, at Monach, a Grey Wagtail [we suspect the Pied is meant, as the true *Grey* is really yellow with black throat.] Wagtails also at Lochindaul on 12th, and at Little Ross on 14th.

*April.*—On 29th, at Monach, two, and on 9th; N.E., light. At Lochindaul, a pair; N.E., light (flying as Agnew describes).

*May.*—Between 7th (at Butt of Lewis) and 26th, at Little Ross, a few records on five dates, inclusive, at these stations and intermediately at Monach, Kyleakin, and Dhuheartach.

*July.*—Two records at Kyleakin on 22d, and on 15th at Lochindaul.

*August.*—23d, at Butt of Lewis. Scattered records, few and far between, at Skerryvore, of "Grey Wagtails" (?); and of other Wagtails at Lochindaul; and one at Little Ross on the 1st.

*September.*—No great rush, except "many all day at Little Ross of Grey Wagtails" (?) [probably winter Pied Wagtails.—J. A. H.-B.] on 18th. (See remarks in previous Reports on Wagtails, on General Post-Office, Edinburgh.) Scattered at Rhinns of Islay, Lochindaul, Mull of Galloway, and Little Ross, during the month.

*October.*—Three records only on 5th, 7th, and 25th, at Rhinns of Islay and Lochindaul.

*December.*—One record of three at Rhinns of Islay on 19th.

*ANTHIDÆ.*—*March.*—A number on 1st, at Monach, and very plentiful on 7th. Stray birds at Dhuheartach on 20th and 21st.

*April.*—Titlark at Dhuheartach on 1st and 13th.

*August.*—19th, at Rona, Titlarks; and Rock Pipits at Lochindaul on 25th.

*September.*—Titlarks in small numbers from 12th to 13th—no rush—at Butt of Lewis, Dhuheartach, and Skerryvore.

*October.*—Two records at Skerryvore and Dhuheartach.

*November.*—One on 9th at Skerryvore.

*MUSCICAPIDÆ.*—*August.*—Only on 27th, at Mull of Gallo-

way, one; S.E., haze to fog. On 29th, two; fresh S. breeze; and "Flycatchers" flying about all night on 30th; S., fresh breeze.

*HIRUNDINIDÆ.*—*May.*—26th, at Butt of Lewis, one, 9 A.M.; light W. breeze, clear. 6th, at Dhuheartach, one swallow; light S.E. breeze, flying E. 17th, at do., one swallow; strong S.W. breeze about rock. 6th, at Rhinns of Islay, eight swallows, 11.30 A.M.; strong E., haze, flying N. 7th, at do., five swallows; strong E., haze, flying about. 9th, at do., three swallows; N.N.W., fresh haze, flying about. 10th, at do., two swallows, 1 to 3 P.M.; flying about. 3d, at Lochindaul, one Martin (first seen). 4th, at do., one pair Martin; N.W., flying about. 17th, at Ailsa, four pair Martins; S., clear. 12th, at Little Ross, two pair Martins; W., clear.

*June.*—At Little Ross, four on 6th; a few on 9th; one on 23d; and one on 24th; W. and light N.E., clear.

*April.*—30th, at Kyleakin, one swallow (first seen); N., clear. Other records at Skervuile (23d), Corsewall (17th), Mull of Galloway (26th).

*August.*—Evidence of a considerable movement, but entries all light comparatively. At Butt of Lewis, one, on 5th; at Kyleakin, one, on 4th; a few at Rhinns of Islay, and singles at Lochindaul to 23d, when "flocks of;" and till 27th. Ailsa, one; and at Corsewall, Mull of Galloway, and Little Ross, Martins flying East, on 13th.

*October.*—Flocks on 4th, at Mull of Galloway, all day. Scattered entries at Dhuheartach, Rhinns of Islay, Mull of Galloway, and Little Ross.

*FRINGILLIDÆ.*—*January.*—Linnets (Twites?) on 22d, at Kyleakin; and at Little Ross, 20th and 27th.

*March.*—Grey Linnets.—Numerous at Monach (? Twites?) on 7th; and on 23d, 1000's crossing from mainland; two, on 30th. [It is nearly certain all these are Twites.—J. A. H.-B.]

*April.*—Great flocks, 4th to 7th, at Little Ross; Linnets and Sparrows reported from Kyleakin, and the latter from Rhinns of Islay on 21st.

*June.*—Linnets at Little Ross, 6th, 7th, and 30th.

*August.*—Grey Linnets at Kyleakin on 22d, flying about.

*September.*—All the month in small numbers. Sparrows "numerous" at Lochindaul about 9th and 10th, and Linnets

also; also at Ailsa on 10th. A few all day, Mull of Galloway.

*October.*—Greenfinches at Monach Isles, a few; and a *Brambling* on 27th, and Green Linnets on 30th; also at Kyleakin and Rhinns of Islay; and at the latter, one Chaffinch on 23d.

*November.*—Large numbers, in flocks and parties, of Greenfinches. 2d to 28th—a *great rush* in comparison with other places.

*December.*—Continuing in numbers all month.

EMBERIZIDÆ.—*March.*—Snow Buntings at Butt of Lewis from N.E. At Monach, a few Grey and Common and Snow Buntings. One Yellow Hammer at Lochindaul.

*May.*—Snow Buntings, five on 23d at Monach Isles; W., light; two days' gale previously from north.

*September.*—20th, one Snow Bunting at Butt of Lewis; N.W., light breeze, clear.

*October.*—At Monach one Snow Bunting; W.S.W., strong. Also at Butt of Lewis, twelve on 18th, W., fresh, haze; and at Rhinns of Islay on 27th, four Yellow Hammers; and on 22d, big flock on Ailsa; and twelve, three days after, on 25th.

*November.*—Stations:—Butt of Lewis, Monach, Lochindaul, and Ailsa for Snow Buntings; "many" at the latter on 27th. Scarcely any migration seen after November.

ALAUDIDÆ.—Trifling in January and March; September, large flocks at Monach on 23d; April (Monach). Numbers in February at several stations [I suspect these are mostly very local flights.—J. A. H.-B.]; a few in March, early leading up. A great rush daily by 28th, at Rhinns of Islay; 11th, at Ailsa (rush); 31st, at Lochindaul, daily. Few after.

*April.*—Few.

*September.*—Great movements reported from Butt of Lewis, Dhuheartach, Monach, and elsewhere. "Rush" about 21st. All October in varying numbers at the stations; and November, "marvellous lots" at Monach; continuing in hundreds in December at the best recording stations.

CORVIDÆ.—(See *Diary*.) Nothing of fresh interest. Choughs in Islay.

CYPSELIDÆ.—Swift at Butt of Lewis on 12th—S.S.W. breeze, rain; and one at same place on 27th August.

STRIGIDÆ.—A few odd records of Owls—May (one), June

(one), September (two), October (one Barn Owl at Rhinns of Islay), November (three Barn Owls at Rhinns of Islay at lantern).

ACCIPITINÆ.—Numbers of records of Hawks on predatory quests (Merlin, Sparrow, Kestrel, Falcon) at almost all times when other birds are there, bulking, of course, at the height of the migratory season, especially of the Waders and Sandpipers.

PELECANIDÆ.—Special schedules for Gannets, and the whole Gannet migration will be undertaken later.

ARDEIDÆ.—No new information to be gleaned.

ANATIDÆ.—Eiders.—100 at Monach on *March* 7th, coming from the north; and 50 on 8th, males and females. Small flocks—ten to twenty-five—on 5th, 6th, 10th, 12th, 13th at Rhinns of Islay, and on 11th and 24th *April*.

Again in *May*, Merganser Ducks at Monach—came on 28th, left on 30th. Eider continued to be seen during May in flocks here and there, and fewer in June.

Generally Ducks and Geese appeared abundant in September, October, and November. Consisted of the following species recorded:—"Wild Geese," Eiders, Wild Ducks, Mergansers (Monach), Barnacle Geese (Barra Head), Teal Duck? (Barra Head). At the following stations:—Butt of Lewis (Eiders and Wild Geese); Monach (Eiders, Wild Geese, Mergansers—very abundant, and a few Wild Duck); Rona (Eiders); Kyleakin (Wild Geese); Barra Head (Barnacle Geese, Teal Duck?); Skerryvore (Barnacle Geese, Eiders); Dhuheartach (do. do.); Rhinns of Islay (Wild Geese, Eiders abundantly, and Ducks of sorts); Lochindaul, etc., etc.

CHARADRIIDÆ.—Oyster Catchers; nothing new. Golden Plovers, no great autumn movement. Few other records at all of Lapwings, Ring Dotterels. A sort of rush of Lapwings in August, 1st to 24th; at Lochindaul, greatest on 14th, but flocks for days before. A few seen at Ailsa Craig, and one only at Mull of Galloway.

*September*.—Few records at all.

*October*.—Lapwings entirely at Rhinns of Islay, and in November the same.

SCOLOPACIDÆ.—Curlews universal; nothing new. Other species mentioned all through the year. *Whimbrel* at Rhinns of Islay (May), forty in a flock; rested. *Jack Snipe?* at Butt of Lewis, 25th August. Snipe: Woodcock (in November), 12th

only ; at Rona, Skye, and at Dhuheartach same date. (Scarce this season, at least, as seen on migration.) Most of the records here apply, and bulk with Curlew. Sandpipers, Redshanks, Dunlins at several stations also.

STURNINÆ and LARIDÆ.—Nothing of much fresh interest Besides commoner species, the following are noticed:—Boat-swain Birds (15th August, at Skervuile) ; Skuas and “Dirty Allens,” “Small Gulls” (at Skervuile, 17th July) ; Iceland Gulls (Rhinn of Islay), etc.

ALCIDÆ, COLYMBIDÆ.—Unusually abundant in Autumn at most stations, but do not warrant special remark here.

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## WEST COAST OF ENGLAND AND WALES, AND THE ISLE OF MAN.

SCHEDULES and letters of instruction, with stamped envelopes for wings, were sent to the fifty-three under-mentioned lighthouses and light-vessels on the West and South-West Coasts of England, the Coasts of Wales, and the Isle of Man, and returns have been received from the thirty-four stations marked with an asterisk.

The following is an enumeration of the stations included in this section of the Report :—

Isle of Man.	{	No. on Map.			
		115.	L.H.	Point of Ayre.	
		116.	L.H.	Douglas Head.	
		*117.	L.H.	Langness,.....	Mr Robert Clyne.
		*118.	L.H.	Chickens Rock,.....	Messrs Black and Beggs.
		*119.	L.V.	Bahama Bank,.....	Mr John West.
N.-W. England.	{	*120.	L.H.	St Bees,.....	Mr Henry Nott.
		*121.	L.V.	Selker, .....	Messrs Daniel Kneale and George Cumming.
		*122.	L.V.	Morecambe Bay,.....	Mr Henry Clavell.
		*123.	L.V.	River Dee,.....	Mr S. Work.
North Wales.	{	124.	L.H.	Air.	
		*125.	L.H.	Menai,.....	Mr Joseph Steer.
		*126.	L.H.	Skerries Rock,.....	Messrs Rees, Smith, Tom- kinson, and Williams.
		*127.	L.H.	Holyhead Breakwater,	Messrs Prichard, Roberts, and Hughes.
		*128.	L.H.	South Stack,.....	Mr W. R. Burgess.
		*129.	L.V.	Carnarvon Bay,.....	Messrs Thomas and Hughes.
		*130.	L.H.	St Tudwal's, .....	Messrs Davies and Parsons.
		131.	L.H.	Bardsey Island,.....	Mr Thomas Bowen.
		*132.	L.V.	Cardigan Bay,.....	Messrs Rees and Comben.

	No. on Map.			
South Wales.	*133.	L.H.	South Bishop,.....	Messrs Nicholas and Pell.
	*134.	L.H.	Smalls,.....	Mr George Baker.
	135.	L.H.	Great Castle Head,....	Mr W. L. Davis.
	136.	L.H.	Milford (St Ann's),....	Mr James F. Spicer.
	*137.	L.H.	Caldy,.....	Mr Wm. Ebben.
	*138.	L.V.	Helwick,.....	Messrs Webber and Howells.
Bristol Channel.	*139.	L.V.	Scarweather,.....	Messrs Havells and Wyness.
	*140.	L.H.	Nash (E.),.....	Mr Henry Nicholas.
	*141.	L.V.	Breaksea,.....	Messrs Walters and Johnson.
	142.	L.H.	Flatholm,.....	Mr W. Dale.
	143.	L.V.	English and Welsh Grounds.	
	144.	L.H.	Usk.	
	145.	L.H.	Avon.	
	*146.	L.H.	Burnham,.....	Mr William Lewis.
South-West of England.	*147.	L.H.	Bull Point,.....	Mr George Knott.
	*148.	L.H.	Bideford Bar,.....	Mr Thomas Gilpin.
	149.	L.H.	Lundy Island.	
	150.	L.H.	Hartland Point.	
	151.	L.H.	Trevoise Head.	
	*152.	L.H.	Godrevy,.....	Mr Richard Trahair.
	*153.	L.H.	Longships,.....	Mr Jno. W. Watson.
	*154.	L.V.	Sevenstones,.....	Mr Daniel Norton.
	*155.	L.H.	Wolf Rock,.....	Mr J. J. Chavner.
	156.	L.H.	Scilly.	
	*157.	L.H.	Bishop's Rock,.....	Mr Jno. W. Troth.
	158.	L.H.	Lizard Point.	
	159.	L.H.	Falmouth Harbour.	
	*160.	L.H.	Eddystone,.....	Messrs Ainger and Gaudion.
	*161.	L.H.	Plymouth Breakwater,	Mr Arthur Ebgar.
	*162.	L.H.	Start Point,.....	Mr William Jones.
	*163.	L.H.	Portland Bill,.....	Messrs Frost and Counter.
*164.	L.V.	Shambles,.....	Mr William Clark.	
165.	L.H.	Anvil Point.		
166.	L.H.	Hurst Castle,.....	Mr G. G. Appleton.	
167.	L.H.	The Needles.		



Our best thanks are due to the observers above named for their invaluable co-operation, and for the faithful manner in which they have filled in their schedules. To Messrs Ainger and Gaudion (Eddystone), Bowen (Bardsey), Clark (Shambles), Knott (Bull Point), Nicholas (Nash), Norton (Sevenstones), Rees and Smith (Skerries), Steer (Menai), Thomas and Hughes (Carnarvon Bay), Walters and Johnson (Breaksea), and Webber and Howells (Helwick), additional and special thanks are due for sending the wings of the following species killed or captured at their respective stations:—

Date.	Species.	Station.	Remarks.
1887.			
Mar. 11,	Lapwing, . . . .	Sevenstones L. V., . . . .	1 caught.
„ 18,	Pied Wagtail, . . . .	Nash L. H., . . . .	8 killed.
April 24,	Willow Warbler, . . . .	Eddystone L. H., . . . .	.....
„ 30,	{ Whinchat, ♂ } { Redstart, . . } . . . .	Shambles L. V., . . . .	40 caught.
May 3,	{ Reed Warbler, Whitethroat, Wood Warbler, Willow Warbler, Redstart, . . }	. . Eddystone L. H., . . . .	many killed.
„ „	Sedge Warbler, . . . .	Nash L. H., . . . .	5 killed.
„ „	Willow Warbler, . . . .	„ . . . .	4 „
„ „	Whitethroat, . . . .	„ . . . .	42 „
„ „	Blackcap, . . . .	„ . . . .	1 „
„ 4,	Pied Flycatcher, . . . .	„ . . . .	1 „
„ 6,	Redstart, . . . .	Carnarvon Bay L. V., . . . .	1 „
„ 15,	Whitethroat, . . . .	„ „ . . . .	1 „
„ „	Sedge Warbler, . . . .	Helwick L. V., . . . .	3 „
„ „	Ring Plover, . . . .	„ . . . .	1 „
Aug. 16,	Willow Warbler, . . . .	Skerries L. H., . . . .	1 „
„ „	Sedge Warbler, . . . .	„ . . . .	1 „
„ 17,	Willow Warbler, . . . .	„ . . . .	1 „
„ 18,	„ „ . . . .	„ . . . .	1 „
„ „	Sedge Warbler, . . . .	„ . . . .	1 „
„ „	Willow Warbler, . . . .	Nash L. H., . . . .	10 „
„ „	Sedge Warbler, . . . .	„ . . . .	35 „
„ „	Spotted Flycatcher, . . . .	„ . . . .	14 „
„ 25,	Willow Warbler, . . . .	Skerries L. H., . . . .	12 „
„ 29,	Sedge Warbler, . . . .	„ . . . .	several.
Sept. 17,	Grey Wagtail, . . . .	Eddystone L. H., . . . .	.....
„ 18,	Turnstone, . . . .	Skerries L. H., . . . .	1.
„ 20,	Sedge Warbler, . . . .	Nash L. H., . . . .	27.
„ 21,	Whitethroat, . . . .	Eddystone L. H., . . . .	.....
„ „	Tree Pipit, . . . .	„ . . . .	.....
„ „	Dunlin, . . . .	„ . . . .	.....
„ „	Wheatear, . . . .	„ . . . .	.....

Date.	Species.	Station.	Remarks.
1887.			
Sept. 21,	Sedge Warbler, . . .	Eddystone L.H., . . .	.....
„ 23,	Blackcap, . . .	Menai L.H., . . .	1.
„ 30,	Pied Wagtail, . . .	Eddystone L.H., . . .	.....
„ „	Meadow Pipit, . . .	„ . . .	.....
„ „	Yellow Wagtail, . . .	„ . . .	.....
Oct. 3,	Albino Starling, . . .	Bardsey L.H., . . .	shot.
„ 9,	Common Thrush, . . .	Breaksea L.V., . . .	1.
„ 17,	Chaffinch, . . .	Skerries L.H., . . .	.....
„ 30,	Wren, . . .	„ . . .	.....
Nov. 3,	Rock Pipit, . . .	„ . . .	shot.
„ 7,	Chaffinch, . . .	Nash L.H., . . .	1.
„ „	Redwing, . . .	„ . . .	6.
„ „	Common Thrush, . . .	„ . . .	11.
„ „	Short-eared Owl, . . .	Skerries L.H., . . .	shot.
„ 8,	Golden Eye, . . .	„ . . .	♀.
„ „	Jack Snipe, . . .	„ . . .	shot.
„ 9,	Grey Plover, . . .	Nash L.H., . . .	4 killed.
„ 11,	Chaffinch, . . .	Bull Point L.H., . . .	1 „ ♀.
„ 13,	Water Rail, . . .	Nash L.H., . . .	.....
„ 14,	Blackcap, . . .	„ . . .	15 killed.
„ „	Stonechat, . . .	„ . . .	4 „
„ „	{ Woodcock, } . . .	{ . . .	{ 3 „
„ „	{ Snipe, } . . .	{ . . .	{ 6 „
„ „	{ Skylark, } . . .	{ . . .	{ 104 „
„ 19,	Knot, . . .	„ . . .	.....
„ 21,	Coot, . . .	Breaksea L.V., . . .	1 killed.

In addition to the observations furnished by the various Lightkeepers, the following notes have been incorporated:—

Observations made in Cumberland, communicated by Messrs Macpherson and Duckworth.

Notes from the North-West Coast of Merioneth, by Mr G. H. Caton-Haigh.

To the above-named ornithologists, and to Mr W. Cecil Scott, of Leeds, the writer begs to tender his best thanks for their valued co-operation.

#### SUMMARY OF OBSERVATIONS.

*January.*—On several occasions during the month a few Thrushes, Fieldfares, Blackbirds, Larks, Starlings, and Curlews were observed at the lanterns, but all the movements recorded appear to be purely local in their nature.

*February.*—The same species are occasionally and locally noted as in January; but on the 17th, Wheatears were noted

at the Chickens Rock lantern, and a Ring Ouzel was shot at St Tudwal's—these harbingers of spring making their appearance with the south-westerly winds and mild weather which then spread over our islands.

*March.*—The month commenced with a spell of anticyclonic weather—cold, gloomy, and foggy over England during the daytime, but with sharp frosts at night. The effect of this weather led to a renewal of the local movements of the Turdidæ, Chaffinches, Larks, Starlings, Lapwings, etc. Shallow local disturbances followed, and on the 15th, which was a most miserable and unsettled day all over England, there was a very great rush of birds at the Nash, flying before very heavy snow, from 8.30 A.M. to 3 P.M. Mr Nicholas says, “two or three hundred birds could be seen at a time,” and that he recognised Skylarks, Starlings, Snipe, Woodcocks, Lapwings, Golden Plovers, Mallard, Teal, and many other birds flying in the snow. Anticyclones followed, prevailing until the 20th, producing a good deal of fog and severe frosts. The frost caused some of the lanterns to be visited by the usual gipsy species, but, among others, a Woodcock, eight Pied Wagtails, and a Kingfisher were killed. Unsettled weather followed. On the 29th an anticyclone advanced completely over the British Islands, and with it fair, dry, quiet weather prevailed until the end of the month. On the 29th, amongst other species, scores of Wheatears fluttered around the Eddystone light; on the 30th, Razorbills and Puffins put in an appearance at their summer haunts on the Calf of Man; and Puffins arrived at St Tudwal's on the 31st.

*April.*—The month commenced with cold winds and showers of snow and sleet. After the 5th the disturbing conditions passed away, and on the 7th fine bright sunny weather was established, though the temperature remained low. On the 10th, Ring Ouzels and Wheatears were recorded, and the first Swallows appeared at four stations between Devon and the Isle of Man on the 11th. On the 17th the fine weather broke, and changeable, unsettled conditions prevailed over the country generally. During this period Ring Ouzels, Wheatears, and Willow and other Warblers were observed at the Eddystone, and a few Swallows at various stations. Towards the end of the month fine weather again prevailed, and on the 30th a Cuckoo was

heard at St Bees, and numbers of Whinchats and Redstarts were captured at the lantern of the Shambles light-vessel.

*May.*—On the 3d the depression which prevailed during the earliest days of the month passed away, and variable breezes, with fair weather in some places and local showers in others, prevailed until the 5th. On the 3d and 4th, extraordinary rushes of summer immigrants occurred at the Eddystone and Nash stations (and at Helwick on the 4th), when Wheatears, Whitethroats, Sedge Warblers, Willow Wrens, Wood Warblers, Blackcaps, Reed Warblers, Redstarts, Pied Flycatchers, and Swallows were killed—some in considerable numbers—at the lanterns. On the 16th and 18th, in varying weather, there were arrivals of summer and transient birds at the S.W. stations. Conditions afterwards were most unsettled until the 24th, the weather being wretchedly cold and rough. The only bird recorded during this period was the Swift—a species associated in some districts in England with such unsettled meteorological conditions. On the 25th a high-pressure system appeared, with northerly and easterly winds, though dull and cold for the time of the year. From this date to the end of the month there were continuous arrivals of summer birds, and many Sandpipers and Plovers passed the Eddystone on their way to the far north.

*June.*—The returns for this month are quite unimportant.

*August.*—The first movement from the breeding habitats was recorded for the 4th, when Curlews were noted at Menai, the Scarweather L.V., and at Bideford Bar. On the 11th, Whimbrel arrived, and, along with Willow Warblers, Sedge Warblers, and Whitethroats, struck against the Nash lantern. The weather entirely broke up on the 15th, and thunderstorms began to prevail. The 19th and 20th were very cold, and at night slight ground frosts occurred in several localities. During this spell of rough weather a number of summer birds were recorded as emigrating—Swifts, Swallows, Martins, Warblers, Flycatchers, and Land Rails. The weather then mended, and became fine and hot, and little migration appears to be recorded for the latter days of the month.

*September.*—The month commenced with a period of very rough weather, south-westerly and westerly gales blowing with great force in the Channel and on our South-West Coasts. On the passing away of this severe disturbance, a series of smaller

ones followed, and continued with little interruption until the middle of the month. The returns up to the 17th show an almost complete dearth of bird-movements during this interval. On the 17th an anticyclonic spell commenced, which lasted, without intermission, till the 25th, and concomitant with it were general emigratory movements, full particulars of which are furnished in the Diary section of this report. A cyclonic distribution succeeded, during which the weather was on the whole fair and dry—foggy at times, and cold for the time of the year—and but little migration was noted.

*October* commenced with an anticyclonic stage—cold, dry, and fine, with westerly breezes in the north, easterly ones in the south. This lasted until the 9th, and during its prevalence not unimportant movements occurred from the 5th to the 9th, when Larks, Thrushes, Ring Ouzels, Finches, Warblers of several species, Swallows, and Goldcrests appeared at the lanterns. After the 9th a period of very unsettled cyclonic weather ensued; the wind became northerly and increased in force, and showers of snow, sleet, or cold rain continued to fall over the United Kingdom; and cold and unsettled weather continued with us until nearly the middle of the month, with no migration. On the 15th the depression had disappeared, being replaced by an anticyclonic stage lasting until the 22d. During this favourable interval there were important and general immigrations and transient movements of winter birds. There followed a decided alteration in the stability of the meteorological conditions over the British Islands and their neighbourhood. Various systems appeared of a transitory nature, and the changes of wind and weather were consequently both sudden and frequent. The movements of birds recorded in our Diary for this changeable period which witnessed the close of the month were neither many nor important.

*November*.—The month commenced with a spell of exceedingly changeable, unsettled weather, which lasted uninterruptedly until about the 8th. During this period the only movement worthy of mention was the not unimportant one recorded for the S.W. stations on the 7th. On the afternoon of the 11th an anticyclonic period commenced, and prevailed, with little break, until the 17th. There were important general movements on the 11th (on which date a great rarity—*Saxicola isabellina*

—was obtained at Allonby in Cumberland), 13th, 14th, with interesting observations on the 17th and 18th, at S.W. stations.

There were no other movements of importance up to the close of the year.

#### DIARY OF THE MIGRATORY MOVEMENTS AS OBSERVED AT THE VARIOUS STATIONS.

The sequence of the stations is from north to south. The wind and weather, as observed at the stations, are given in parenthesis: for the weather, the symbols of the Beaufort scale have been adopted;<sup>1</sup> while the force of the wind ranges from 0 to 12.

The diction of the observers has been closely adhered to. The identification of the species marked thus \* has been verified by the wings sent.

### JANUARY.

JANUARY 1st.—*Bahama Bank* L.V., large number of Starlings and Thrushes at 9.40 A.M., flying W. (4, S.W.; B. C. M.)

JANUARY 5th.—*Bahama Bank* L.V., number of Starlings, Thrushes, and Larks flying round lantern from 10 P.M. till 4 A.M. Four Starlings, six Thrushes, and two Larks killed. (S., 5; snow.)

JANUARY 8th.—*Chickens Rock* L.H., Several Thrushes, Fieldfares, and Blackbirds flying round lantern throughout the night. (N.N.E. fresh breeze; haze.)

JANUARY 10th.—*Bahama Bank* L.V., about forty Thrushes and Larks flying round lantern all night; two Thrushes and one Lark killed. (S.W., 1; B. C. M.)

JANUARY 15th.—*Chickens Rock* L.H., number of Curlews flying round lantern all night. (S.E. strong breeze; haze.)

JANUARY 27th.—*Chickens Rock* L.H., number of small birds flying round lantern all night. (S.S.W. gale.)

<sup>1</sup> *Beaufort scale*:—B. blue sky; c. detached clouds; D. drizzling rain; F. fog; G. dark, gloomy; H. hail; L. lightning; M. misty; O. overcast; P. passing showers; Q. squally; R. rain; S. snow; T. thunder; U. ugly, threatening; V. visibility, unusual transparency; W. dew.

## FEBRUARY.

FEBRUARY 7th.—*Cumberland*, a Grey Phalarope at Silloth.

FEBRUARY 10th.—*St Tudwal's* L.H., two Thrushes struck lantern at 6 A.M. *Sevenstones* L.V., a Bullfinch flew on board to rest at 1.30 P.M. (E., 4; clear.)

FEBRUARY 16th.—*Carnarvon Bay* L.V., large flocks of Thrushes and Larks all night; left for land at "fogbreak." One Thrush and one Lark killed. (S.S.W., 4; G. M.) *Merionethshire*, a great many Snipe appeared, but only remained two or three days.

FEBRUARY 17th.—*Chickens Rock* L.H., flocks of Thrushes, Blackbirds, Starlings, and Wheatears flying round lantern all night. (S.S.W. fresh breeze; haze.) *St Tudwal's* L.H., a "Ringed Ouzel" shot at 9 A.M.

FEBRUARY 18th.—*Skerries Rock* L.H., two Thrushes killed, midnight. (N. by E., 6; clear.)

FEBRUARY 20th.—*Langness* L.H., one Fieldfare struck lantern, and found dead at 4 A.M. (Light S.W.; showers.)

FEBRUARY 23d.—*Langness* L.H., one Song Thrush struck and killed at 2 A.M. (Strong S.W.; haze.)

FEBRUARY 24th.—*Merionethshire*, a Little Auk diving within gun-shot of the windows at 8 A.M. Weather very rough, with violent gales from S.W.

FEBRUARY 25th.—*Merionethshire*, flock of about a dozen Pied Wagtails. (Strong N.W.) No more till March 20th, when several appeared.

FEBRUARY 28th.—*St Tudwal's* L.H., a Blackbird and a Lark killed at 5 A.M.

## MARCH.

MARCH 1st.—*Selker* L.V., one male Blackbird struck the lantern and was killed at 12.30 A.M. (S., 3; B. C.) Larks, Starlings, and Blackbirds from midnight to 4.20 A.M. One male Starling struck lantern and was killed. (Calm; o. M.) *Skerries Rock* L.H., one Blackbird killed during night. (S.W., 2; clear.) *Carnarvon Bay* L.V., several Blackbirds at 2 A.M.; three caught; others left at daybreak. (S.S.W., 4; C. V.) *Eddystone* L.H., a Thrush caught at 11 P.M. A flock of Lapwings flying around the light at midnight. (N.E., 1; C. M.)

MARCH 2d.—*Selker* L.V., large flocks of Chaffinches at 9.30 A.M. going S.W. Fifteen Chaffinches going S.W. at 11.30 A.M. (S., 1; o. M.) *Langness* L.H., one Starling on lantern at 3 A.M. One female Blackbird on lantern at 4.30 A.M., and four Blackbirds at 9 A.M. (Light S.W.; haze.) *Smalls* L.H., Starlings and Blackbirds striking window all night; many killed. (W., 1; o. v.)

MARCH 4th.—*Langness* L.H., a Lark on lantern at 3 A.M. (Light S.W.; haze.) *Caldy* L.H., twenty Puffins at 6 A.M. (S.W., 5; c.) *Eddystone* L.H., Blackbirds and Thrushes from 3 to 5 A.M.; two caught. (E., 4; B. C. M.)

MARCH 5th.—*Smalls* L.H., Lapwings at 3 P.M. (E.S.E., 3; o. M.) Five remained on the rock until the following day. *Eddystone* L.H., Blackbirds, Missel Thrushes, Starlings, and Larks from 3 to 4 A.M.; many striking. (E., 4; c. M.)

MARCH 7th.—*Carnarvon Bay* L.V., two Lapwings at 8 A.M. "One fell alongside, and caught; it seemed fagged out." (E.S.E., 2; M.)

MARCH 9th.—*Eddystone* L.H., numbers of small birds flying around the lantern all night; none striking. (Light and variable; c. M.)

MARCH 10th.—*Selker* L.V., Larks and Thrushes all night; all disappeared at daybreak. (Calm; o. M.) *St Tudwal's* L.H., two Blackbirds on the island at 10 A.M. *Eddystone* L.H., small birds all night—Blackbirds and Thrushes resting on the roof. (E.; o.)

MARCH 12th.—*Bishop Rock* L.H., "Puffins arrived. They are seven days later than last year."

MARCH 15th.—*Merionethshire*, Woodcock, last seen. *Nash* (E.) L.H., "A very great rush of birds flying before a very heavy snow, from 8.30 A.M. to 3 P.M. (Wind E., 3; o. s.) Two or three hundred birds could be seen at a time as follows: Snipes, Lapwings, Golden Plovers, Starlings, Skylarks, Woodcocks (a few), Wild Duck, Teal, and many other birds which could not be named, flying in the snow."

MARCH 17th.—*Skerries Rock* L.H., Thrushes and Starlings throughout the night. (Calm, misty.)

MARCH 18th.—*Selker* L.V., one Woodcock, one Thrush, and two Larks found dead on deck, killed during night. (S.E., 3; snow, misty.) *Nash* (E.) L.H., eight \*Pied Wagtails killed between 1 and 3 A.M. (N.E., 2; B. C. M.)



MARCH 19th.—*Langness* L.H., twenty-one Geese at 3 P.M. flying N.E. (Light E.; haze.) *Bahama Bank* L.V., two Thrushes and two Starlings killed at 11.15 P.M. (S.E., 4; hazy.) *St Tudwal's* L.H., six Wild Geese flying N.E. at 5.40 P.M. *Helwick* L.V., a Kingfisher struck the lantern at 3 A.M. (S.S.W., 2; haze.)

MARCH 20th.—*Bahama Bank* L.V., two Thrushes at 10.45 P.M.; one killed. One Flycatcher and one Lark flying round lantern at 10.45 P.M. (S. by E., 3; o. g.) *Selker* L.V., several Starlings and Larks flying about the light from 12 P.M. to 4 A.M. One Starling caught alive. *Carnarvon Bay* L.V., several birds all night. One Starling and one Blackbird killed. (S., 3; B. M.) *Eddystone* L.H., Larks and Lapwings at 3 A.M. (E.N.E., 4.)

MARCH 21st.—*Cumberland*, Sand Martins at Cockermonth.

MARCH 23d.—*Selker* L.V., a great many Blackbirds and Thrushes flying about the light from 12 P.M. to 4 A.M. (5, S.S.E.; rain, misty.) Three Thrushes found dead on deck, and one Blackbird caught alive. (5, N. by W.; c. m.) *Merionethshire*, Golden-eye, last seen.

MARCH 24th.—*Merionethshire*, one Whimbrel.

MARCH 26th.—*Langness* L.H., several Thrushes striking between 9 and 12 P.M. One Redwing found dead. (Light W.; rain.) *Selker* L.V., a great many Thrushes flying about the light from 9 to 12 P.M. (5, S.W.; R., misty.)

MARCH 27th.—*Langness* L.H., one ♀ Blackbird on lantern at 4 A.M. (Light W.; rain.) A few Wagtails at 3 P.M. *St Bees* L.H., first appearance of Pied Wagtail. *Selker* L.V., Thrushes and Larks flying round the light from 12 to 4 A.M. (5, W. by N.; R., misty.)

MARCH 28th.—*Langness* L.H., "a Cuckoo at 10 A.M." (Fresh W.; clear.)

MARCH 29th.—*Eddystone* L.H., Lapwings, Blackbirds, Missel Thrushes, Starlings, Fieldfares, and scores of Wheatears at the lantern between 12.30 to 5 A.M. One Blackbird and six Starlings killed. (Light and variable; B. C. M.)

MARCH 30th.—*Langness* L.H., two Golden-crested Wrens, one ♂ Chaffinch, and a large number of Pipits at 4 P.M. (Light N.; clear.) *Chickens Rock* L.H., Razorbills and Puffins in great numbers all day. (Variable, frosty.) These birds breed on the Calf of Man, and Mr Black says they have come about a fort-

night earlier than they did last year. *Merionethshire*, Meadow Pipit, small flocks. (Light E.)

MARCH 31st.—*St Tudwal's* L.H., about fifty Puffins arrived at the island. *Helwick* L.V., forty Lapwings going N.E. at 10 A.M. (W., 3; clear.)

#### APRIL.

APRIL 1st.—*Merionethshire*, Wheatear, first seen. "This is the latest date I have noted for the arrival of this bird." (Strong N. wind blowing.) Red-breasted Merganser, last seen, a flock of six adult males; very scarce all through the winter.

APRIL 9th.—*Merionethshire*, "Chiffchaff. This unusually late date of arrival was probably owing to the prevalence of strong winds from N. and N.W., from the end of March till April 8th, when it changed to E. for some days. Abundant on April 10th."

APRIL 10th.—*Langness* L.H., one Ring Ouzel and about a dozen Wheatears at 3 P.M. (Light E.; clear.) *St Bees* L.H., first appearance of Wheatear.

APRIL 11th.—*Langness* L.H., one Swallow at 10 A.M. (Light E.; haze.) *Holyhead Breakwater* L.H., several Swallows about the lighthouse at 10 A.M. (O. B. C.) *Cardigan Bay* L.V., the first Swallow seen at noon going E.N.E. *Bull Point* L.H., three Swallows at 2 P.M. going E.

APRIL 12th.—*Burnham* L.H., Sheldrakes congregating at their breeding-haunts between the two lighthouses.

APRIL 14th.—*Merionethshire*, one Whimbrel heard.

APRIL 16th.—*Chickens Rock* L.H., nine Swallows at 11 A.M. (E. strong breeze; haze.) *Merionethshire*, Willow Wren, in some numbers. (Light E.)

APRIL 17th.—*Merionethshire*, one Blackcap seen. Common Sandpiper arrived. (Light S.W.)

APRIL 18th.—*Nash (E.)* L.H., four Swallows going E. at 10 A.M. (E., 3; B. M.) *Merionethshire*, Whinchat, one seen. (S.W. light.)

APRIL 19th.—*Nash (E.)* L.H., two Swallows passed to N.E. at 8 A.M. (N.W., 3; C. M.)

APRIL 20th.—*Langness* L.H., a few Solan Geese at 7 A.M. (Light W.; clear.)

APRIL 21st.—*St Bees* L.H., one Fieldfare killed at 11.30 P.M. (S.W., 4; fog and rain.) *Selker* L.V., one Thrush found on deck,

killed during night. (5, S.W.; C. M. P.) *Eddystone* L.H., several Ring Ouzels, Thrushes, Larks, and numbers of Wheatears flying around the lantern from 9.30 P.M. to 2.30 A.M. (22d). Two Ring Ouzels (♂ and ♀), and one Thrush caught; several lost over. (S.W., 5; C. R. M.)

APRIL 23d.—*Cumberland*, Cuckoo at Carlisle. *Carnarvon Bay* L.V., several unknown small birds around the lantern at 11 P.M. *Merionethshire*, Swallow, first seen. (Strong S.W.) Martin, one in the village of Penrhyndendraeth. (Strong S.W.)

APRIL 24th.—*Merionethshire*, many Whimbrel. (Strong N.W., with hail showers.) *Eddystone* L.H., numbers of small birds—Warblers, Larks, Ring Ouzels—flying past the lantern from 10 P.M. to 3 A.M.; a Ring Ouzel and a \*Willow Warbler caught. (N.E. by E., 1; O. R. V.)

APRIL 25th.—*Cumberland*, Golden-eye and Widgeon, last seen at Monkhill. *Merionethshire*, Tree Pipit arrived. (Strong N.W., cold.)

APRIL 26th.—*Cumberland*, Corncrake telegraphed at Cocker-mouth. *Merionethshire*, Cuckoo heard in the evening. It is said to have been heard on the 24th. (Strong N.W.; thunder and hail, and heavy fall of snow on the mountain.)

APRIL 27th.—*Holyhead Breakwater* L.H., four Swallows flying E. at 4 P.M. (W.S.W., 6; B. C. P.)

APRIL 29th.—*Cumberland*, Swallow arrived at Cocker-mouth. *St Tudwal's* L.H., hundreds of Puffins arrived. *Merionethshire*, Whimbrel, heard a flock going over at night.

APRIL 30th.—*Langness* L.H., several Willow Warblers at 10 A.M. (Light N.E.; clear.) *St Bees* L.H., heard Cuckoo, first time this season. *Portland (Low)* L.H., a good few Wrens and Linnets at 2 A.M.; several killed. (E., 4; mist, rain.) *Shambles* L.V., small birds in quantity (name unknown) at lantern during the night; fifty caught. Wings of a \*Whinchat and a \*Redstart sent for identification. (E. by S., 3; cloudy.)

## MAY.

MAY 1st.—*Caldy* L.H., a Cuckoo on the island at 9 A.M. *Helwick* L.V., two Swallows flying N. about 11 A.M. *Bideford Bar* L.H., a Cuckoo, several "Mountain Larks," and one Swift at 9 A.M. (E., 4.) *Portland (Low)* L.H., two Swallows at 7.50 P.M.

MAY 3d.—*Skerries Rock* L.H., one Flycatcher killed at midnight. (E.N.E., 2; misty.) *Merionethshire*, one Swift. (Light E., dull and cloudy.) *Nash (E.)* L.H., a rush of immigrants from 9 P.M. until midnight—\*Wheatears (twenty to thirty struck, seven killed), \*Whitethroats (*S. cinerea*) (100 to 200 struck, forty-two killed), \*Sedge Warblers (thirty to forty struck, five killed), \*Willow Warblers (ten to fifteen struck, four killed), \*Blackcap (four struck, one killed). (E., 2; M. D. R.) *Bull Point* L.H., several Swallows. Three Swifts at 6 P.M. *Eddystone* L.H., hundreds of birds this morning from midnight to 3 A.M.: Swallows, Wheatears, \*Reed Warblers, \*Whitethroats, \*Wood Warblers, \*Willow Warblers, and \*Redstarts, many of which were killed and fell over; and Mr Gaudion tells me he “could scarcely walk on the gallery for them.” (W.N.W., 3; C. G. V.) At 9 P.M. the movement was renewed, and lasted until 3.30 A.M. (4th *q.v.*)

MAY 4th.—*Langness* L.H., several Wheatears at 3 P.M. *St Bees* L.H., heard Corncrake, first time this season. *Merionethshire*, Common Sandpiper, considerable numbers. Whimbrel, several large flocks. *Selker* L.V., two Swallows going S.W. at 3.30 P.M. (2, S.S.E.; B. C.) *Helwick* L.V., a great number of small birds around the lantern, also Curlews. Two Warblers and three Whitethroats killed. (N.E., 3; O. M. R.) *Nash (E.)* L.H. (continuation of last night's rush). A \*Pied Flycatcher, ♂, killed at 2.30 A.M.; two \*Wheatears killed at 3.15 A.M. (E.S.E., 4; C. M. D.) *Bull Point* L.H., two “Wrens” found killed against the lantern. *Eddystone* L.H. (continuation of last night's movement). Large numbers of small birds from midnight to 3.30 A.M., apparently the same species as yesterday. A Nightjar killed at 2.30 A.M. (W., 2; O. R. M.)

MAY 5th.—*Merionethshire*, Corncrake, first heard. (Light E.)

MAY 6th.—*Langness* L.H., a few Swallows and eight Lapwings at 2 P.M. (Fresh E.; haze.) *Skerries Rock* L.H., “Sea Swallows” (*Sterna*), flying round the island at daylight. (E.S.E., 5; misty.) Mr Rees says: “Sea Swallows always come to this island true to the morning of the 6th May; then they leave again for one week, and then return for the laying season.” *Carnarvon Bay* L.V., a male \*Redstart at noon. (Calm, fog.) *Nash (E.)* L.H., two Blackcaps passed lantern at 10.30 P.M. (N.N.E., 3; O. M. D.)

MAY 9th.—*Nash (E.)* L.H., a Sedge Warbler killed at 1 A.M.

(N.N.W., 2; fog.) *Eddystone* L.H., a small flock of Golden Plovers passing at 2.30 A.M. A few Warblers flying round the lantern. (W. light; c. v.)

MAY 10th.—*Nash* (E.) L.H., four Sedge Warblers killed at 2.30 A.M. A few Wheatears struck at 3.30 A.M. (N.W., 3; fog.) A Willow Warbler at lantern at 9 P.M.; Wheatears at 10 P.M., one killed. (N.W., 3; B. C.)

MAY 11th.—*Langness* L.H., one Swift at 2 P.M. (Light W.; clear.)

MAY 13th.—*Cumberland*, nine Dotterel seen on a Solway marsh.

MAY 14th.—*Langness* L.H., one Cuckoo at 11 A.M. (Light N.; clear.) *Merionethshire*, Nightjar arrived. (Light E.) *Nash* (E.) L.H., one Cuckoo passed W. at 8 A.M., and two at 11 A.M. (N.E., 2; c. m.) A large flock of Swallows passed to W. at noon.

MAY 15th.—*Langness* L.H., a few Willow Warblers at 1 P.M. (Light N.; clear.) Several Whimbrel for the last three days. *St Bees* L.H., Some Whitethroats flying round lantern at 1.30 A.M. (N.N.E., 1; c. m.) *River Dee* L.V., Swallows passing the whole day, in ones and twos, all flying N.E. (N.N.E., 1; o. v.) *Skerries Rock* L.H., several Whimbrel flying round the island all day. (N.E., 4; misty.) *Carnarvon Bay* L.V., a \*Whitethroat killed at lantern. *South Bishop* L.H., several Wheatears; a few striking between 12 P.M. to 3 A.M. (E.N.E., 3; c. v.) *Helwick* L.V., a good many birds flying round the lantern during the night; three \*Sedge Warblers and one \*Ringed Plover killed. (N.E., 1; o. m.)

MAY 16th.—*Carnarvon Bay* L.V., the first "Sea Swallows" (*Sterna*) appeared at 6 A.M. *Eddystone* L.H., large numbers of small birds—Wheatears and Warblers—striking lightly from 10 P.M. (? 15th) to 3 A.M. (N.N.E., 3; c. g. v.)

MAY 18th.—*Merionethshire*, Spotted Flycatcher arrived. (Strong N.W.; cold.) *South Bishop* L.H., several Swallows all day. *Eddystone* L.H., hundreds of Wheatears, Warblers, and Swallows from 12 P.M. to 3 A.M.; many striking the lantern and lost over; three Warblers killed. (W. by S., 3; c. d. m.)

MAY 19th.—*Cardigan Bay* L.V., two Swifts going E. at 11 A.M.

MAY 20th.—*Cumberland*, twelve adult Richardson's Skuas flying past Sillioth from W. to E. (After N.W. gale.)

MAY 21st.—*Nash* (E.) L.H., a large flock of Swifts passed W.S.W. at 5 P.M.

MAY 23d.—*Langness* L.H., large number of Swifts at 11 A.M. (Light N.; clear.) *Chickens Rock* L.H., two Terns at 7 A.M. (N.W. strong breeze; haze.) *Holyhead Breakwater* L.H., one Kingfisher at 8 A.M. (N.N.W., 3; gloomy.) *Cardigan Bay* L.V., four Swifts going N. at 2 P.M.

MAY 24th.—*Langness* L.H., one Willow Warbler and two Whitethroats at 1 P.M. (Light N.W.; cloudy.) *South Bishop* L.H., a few Swifts from 11 A.M. to 2 P.M.

MAY 25th.—*Cardigan* L.V., six Martins going E.S.E. at 3 P.M. *Eddystone* L.H., flocks of Sandpipers, Wheatears, Warblers, and Swallows from 9.30 to 12 P.M. One Sandpiper caught; many Warblers killed and lost over. (E. by N., 4; O. R. M.)

MAY 26th.—*South Bishop* L.H., large number of "Flycatchers" between 12 P.M. and 3 A.M.; many struck lantern, thirty killed. (E., 4; B. C. M.)

MAY 27th.—*South Stack* L.H., several "Siskins" from 10 P.M. till midnight. *Cardigan Bay* L.V., two Swifts at 7 P.M. *Eddystone* L.H., hundreds of birds here from 11 P.M. until 3 A.M. (28th?). Flocks passing, their call like Plovers; only Warblers close to lantern, and none caught.

MAY 28th.—*South Bishop* L.H., several "Flycatchers" from 12 P.M. to 3 A.M.; several struck, ten killed. (E.N.E., 2; C. M.) A Cuckoo and a small bird at 7 P.M., left rock and flew east. *Godrevy* L.H., a Cuckoo struck the lantern. *Eddystone* L.H.,—See under yesterday.

MAY 29th.—*Cardigan Bay* L.V., two Swifts at 7.30 P.M. *Bishop's Rock* L.H., a Turtle Dove and nine Swifts at 7 P.M. flying from W. to E. (E.S.E., 5; C. M. R.)

MAY 30th.—*Nash (E.)* L.H., a Cuckoo captured at lantern at 10 P.M. *Eddystone* L.H., flocks of Sandpipers passing lantern—a few striking—from 12.15 till 3 A.M. Also hundreds of Wheatears, Warblers, Swallows, and Swifts from 12.15 to 3 A.M. Great numbers of Warblers killed against lantern and cowl, and lost over. (E. by N., 4; C. D. M.)

## JUNE.

JUNE 1st.—*Cumberland*, two Black Terns seen near Carlisle. *Eddystone* L.H., several Swallows, Swifts, and Warblers from 12 P.M. until 3 A.M.; none caught. (E.S.E., 2; fog.)

JUNE 2d.—*Merionethshire*, one Redstart. (Light E. wind.) Four Whimbrel to N., very high up. *Nash (E.) L.H.*, a Swift killed at 10 P.M. (O. M. D.)

JUNE 5th.—*Merionethshire*, the Red-backed Shrike not seen till this date.

JUNE 6th.—*River Dee L.V.*, five Swans flying N. at 10.30 A.M.; they passed very close. (S.W., 1; B. C. V.) *Eddystone L.H.*, several Swallows and Swifts from 5 P.M. to 6 A.M. (W.S.W., 3; C. R. M.)

JUNE —.—*Merionethshire*, about the middle of June several large flocks of Mallard appeared on the river. One flock must have contained nearly a hundred ducks.

JUNE 17th.—*River Dee L.V.*, thousands of Sandpipers flying W. at 10 A.M. (S.E., 2; B. C. V.) *Nash (E.) L.H.*, Cuckoos passing S.W. at 10 A.M. *Bishop's Rock L.H.*, a Turtle Dove at 8 P.M. passing from W. to E. (S.E., 5; B. M.)

JUNE 21st.—*Selker L.V.*, flocks of Black Ducks at 9.15 P.M. and 7.30 P.M. (3, N.E.; B. C. V.) *Helwick L.V.*, twelve or sixteen "Mackerel Cocks" (? *Puffinus anglorum*, from description sent) at 6 P.M. going W.

JUNE 24th.—*Selker L.V.*, ten Black Ducks going N.W. at 8.30 P.M. (1, N.N.E.; B. M.) *Eddystone L.H.*, many Swifts "tapping against the glass from 10 P.M. till daylight." (E., 4; C. M. and C. V.)

## AUGUST.

AUGUST 2d.—*Merionethshire*, several small flocks of Redshank.

AUGUST 3d.—*Merionethshire*, flocks of hundreds of Black-headed Gull.

AUGUST 4th.—*Menai L.H.*, flocks of Curlews about shore all day. (Calm, clear.) *Merionethshire*, Cuckoo, one adult. Whimbrel appeared again; saw one, and heard several. *Scarweather L.V.*, two Curlews at 8 P.M. *Bideford Bar L.H.*, about 200 Curlew on the sands at 8.30 P.M.; also one Heron and thirty Ring Plovers.

AUGUST 7th.—*Merionethshire*, many flocks of Dunlin appeared. (Light N.W.)

AUGUST 8th.—*Langness L.H.*, one Raven and one ♂ Wheatear at 4.30 A.M. (Fresh S.W.; clear.) *Cardigan Bay L.V.*, two

Storm Petrels at 3 P.M. around the vessel. *Bideford Bar* L.H., two hundred Guillemots at 11.30 A.M. going to sea, W.

AUGUST 10th.—*Langness* L.H., several Wheatears at 10 A.M. (Fresh N.W.; clear.) *Skerries Rock* L.H., one Cormorant at noon. (N.E., 6; B. C. V.) One Wheatear on island at 7 P.M. (N.N.E., 6.) *Merionethshire*, most of the Swifts left about this date.

AUGUST 11th.—*Langness* L.H., four Oystercatchers and a few Whimbrels at 5 A.M. (Light N.; clear.) *Skerries Rock* L.H., one Lapwing on island at 6 P.M. (N. by E., 5; B. C. V.) *Nash (E.)* L.H., four Willow Warblers struck (two killed), eight to ten Sedge Warblers struck (three killed), and three Whimbrel struck between 11 and 12 P.M. (N.E., 2; C. M.) Four White-throats killed at 1 A.M. (August 12th).

AUGUST 12th.—*St Tudwal's* L.H., the Puffins left the island. *Cardigan Bay* L.V., six Swifts and one Rook going S.E. at 8 P.M.

AUGUST 13th.—*Skerries Rock* L.H., two Yellow Buntings on island at 4 P.M. (N.E., 6; C. M. R.) *Nash (E.)* L.H., a Land Rail killed at 2.40 A.M. (E.N.E., 2; C. G. P.) Two Sedge Warblers killed at 9.20 P.M. (W.N.W., 3; C. G. M.)

AUGUST 14th.—*Langness* L.H., large numbers of Wheatears all day. (Light S.W.; clear.) *Nash (E.)* L.H., a Swift killed at 10 P.M. (S.E., 1; B. C. M.)

AUGUST 15th.—*Langness* L.H., large number of Swallows from 7 to 9 A.M. (Light S.; clear.) *Nash (E.)* L.H., two Swifts killed between 9 and 11 P.M. (E., 4; C. O.) *Bideford Bar* L.H., large flocks of Swallows from N. at noon. At 10 P.M. a Swallow struck lantern and was caught. (S.E., 2; C. M.) *Eddystone* L.H., "several Wheatears, Reed Warblers, and Willow Wrens from 9 P.M. (? 14th) till 3 A.M. The first autumn birds." A few caught. (N., 2; C. P. V.) *Portland (Low)* L.H., a Wheatear killed at 12 P.M. (E., 4; O. M.)

AUGUST 16th.—*Chickens Rock* L.H., six Wheatears, two Larks, and three Meadow Pipits on lantern from 12 till 3 A.M. (E. strong airs; haze.) *St Bees* L.H., four Willow Warblers struck glass at midnight, but were not killed. (S.E., 1; O. M.) *Skerries Rock* L.H., three Whimbrel flying S. at 6 P.M. (Calm, clear.) \*Willow Wren and \*Sedge Warbler killed against glass. *Holyhead Breakwater* L.H., two Yellow Buntings at noon. (N.E., 3;



B. C.) *South Stack* L.H., several small birds flying round the lantern, 11 P.M. to midnight; one caught. *Portland (Low)* L.H., a Martin and a Common Wren killed in the early morning. (E.N.E., 5; C. M. D.)

AUGUST 17th.—*Langness* L.H., twelve Oystercatchers at 6 A.M. (Light E.; clear.) *Selker* L.V., great many Meadow Pipits round light from midnight to 4 A.M.; two killed. (1 S.S.W.; O. M. P.) *Morecambe Bay* L.V., two Yellow Buntings flying about the vessel at noon. (E., 3; C. M.) *Skerries Rock* L.H., several "Flycatchers" striking glass at 12.5 A.M.; two killed. (E., 4; misty.) One Cormorant at 3 P.M. (N.N.E., 5; C. M.) *Nash (E.)* L.H., a Land Rail killed at 10 P.M. (N., 4; C. G. P.) *Sevenstones* L.V., two Storm Petrels at sunset. (N.N.W., 5; B. O.) *Portland (Low)* L.H., two "Wrens" struck at 3 A.M. (N., 5; C. M.)

AUGUST 18th.—*Skerries Rock* L.H., two Wheatears flying on island at 6 P.M. One \*Willow Wren and one \*Sedge Warbler killed against lantern. (N., 5; misty.) *Nash (E.)* L.H., ten \*Willow Warblers, thirty-five \*Sedge Warblers, and fourteen \*Spotted Flycatchers killed between 9 and 11 P.M. (N.E., 4; C. G. P.) Four Swifts killed at 1 A.M. (19th). *Eddystone* L.H. (see 19th).

AUGUST 19th.—*St Bees* L.H., several flocks of Starlings about. "We are constantly visited by Wagtails after insects, which are attracted by the light during the night, and which stay about during the day. We have also a Robin occasionally." *Morecambe Bay* L.V., several "Mackerel Birds" about the station during the day. (N.; B. C.) *River Dee* L.V., flocks of Oystercatchers passing the whole day. (N.E., 2; B. C. V.) *Cardigan Bay* L.V., a large flock of Swallows going S.W. at 9 A.M. *Caldy* L.H., ten Swallows at 3 P.M. *Nash (E.)* L.H., four Swifts killed at 1 A.M. *Eddystone* L.H., numbers of Wheatears, Willow Wrens, Reed Warblers, and Whitethroats from 9 P.M. (18th) to 3 A.M.; some striking and several caught. (N. by E., 4; C. P. V.)

AUGUST 20th.—*Carnarvon Bay* L.V., several flocks of Common Tern. *Cardigan Bay* L.V., several flocks of Swallows going S.W. at 9 A.M. *Nash (E.)* L.H., a Land Rail killed at 10 P.M. (N.E., 3; C. M.)

AUGUST 23d.—*Eddystone* L.H., a few small birds—Wheatears and Warblers—flying around the lantern from 9.30 to 12 P.M. (E. by S., 3; B. C. V.)

AUGUST 25th.—*Skerries Rock* L.H., twelve \*Willow Wrens killed at the lantern.

AUGUST 26th.—*Cumberland*, five Greenshank shot at Silloth.

AUGUST 29th.—*Skerries Rock* L.H., \*Sedge Warbler killed. *Sevenstones* L.V., several Storm Petrels from 5 to 6.30 P.M. (S.S.W., 4; B. O.)

AUGUST 30th.—*Cumberland*, two Widgeon seen, and one shot at Silloth. *Langness* L.H., several Swallows at 9 A.M. flying S.W. Solan Geese, a few passing westward every day for the last week or so. A few Wheatears every day. Large flock of Curlews and a few Whimbrel at 6 P.M. (Light to fresh S.E. to S.; showery.) *Carnarvon Bay* L.V., six "Grey Plovers" at noon going N.W. *Nash (E.)* L.H., twelve or fifteen Swallows passed S.S.W. at 7 A.M.

## SEPTEMBER.

SEPTEMBER 2d.—*Langness* L.H., seven Sheldrakes at 4 P.M. (Strong S.; rain.) Mr Clyne says these birds are seldom seen here.

SEPTEMBER 4th.—*Langness* L.H., a few Wheatears at 10 A.M. (Light S.; clear.) *Nash (E.)* L.H., Wheatears flying round the lantern all night; two killed. (W., 6; C. G. M.)

SEPTEMBER 7th.—*Cumberland*, Grey Plover arrived at Silloth; many from 7th to 15th.

SEPTEMBER 9th.—*Cumberland*, Knot, fifteen at Allonby; Turnstone, some; Whimbrel, some; Bar-tailed Godwit (young). *Eddystone* L.H., several Wheatears from 9.30 till 12 P.M. (W.S.W., 5; O. D. M.)

SEPTEMBER 10th.—*Cumberland*, one Great Snipe shot at Carlisle.

SEPTEMBER 11th.—*Cumberland*, twenty Curlew Sandpiper seen; eleven shot, all young birds. *Eddystone* L.H., a few Wheatears from 8 to 9 P.M. (W. by S., 4; C. P. M.)

SEPTEMBER 12th.—*Skerries Rock* L.H., one Lapwing on island at 11.30 A.M. (N.W., 5; B. C. V.) *Carnarvon Bay* L.V., several Pewitt flying around the lantern at 11 P.M. (N.N.W., 5; C. V.) *Nash (E.)* L.H., a Land Rail killed at 10 P.M. (N., 3; C. M. R.)

SEPTEMBER 13th.—*Langness* L.H., large number of Meadow Pipits at 6 A.M. *Eddystone* L.H., a Willow Warbler killed at 2 A.M. (N.W. by N., 4; C. P. V.) *Portland (Low)* L.H., a "Wren" struck at 10.30 P.M. (N., 4; B. C. V.)

SEPTEMBER 14th.—*Portland (Low)* L.H., two "Flycatchers" at lantern at 1 A.M. (N.N.W., 5; C. V.)

SEPTEMBER 15th.—*Cumberland*, Jack Snipe, first seen at Allonby. *South Bishop* L.H., several flocks of Swallows flying W. from 6 A.M. till noon. *Nash (E.)* L.H., four Whitethroats killed at 9 P.M. (Calm; B. C.) *Bull Point* L.H., many Swallows passing W. all day. (W.; P.)

SEPTEMBER 17th.—*Nash (E.)* L.H., a very large flock of Starlings flying round the lantern at 11 P.M. A Nightjar killed at 11.30 P.M. (E.N.E., 3; O. M. P.) *Longships* L.H., "several birds" from 2 A.M. to daylight. (W.N.W. to N.N.E., 3; F. R.) *Eddystone* L.H., Wheatears, several struck from 3 to 5 A.M. (S.W. by S., 4; O. R. M.) A \*Grey Wagtail caught at 7.30 P.M. (N., 2; C. G. M.) Several Wheatears, Whitethroats, Warblers, also a Blackbird and a Thrush, passing the lantern from 7.30 to 9.30 P.M.; two Whitethroats caught. (N.E. by E., 4; C. G. M.)

SEPTEMBER 18th.—*Cumberland*, Grey Geese (spe. inc.) passing along Solway at Allonby and Flimby. *Skerries Rock* L.H., one \*Turnstone struck lantern and killed at 4 A.M. One Wagtail on island at 9 A.M. One Thrush and four Wheatears on island at 9.30 A.M. (E., 4; B. M.) *Nash (E.)* L.H., flocks of Starlings and Common Linnets, and a few Skylarks, passed S.W. during the morning.

SEPTEMBER 19th.—*Sevenstones* L.V., one Swallow at 6 P.M. flew on board to rest. (E.N.E., 4; clear.) *Eddystone* L.H., a few small birds—Whitethroats and Warblers—from 3 to 5 A.M. (E.N.E., 3; B. C. V.)

SEPTEMBER 20th.—*Langness* L.H., one female Blackbird at 11 P.M. on lantern. One Robin at 3 P.M. (Light E.; clear.) *Skerries Rock* L.H., four Carrion Crows on island at 3.30 P.M. (Calm; B. V.) *Nash (E.)* L.H., forty-two \*Sedge Warblers killed at lantern between 11 and 12 P.M. (E., 3; B. C. M.) *Longships* L.H., a party of Guillemots passing S. *Eddystone* L.H., a few Wheatears and Whitethroats at 2.30 A.M.; two caught. (N. by E., 1; B. C. V.) Whitethroats and Warblers from 7.20 to 9.30 P.M. (N. by E., 1; B. C. M.) *Portland (Low)* L.H., "Flycatchers and Wrens" striking at 12.40 A.M. (E., 5; B. C. V.)

SEPTEMBER 21st.—*Langness* L.H., two Thrushes, one Lark, and one Spotted Flycatcher on lantern at 2 A.M.; other birds striking. (Light S.; haze.) *Selker* L.V., one Lark found dead on deck.

(4, S. by W.; o., misty.) One "Willy the Wisp" rested on deck at 11.30 A.M., then flew to E. One Thrush flying round ship from 8 to 12 P.M. (Misty.) *Skerries Rock* L.H., several Flycatchers and Crested Wrens on island, and one Blackcap, at 9 A.M. (E.S.E., 4; c. m.) One Skylark struck lantern, but not killed, at 11 P.M. *South Bishop* L.H., a flock of Swallows flying E. at 9 A.M. A Sparrow Hawk flying round the rock at 10 A.M. *Nash (E.)* L.H., two Willow Warblers killed at 10.3 A.M. A large flock of Titlarks passed S.E. at 11 A.M. A small flock of Linnets passed S.E. at 4 P.M. (E.S.E., 3.) *Longships* L.H., a few Puffins passing S. *Eddystone* L.H., Wheatears and Whitethroats from 2 to 5 A.M. (E.N.E., 4; B. V.) Numbers of birds at the lantern from 9 to 12 P.M.—\*Whitethroats, \*Tree Pipits, \*Dunlins, \*Sedge Warblers, and \*Wheatears killed; many lost over. (E.N.E., 3; o. v.)

SEPTEMBER 22d.—*Langness* L.H., several Swallows and Pied Wagtails at 8 A.M. (Light S.E.; haze.) *Selker* L.V., a few Thrushes flying round the ship at 3.30 A.M. A Blackbird and a Lark flying round ship at 4 A.M. (Misty.) Found a "Flycatcher" dead on deck at 6.30 A.M. One Wren flying round ship at 7.40 A.M. (3, S.S.W.; misty.) *Skerries Rock* L.H., several Skylarks, Flycatchers, and Thrushes flying round island all day; also two Robins and four Swallows. (S. by E., 1; c. m.) *South Bishop* L.H., a large flock of Swallows at 11 A.M.

SEPTEMBER 23d.—*Menai* L.H., a quantity of Linnets, four Wagtails, one Robin, and one \*Blackcap at 6.30 A.M. Flocks of Sparrows and Starlings at 8 A.M. One Blackcap killed. (E. by S., 3; very misty.) *Skerries Rock* L.H., two Flycatchers struck, but not killed, at 2.30 A.M. One Skylark settled on gallery at 2.45 A.M. One Chaffinch on island at 10 A.M. (E., 4; misty.) *Merionethshire*, Woodcock, one shot. *Nash (E.)* L.H., four Blackbirds at lantern at 10 P.M.; one killed. *Breaksea* L.V., several Chaffinches, Wagtails, Linnets, and other small birds from 6 to 8 A.M. (E.N.E., 4; B. M.) *Eddystone* L.H., Ring Ouzels, Blackbirds, Thrushes, Wheatears, Warblers, and Whitethroats in large numbers from 10 to 12 P.M.; many killed—six Ring Ouzels, thirteen Wheatears, two Whitethroats, two "Warblers," and one Thrush—and many lost over. (E.N.E., 4; c. m.)

SEPTEMBER 24th.—*Cumberland*, Barnacle Goose arrived at Rockcliffe. *Selker* L.V., one Thrush rested on rail for a short

time at 5.30 A.M., and then flew off. (3, S.S.W.; misty.) *Carnarvon Bay* L.V., a Water Hen caught at 4 A.M. (S.E., 2; B. M.) *South Bishop* L.H., companies of Swallows flying E. all day. *Breaksea* L.V., Chaffinches and other small birds passing E. all day. (E., 3.) *Eddystone* L.H., Ring Ouzels, Blackbirds, Thrushes, Wheatears, Warblers, and Whitethroats killed and caught against the lantern, from 12 P.M. to 4.30 A.M.; many lost over. (E.N.E., 3; B. C. M.)

SEPTEMBER 25th.—*Selker* L.V., a few Thrushes flying about lantern at 2.30 A.M. (Calm; misty.) One Blackbird going S. at 5.30 A.M. (3, N.W.; B. M.) *Skerries Rock* L.H., one Skylark killed at 3 A.M. *Carnarvon Bay* L.V., about 200 Swallows flying S.S.E., high, at 9 A.M. (W.S.W., 3; M.) *St Tudwal's* L.H., two Wild Geese flying W. at 6.30 A.M. *Eddystone* L.H., a Ring Ouzel at the lantern at 11 P.M. (W.N.W., 2; B. C. M.) *Portland (Low)* L.H., Martins, Linnets, and Wrens at 12.30 P.M. going W.

SEPTEMBER 26th.—*Eddystone* L.H., a few small birds from 1 to 3.30 A.M. A Whitethroat caught. (W.N.W., 3; C. M.)

SEPTEMBER 27th.—*Cumberland*, a young Black-tailed Godwit shot near Silloth.

SEPTEMBER 28th.—*Cumberland*, one Red-necked Phalarope at Rockliffe. *Chickens Rock* L.H., Larks, Thrushes, Wheatears, and two Goldcrests flying in rays of lantern all night; a few killed. (Light N.E.; clear and showers.)

SEPTEMBER 30th.—*Nash (E.)* L.H., forty to fifty Swallows passed S. at 7 A.M. Thirty to forty Skylarks passed S.W. at 8 A.M. (E., 3.) *Breaksea* L.V., a Wagtail at 10.30 A.M. *Eddystone* L.H., large flocks of Grey Plovers, Lapwings, Ring Ouzels, Skylarks, \*Meadow Pipits, \*Pied and \*Yellow Wagtails, and Warblers from 3 to 5 A.M. (E., 2; C. P. M.)

## OCTOBER.

OCTOBER 4th.—*South Bishop* L.H., two Crows alighted on the rock at 11 A.M. *Nash (E.)* L.H., a Goldcrest killed at 1 A.M. (E., 1.) *Wolf Rock* L.V., a pair of Yellow Buntings at 10 A.M. (N.E., 3.)

OCTOBER 5th.—*Holyhead Breakwater* L.H., scores of Larks flying W. at 9 A.M. (N., 4; overcast.) *Eddystone* L.H., several small birds passing from 3 to 6 A.M. (N.E. by N., 4; C. G. V.) Numbers of birds—Ring Ouzels, Wheatears, Whitethroats, and Warblers—passing from 5 to 12 P.M. (N.E., 3; C. G. M.)

OCTOBER 6th.—*Skerries Rock* L.H., several Blackbirds on island at 9 A.M. Small flocks of Thrushes and Skylarks on island from 7 to 9 A.M. About 100 Starlings on island at 8.30 A.M. (N., 4; c. v.) *Cardigan Bay* L.V., three Martins roosted for the night on the vessel. *Nash (E.)* L.H., a Goldcrest killed at 3 A.M. (E., 2; o. M.) *Breaksea* L.V., Lapwings and a few "Flycatchers" from 9 P.M. to midnight. (N.E., 1; o. M.) *Wolf Rock* L.V., six Skylarks struck at 8 P.M. Two Goldcrests at the lantern at 11 P.M. *Bishop's Rock* L.H., several hundred of Titlarks, unmixed with other species, at the lantern all night and until daylight (7th); six killed. (N. to E.; cloudy, misty.) *Eddystone* L.H., several birds—Ring Ouzels, Thrushes, Starlings—passing from 3 to 7 A.M. One Wren and one Whitethroat caught. (N.E., 3; c. G. M.)

OCTOBER 7th.—*Langness* L.H., one Swallow at 11.30 A.M. Two or three Choughs passing W. at 12 noon. (Light N.; clear.) *Skerries Rock* L.H., large flocks of Larks at 9 A.M. flying N.W. Four Crows at 7 A.M. flying N.W. Four Lapwings on island at 5.45 P.M. (W.N.W., 4; c. G. v.) *Holyhead Breakwater* L.H., great number of Larks all the morning going W. (N.W., 4; overcast.) *Longships* L.H., a few Starlings and Larks at 10 P.M. (N.E., 1; o. v.) *Eddystone* L.H., small birds around the lantern all night—among others, Titlarks and Wheatears. Towards morning numbers of Larks and Thrushes passing. (Light and variable; o. M.)

OCTOBER 8th.—*Skerries Rock* L.H., several flocks of Linnets at 8 A.M. flying N.W. One Chaffinch on island at 2.30 P.M. (N.E., 5; c. G. v.) *South Stack* L.H., Starlings, Larks, Finches, and Linnets in continuous flocks to N.W. from 7 A.M. till noon. *Eddystone* L.H., small birds crossing E. in small flocks all day—chiefly Linnets. (Light and variable; gloomy and misty.) Birds crossing all night—Lapwings, Thrushes, Ouzels, Storm Petrels; also several small birds, a Robin amongst them, busy eating moths, of which there were scores against the glazing. A Lark and a Ring Ouzel caught. (E.N.E., light; c. M. and c. v.)

OCTOBER 9th.—*Selker* L.V., eleven Larks at 8.45 P.M. (3, E.N.E.; c. v.) *Carnarvon Bay* L.V., many flocks of Skylarks going E. all day. *Nash (E.)* L.H., one Song Thrush killed at 9 P.M. (N.E., 2; c. M.) Twelve to sixteen "Common Tern"

struck the lantern at 9 P.M.; one killed. Five to nine Skylarks struck at 10 P.M.; three killed. (N.E., 2; C. M.) *Breaksea* L.V., a \*Thrush killed at 10.40 P.M. A few Flycatchers flying round the lantern from 8 to 12 P.M. *Eddystone* L.H., as yesterday (*q.v.*). *Portland (Low)* L.H., five or six Blackcaps during the morning. (E., 3; C. M.)

OCTOBER 10th.—*Cumberland*, Long-tailed Duck, a female shot at Silloth; about twenty killed subsequently, nearly all females. Redwing and Fieldfare arrived at Carlisle. *Longships* L.H., hundreds of Guillemots and Puffins passing S. all day. (N., 7; squalls, hail, rain.)

OCTOBER 11th.—*Wolf Rock* L.V., six Sea Swallows (*Sterna*) at 4 P.M. (N.N.E., 5.)

OCTOBER 14th.—*Chickens Rock* L.H., Larks, Blackbirds, Thrushes, Wheatears, and other small birds all night; great many killed. (N.E., strong breeze; showers.) *Nash (E.)* L.H., eleven Thrushes killed at 1 P.M. (N., 5; C. M.)

OCTOBER 15th.—*Skerries Rock* L.H., flock of Linnets at 7.10 A.M. going N.W. Flock of Larks at 7.30 A.M. going N.W. (N., 3; clear.) *Holyhead Breakwater* L.H., scores of Black Crows going E. at 7.30 A.M. Hundreds of Larks from 10 A.M., and through the greater part of the day, all flying E. (N.N.E., 5; B. C.) *Cardigan Bay* L.V., large flocks of Skylarks at 7 A.M. Large flocks of Grey Linnets at 8 A.M. *Breaksea* L.V., small birds passing in forenoon. *Longships* L.H., scores of Puffins passing S. all day. (N.E., 4.)

OCTOBER 16th.—*Chickens Rock* L.H., great number of Larks, Blackbirds, Thrushes, Wheatears, and other small birds flying in rays of lantern from 3 A.M. till daylight. (W. fresh breeze; clear.) *River Dee* L.V., large flocks of Oyster-catchers passing the whole day. (N.W., 3; B. C. V.) *Skerries Rock* L.H., Golden-crested Wren against lantern-glass at 4.15 A.M. Large number of Starlings from midnight to 6 A.M.; about two dozen killed against glass. Large flock of Ducks going E. at 10.30 A.M. Large flock of Linnets; several Larks and Blackbirds flying on island at 10.30 A.M. (N.N.W., 3; clear.) *Holyhead Breakwater* L.H., three Starlings striking glass at 3.30 A.M.; none killed. (N.W., 2; overcast.) Starlings flying round lantern at 6 A.M. (N.W., 3; cloudy.) *South Stack* L.H., a great number of Starlings and a few Larks from 4 to 5 A.M. around the lantern; twenty-five killed.

*Cardigan Bay* L.V., a flock of Linnets and Skylarks going S.E. at 8 A.M. *South Bishop* L.H., a Wren at 10 A.M., a Goldcrest at 11 A.M., and one Swallow at noon. *Breaksea* L.V., many Larks and a few Finches passing in forenoon. *Longships* L.H., a good many Larks, Starlings, Goldcrests, and Chaffinches all night; two "Wrens" and a Lark killed. (E.N.E., 2; B. C.) *Wolf Rock* L.V., three Greenfinches passing S.E. at 3 P.M. *Eddystone* L.H., birds crossing towards morning—Starlings and small birds. Several Finches on the rock all day. (N.E., 3; B. V.) Large numbers of birds passing from 7 P.M. to 3 A.M. (17th)—Missel Thrushes, Redwings, Starlings, Larks, Finches, and one Goldcrest. Forty-four birds killed., viz., twenty-five Starlings, four Redwings, eleven Larks, and one Missel Thrush. (N.E. by N., 2; C. V.)

OCTOBER 17th.—*Langness* L.H., one male Blackbird struck lantern and killed at 7 P.M. (Light W.; clear.) *Bahama Bank* L.V., number of Larks flying W. at 3 P.M. (N.W. by W., 4; B. C.) *River Dee* L.V., large flocks of Oyster-catchers passing all day, flying N.E. (N.W., 2; B. C. V.) *Skerries Rock* L.H., one \*Chaffinch killed against lantern-glass at 1.30 A.M. One Chaffinch killed at 2.15 A.M. One Lark struck glass, but not killed, at 8 P.M. One Thrush and one Golden-crested Wren killed against glass at 10.30 P.M. (W.N.W., 4; clear.) *Holyhead Breakwater* L.H., three Starlings at 9 P.M. (N., 2; o.) Flock of Larks and Linnets going E. at 9 A.M. *Cardigan Bay* L.V., great numbers of birds passing and repassing; flocks of Skylarks and Linnets from 7 A.M. till noon. *Eddystone* L.H., for movement from 12 P.M. to 3 A.M., see under 16th. One Redstart [? Black] on the rock all day.

OCTOBER 18th.—*Morecambe Bay* L.V., one small bird was seen; it was so tired it was unable to reach the ship, and fell in the water and was killed by Kittiwakes. (W.N.W., 4; B. C. V.) *Skerries Rock* L.H., large flocks of Starlings, Linnets, and Larks from 6.30 to 9 A.M., all going N.W. (N.W., 4; clear.) *Holyhead Breakwater* L.H., hundreds of Larks and Linnets seen from daylight up to noon, going S., from this date up to October 27th. One Linnet killed striking at 9 P.M. (W.N.W., 3; o.) *Godrevy* L.H., four Swallows at 1 P.M.

OCTOBER 19th.—*Morecambe Bay* L.V., five "Mackerel Birds" at 11 A.M. (W., 4; C. V.) *River Dee* L.V., large flocks of Oyster-



catchers from 9 A.M. till noon, flying S.W. (W.N.W., 3; B. C. V.) *Skerries Rock* L.H., Thrushes and Starlings flying round lantern at 4.50 A.M. (W., 4; clear.) *Holyhead Breakwater* L.H., Larks at 10 A.M. going S.E. (W.S.W., 4; cloudy.) *Nash (E.)* L.H., Goldcrests killed at 3.10 A.M. (W.N.W., 3; C. M.) *Eddystone* L.H., several Larks from 9 to 11 P.M.; three killed. (Light and variable; B. C. V.) *Portland (Low)* L.H., a Goldcrest caught at lantern at 9.45 P.M. (W., 3; B. C. M.)

OCTOBER 20th.—*Langness* L.H., one Redwing caught on lantern at 3 A.M. (Light S.W.; clear.) One Swallow flying S.W. at 11 A.M. *Chickens Rock* L.H., three Black Swallows flying S.S.E. at 1 P.M. (N.W. fresh breeze; haze.) *River Dee* L.V., very large flock of birds, species not known, flying S.W. at 9.30 A.M. (N.N.W., 3; B. C. V.) *Skerries Rock* L.H., Thrushes, Larks, and Chaffinches round light from 8 P.M. to 4 A.M.; seven killed against glass. (N., 4; clear.) *Holyhead Breakwater* L.H., great many Larks all day going E. *South Stack* L.H., a Thrush and a Lark caught at lantern at 2.30 A.M. *Carnarvon Bay* L.V., hundreds of Thrushes and Blackbirds going E. at intervals; six killed. (N., 4; B. C. V.) *Nash (E.)* L.H., two \*Reed Buntings killed at 1.30 A.M. (N.N.W., 2; C. M.) *Eddystone* L.H., Lapwings, Missel Thrushes, Ring Ouzels, Fieldfares, Thrushes, Redwings, Starlings, Larks, Storm Petrels, and Sanderlings (? Dunlins), from 8 P.M. to 5 A.M. (21st). Two Ring Ouzels, three Thrushes, two Redwings, seven Starlings, four Larks, and one Sanderling killed; many striking. The Lapwings and Fieldfares did not approach the glazing. One Missel Thrush did, but was not caught. A lesser Redpole caught. (N.E. to E.N.E., 3; C. V.)

OCTOBER 21st.—*Chickens Rock* L.H., Thrushes, Blackbirds, Larks, Starlings, and Chaffinches, numbers killed, from 3 A.M. till morning. (E. strong breeze; haze.) *South Stack* L.H., a few Larks from 9 P.M. till midnight; several killed. *Carnarvon Bay* L.V., very large flocks of Thrushes and Blackbirds going E. at intervals; two killed. (N.E., 3; B. C. V.) *Cardigan Bay* L.V., flocks of Starlings, Larks, and other small birds going S.E. and N. through the day. *South Bishop* L.H., hundreds of birds of all sorts flying around the lantern from 11 P.M. to 2.30 A.M. (22d); 272 killed, viz., "Larks," 146; Starlings, 64; Blackbirds, 38 (caught three old males); Thrushes, 24. Several birds seen on the rock at daylight with broken wings. (S.E., 4; O. M.)

*Scarweather* L.V., one Chaffinch on deck at 3 P.M. *Nash (E.)* L.H., a \*Common Wren killed at 2.40 A.M. Three Skylarks killed at 3 A.M. (N.E., 2; B. C. M.) *Bull Point* L.H., a Thrush found dead at daylight. *Godrevy* L.H., Starlings, Larks, Blackbirds, and Thrushes; a good many killed and caught. (Light, misty.) *Longships* L.H., scores of Larks, Starlings, and Goldcrests all night; a good many striking and lost over; caught twenty-six Starlings and eleven Larks. (E., 2; C. M.) *Eddystone* L.H., an important movement from 8 P.M. (20th) to 5 A.M. this morning. For details see under yesterday. From 10 P.M. to 4 A.M. (22d), "Blackbirds, Missel Thrushes, Fieldfares, Thrushes, Redwings, Starlings, Larks, Finches, Goldcrests, Robins, and several small Warblers, crossing by hundreds." From 100 to 150 struck the lantern; eighty-two killed, viz., one Blackbird (♀ or juv.), one Fieldfare, three Thrushes, seven Redwings, thirty-six Starlings, thirty Larks, one Grey Wagtail, and three Goldcrests. (E. to S.E., 3; blue sky occasionally, but misty, C. V.)

OCTOBER 22d.—*Langness* L.H., large flock of Larks and a few Tree Sparrows at 8 A.M. (Light S.W.; clear.) *Chickens Rock*, L.H., large flock of Thrushes, Blackbirds, Larks, Starlings, and Chaffinches, flying in rays of lantern from 3.30 A.M. till morning. (W.S.W. strong breeze; haze.) *Bahama Bank* L.V., ten Crows flying W. at 9.40 A.M. (W.; C.) *Selker* L.V., Larks and Thrushes flying round lantern at 4.3 A.M. Eight Larks at 8.30 A.M. Flock of Larks at 10.30 A.M. One Greenfinch came on deck at 11.20. (4, W.; C. G.) *River Dee* L.V., a few Thrushes, Larks, and Chaffinches about the light during the night; one Thrush killed; birds left at daybreak. (S.E., 2; O. M.) *Skerries Rock* L.H., large flocks of Linnets, Chaffinches, Starlings, and Larks going N.W. all day. (S.S.W., 5; cloudy.) *South Stack* L.H., twenty-four Starlings, seven Blackbirds, and six Larks, between 3 A.M. and daylight. *South Bishop* L.H. (see entry under yesterday). *Caldy* L.H., a Lark at the lantern at 3 A.M. *Nash (E.)* L.H., Starlings. *Godrevy* L.H., Starlings, Larks, Blackbirds, and Thrushes; a good many killed and caught. (Light, misty.) *Eddystone* L.H., an important movement from 10 P.M. (21st) until 4 A.M. this morning. For details, see yesterday. *Shambles* L.V., Chaffinches and "Reed Birds" all day. (S.E., 4; mist, rain.)

OCTOBER 23d.—*Langness* L.H., one male Blackbird and one

Redwing struck lantern and killed between 1 and 4 A.M. Large flock of Green Linnets at 10.30 A.M. (Fresh S.W.; clear.) *Skerries Rock* L.H., several Blackbirds and Starlings killed against glass from 11.30 P.M. to 5.30 A.M. One Heron, one Teal, and one Woodcock settled on island at 9 P.M. (W., 5; cloudy.) *Holyhead Breakwater* L.H., Starlings at 2 A.M. flying round lantern. (W.S.W., 5; overcast.) *Cardigan Bay* L.V., several flocks of Starlings and other small birds throughout the day going S.E. *Helwick* L.V., a good many Greenfinches around the lantern during the night. (N.W. and W., 4; B. C. M.) *Nash (E.)* L.H., about thirty Starlings at 9 P.M.; five killed. (N.N.W., 3; C. G. P.) *Longships* L.H., scores of Puffins passing S. most of the day. (S.S.W. to N.W., 3.) *Eddystone* L.H., Starlings from 7 to 8.30 P.M.; several struck. (W.N.W., 3; B. C. V.)

OCTOBER 25th.—*Skerries Rock* L.H., flocks of Linnets and Chaffinches going N.W. from 9 A.M. to noon. Two Blackbirds, male and female, killed at glass at midnight. (W.S.W., 4; clear.) *Carnarvon Bay* L.V., several Blackbirds and Finches flying S.E., low, during the forenoon. (N.E., 7.) *Nash (E.)* L.H., a Wren killed at 3.30 A.M. (N.E., 4; B. C. M.) A large flock of Lapwings passed W.N.W. at 7 A.M.; large flocks of Linnets passed to W. between 7 and 8 A.M.; two flocks of Fieldfares passed W. at 9 and 9.30 A.M. (E.N.E., 4; C. G.) *Eddystone* L.H., 25th (P.M.) and 26th (A.M.), birds crossing all night; one or two small species coming to lantern. (Wind light and variable; visibility.)

OCTOBER 26th.—*Skerries Rock* L.H., about a dozen Blackbirds and Starlings killed at midnight. (W.S.W., 4; clear.) *South Stack* L.H., a few Starlings and Thrushes from 11 P.M. to 4 A.M. (27th). *Nash (E.)* L.H., two Ravens passed W. at 3.30 P.M. Hundreds of Crows, Rooks, and Jackdaws passing inland at 3.30 P.M. (S.W., 4; C. G. U.) Large flocks of Skylarks passing inland at 4 P.M. *Eddystone* L.H., birds crossing in the early morning and last night (*q.v.*).

OCTOBER 27th.—*South Bishop* L.H., several companies of Linnets flying N.W. all day. *Helwick* L.V., one Woodcock killed at 2.30 A.M. (S.W., 7; C. Q. P.) *Nash (E.)* L.H., a Storm Petrel killed at 4 A.M. (S.W., 3; O. M. R.) A hundred or more Common Gulls passing inland at 10 A.M. (W.S.W., 3; O. M. R.) *Eddystone* L.H., a Brambling caught at 2.30 A.M. (S.S.W., 6; C. V.)

OCTOBER 28th.—*Carnarvon Bay* L.V., several hundreds of Larks and Finches flying low to S.E. in the forenoon. (W., 6; B. C. V.)

OCTOBER 29th.—*Skerries Rock* L.H., large flocks of Starlings and Larks going N.W. all day. (W., 5; clear.) *Holyhead Breakwater* L.H., thousands of Larks going at 10.30 A.M. (W., 5; B. C. M.) *Carnarvon Bay* L.V., several dozens of Skylarks going S.E. during forenoon. (W., 5; B. C. V.)

OCTOBER 30th.—*Bahama Bank* L.V., twenty-six Larks flying W.N.W. at 11.25 A.M. (W.; B. C.) *Morecambe Bay* L.V., several House Sparrows, from noon till 2 P.M., resting about the ship; came from N.N.W. (W. by N., 6.) *Skerries Rock* L.H., large flocks of Starlings and Larks going N.W. all day. (W., 5; clear.) A \*Wren killed at 1 A.M. *Nash (E.)* L.H., two or three hundred Gulls and Crows passing inland all day.<sup>1</sup> (W. to N.N.W., 6; C. Q. P. H.)

OCTOBER 31st.—*Skerries Rock* L.H., Starlings, Crows, and Linnets settled on island during the whole day. (W. by S., 6; B. C. V.) *Nash (E.)* L.H., Gulls, Rooks, Jackdaws, and Starlings passing inland all day. (N.W. to N., 5; B. C. P.)

## NOVEMBER.

NOVEMBER 1st.—*Langness* L.H., a few Thrushes at 11 A.M. (Gale, S.E.; rain.) Also a few Blackbirds at 9 A.M. *Selker* L.V., flock of Skylarks at 9.30 and 11.20 A.M. *Morecambe Bay* L.V., two Starlings rested on the ship at 3 P.M. (S. by W., 8; O. Q.) One Blackbird and one Chaffinch rested on ship at 3.45 P.M. *Skerries Rock* L.H., Starlings, Snipe, and Chaffinch flying about island at noon. (S.W., 10; C. R. M.) *South Stack* L.H., Starlings, Larks, Finches, and Linnets from daylight to noon. *Nash (E.)* L.H., Crows, Gulls, Rooks, and Starlings passing inland all day. (S. to S.W., 8; C. Q. R.)

NOVEMBER 2d.—*Selker* L.V., five Greenfinches at 7.45 A.M. One Chaffinch flying round ship all night. (6, S. by E.; C. Q. P.) *Morecambe Bay* L.V., one Greenfinch caught on deck at 11 A.M. (W.S.W., 4; B. C. V.) *Skerries Rock* L.H., great numbers of Starlings, Larks, Chaffinches, and Blackbirds all day. (S.W., 5; clear.) *Carnarvon Bay* L.V., ten Blackbirds and eight Skylarks

<sup>1</sup> Mr Nicholas says:—"When Gulls, Crows, and Rooks pass inland and alight in the fields all day long, it always foretells rough weather."

at 11 A.M., flying to S.E. *Cardigan Bay* L.V., many small flocks of Starlings and Larks going S.E. and N.W. *South Bishop* L.H., thirty or forty Larks flying round the rock at 7 A.M. *Nash (E.)* L.H., Linnets and Rooks passing N. at 8 A.M. (W.S.W., 7; C. Q. P. R.) Gulls, Crows, Rooks, and Starlings passing inland from 7 A.M. to 3 P.M.

NOVEMBER 5th.—*Bahama Bank* L.V., number of Thrushes and Larks flying round lantern from 9 P.M. till 11 P.M.; one Lark killed. (S.S.E., 6; O. M. K.) *Selker* L.V., Larks, Thrushes, and Starlings at midnight; three Thrushes killed. (4, S.S.E.; O. M.) *Skerries Rock* L.H., Starlings, Chaffinches, and Linnets going N.W. from 8 A.M. to noon. Two Goldfinches flying about island at 9.30 A.M.; “very rare.” (N.W., 5; B. C. V.) *South Bishop* L.H., companies of Larks passing from 8.30 A.M. until noon. *Helwick* L.V., a good many Thrushes during the night; one killed. (W.S.W., 5; Q. M.) *Nash (E.)* L.H., Starlings, Larks, Fieldfares, and Lapwings; a good many passing to N.W. from 7 to 9 A.M. (N.N.W., 5; C. G.) *Burnham* L.H., flocks of Lapwings flying S. all day.

NOVEMBER 6th.—*Skerries Rock* L.H., great quantity of Starlings, Chaffinches, and Sparrows all day going about the island. “We never noticed Sparrows here before.” (E.S.E., 3; B. C. V.) *Holyhead* L.H., seven Crows going E. in the morning. *Carnarvon Bay* L.V., hundreds of Larks and Finches going E. in the forenoon. *South Bishop* L.H., about 200 Larks at 10.30 A.M. flying N.W. A flock of Larks going E. at 4.30 P.M. Seven Greenfinches struck the lantern at 7.15 P.M. *Helwick* L.V., two to three dozen Larks going E. at 9.30 A.M. *Nash (E.)* L.H., a good many birds flying around the lantern, but only one Skylark killed at 9.30 P.M. (E.S.E., 4; O. M. R.) *Eddystone* L.H., a Redwing and a Starling struck at 8 P.M. (E.S.E., 6; B. C.)

NOVEMBER 7th.—*Skerries Rock* L.H., Short-Eared Owl shot on island. Snipe on island at 2.45 P.M. Large flock of Starlings settled on island at 7.30 A.M. (E.S.E., 4, to E.N.E., 7; clear to misty, rain.) *Carnarvon Bay* L.V., Starlings and Finches, “without number,” going S.E. all day. *Cardigan Bay* L.V., sixty or seventy “Black Crows” going W. at 10 A.M. *South Bishop* L.H., several small flocks of Linnets during the morning; ten Crows at 10.30 A.M. going E.; several Blackbirds on the rock; several birds flying round the lantern from 7 to 9.30 P.M.; a

good number struck, and one Blackbird (young), one Thrush, one Redwing, and two Starlings killed. (E.N.E., 4; B. C. M.) *Nash (E.)* L.H., a \*male Chaffinch killed at 7 P.M.; six Starlings killed at 8 P.M.; two Snipe struck at 8 P.M.; six \*Redwings killed at 8.30 P.M.; and eleven \*Common Thrushes killed between 9.20 and 10 P.M. (N.E. to E., 5; C. M. R.) *Breaksea* L.V., two \*Thrushes and a Lark killed at 7.45 P.M. (N.E., 5; O. M. R.) *Eddystone* L.H., Golden Plover, Lapwings, Thrushes, Blackbirds, Redwings, and Larks crossing in large numbers from 6 to 10 P.M.; chiefly Thrushes. Eight Thrushes, five Redwings, and three Larks killed, striking windward side of lantern; chiefly birds of the year. (N. by E., 5; C. P. M.)

NOVEMBER 8th.—*Chickens Rock* L.H., number of Rooks coming over from Ireland, seemed much exhausted, during the day. (E. strong breeze; haze.) *Skerries Rock* L.H., \*Jacksnipe shot on island at 2.30 P.M. A female \*Golden-eye killed against glass at 9.15 P.M. (E., 6 to 7; misty, to C. G. M.) *South Bishop* L.H., Linnets and Starlings all day flying E.; five "Crows" at 9.30 A.M. *Helwick* L.V., two hundred Larks at 8.30 A.M. going S.E. *Nash (E.)* L.H., two Goldcrests, one killed, at 9.40 P.M. (E., 3; B. C. M.) *Bull Point* L.H., two Thrushes found dead at foot of tower at daylight. *Eddystone* L.H., hundreds of birds—Blackbirds, Thrushes, Redwings, Fieldfares, Starlings, and Larks, from 7 P.M. to 3 A.M. (9th). Caught eighteen Thrushes, sixty-seven Redwings, three Fieldfares, three Blackbirds, twenty-three Starlings, and one Lark; many scores killed and lost over. Four Tree Sparrows seen. (E.N.E., 5; O. M. R.) *Portland (Low)* L.H., a Lapwing at lantern at 10 P.M. (E., 4; C. M.)

NOVEMBER 9th.—*Langness* L.H., one female Blackbird killed on lantern. A few Fieldfares and Redwings from 10 P.M. to daybreak; one Fieldfare, one Redwing, and one Thrush found dead. (Light E.; haze.) *Chickens Rock* L.H., large flock of Blackbirds, Thrushes, Fieldfares, Larks, Linnets, and two Goldcrests flying round the lantern all night; a few struck. (E.N.E. strong breeze; haze.) *South Bishop* L.H., Blackbirds, Thrushes, and Larks passing singly all day to E. A few birds flying round the lantern during the night; two Larks and two Thrushes killed. (N.E.; C. V.) *Nash (E.)* L.H., a Woodcock at 7 P.M.; four Snipe from 7 to 7.30 P.M.; a small flock of Lapwings at 8 P.M.; all flying round the lantern. Four \*Grey

Plover killed at 9 P.M.; eleven Starlings killed at 9.30 P.M. (E.N.E., 2; o. m. r.) *Breaksea* L.V., Larks and Starlings at lantern from 6 to 12 P.M. (N.E., 4; o. m. r.) *Longships* L.H., Chaffinches and Goldcrests at lantern at 7 P.M. (E.N.E., 3; cloudy, misty.) *Eddystone* L.H., a few Thrushes, Redwings, Larks, and Starlings from 10 P.M. to 6 A.M. (10th). A Blackbird, one Starling, two Thrushes, one Redwing, killed; a few lost over. (N. by E., 3; c. d. v.) *Portland (Low)* L.H., a Chaffinch caught at 10.20 P.M. (N.E.N., 4; c. m.)

NOVEMBER 10th.—*Langness* L.H., fourteen Lapwings flying S. at 11 A.M. One Robin at 3 P.M. One female Blackbird on lantern at 8 P.M. (Light N.E.; haze.) *Chickens Rock* L.H., very great flock of Thrushes, Fieldfares, Larks, Linnets, Blackbirds, Starlings, Lapwings, Curlews, and a few Goldcrests, from about an hour after lighting time till the light was extinguished. A great number struck the dome of lantern and were killed, falling into the sea. Mr Black says—"The flocks are most dense to-night, and are all mixed together. It is no use trying to give numbers. We captured a few Blackbirds and Fieldfares." (From N.E. to S., strong breezes; slight haze.) *Bahama Bank* L.V., number of Larks, Thrushes, and Blackbirds all night; one Thrush and three Blackbirds killed. (E., 4; o. g.) *Skerries Rock* L.H., four Goldfinches on island at 9 A.M. Flocks of Linnets at 10.20 A.M., all flying S.S.E. A Woodcock and four Sparrows shot on island at 4 P.M. *Holyhead* L.H., four Goldfinches going S.E. at noon. *South Stack* L.H., Fieldfare caught at lantern at 2.30 A.M. Blackbirds, Thrushes, Redwings, Starlings, and Larks from 7 P.M. till midnight; a great many flying around the lantern; a few killed. (E., 3; c. m. p.) *South Bishop* L.H., a few birds striking the lantern from 9 P.M. to 2 A.M. (11th): one Land Rail, three Thrushes, and two Blackbirds killed. *Helwick* L.V., a good many small birds at the lantern; one "Warbler" killed. (E., 2; o. m. d.) *Nash (E.)* L.H., Lapwings at 1.10 A.M.; one killed; two Common Snipe killed at 4.30 A.M. (E.N.E., 2; c. m. p.) *Longships* L.H., a few Starlings, Thrushes, and Goldcrests at the lantern from 8 to 9 P.M. (E.N.E., 3; misty, rain.) *Eddystone* L.H., many birds passing—Thrushes, Snipe, Larks, and Redwings—from 8 P.M. to 4 A.M. (11th); a few killed. (N.N.E., 3; c. g. m.)

NOVEMBER 11th.—*Cumberland*, an Isabelline Wheatear, female,

shot at Aigle Gill, near Allonby, by Mr Richard Mann. One Hooded Crow at Allonby. *Chickens Rock* L.H., a very large number of Thrushes, Fieldfares, Larks, Linnets, Blackbirds, Starlings, Lapwings, Curlews, and a few Goldcrests. Hundreds must have been killed by striking the lantern, as they kept striking all night through. (Hazy, with light winds varying from E. to S. and S.S.W.) *Bahama Bank* L.V., number of Larks, Thrushes, and Blackbirds all night; two Blackbirds killed. (E. by N.; o. G.) *River Dee* L.V., one Snipe found dead on deck at daylight. (E.N.E., 2; o. M.) *Skerries Rock* L.H., Blackbirds, Starlings, and Larks nearly all night; several killed against glass. (S.E., 2; misty.) *South Stack* L.H., Blackbirds, Thrushes, Redwings, Starlings, and Larks, in numbers round lantern, from 7 P.M. till midnight. (E.S.E., 3; c. M.) *Cardigan Bay* L.V., great numbers of Blackbirds and Thrushes around the lantern. (S.E., 3; B. C.) *South Bishop* L.H., a large number of birds at the lantern from 9 P.M. to 3 A.M. (12th): sixty-four killed—Larks, Blackbirds, and Thrushes. (E., 2; B. C. M.) *Helwick* L.V., a great number of Larks, Starlings, Blackbirds, and Thrushes during the night; several killed. (N.E. by E., 2; o. M.) *Nash (E.)* L.H., Redwings passed to W. at 6.30 A.M. Song Thrushes (four killed) at 7.30 P.M.; Blackbirds (two killed) at 9.5 P.M. (E.N.E., 4; c. M.) *Breaksea* L.V., Thrushes and Larks from 9 to 11 P.M.; six killed. (E.N.E., 3; o. M.) *Bull Point* L.H., a hen \*Chaffinch killed at 3 A.M. (E., 3; B. C. M.) *Longships* L.H., Puffins and Guillemots passing S. all day. (E., 3.) *Eddystone* L.H., many birds passing, see under 10th; a Jacksnipe caught at 2 A.M. (N.E. by E., 3; c. M.) *Portland (Low)* L.H., a Wren at lantern at 3.30 A.M. (E.N.E., 4; c. M.)

NOVEMBER 12th.—*Chickens Rock* L.H., a large flock of birds at 11.30 A.M. flying N., thought to be Fieldfares. (S. strong airs; clear.) Mr Black says there were flocks of the same birds, as reported for the 10th and 11th (excepting the Linnets), here again to-night, but not in such numbers as last night; very few struck, though the weather was hazy. Found Redstart [? *Ruticilla titys*] killed on the dome. Number of Moths on lantern. *Skerries Rock* L.H., one Owl and one Fieldfare on island. Fieldfares, Blackbirds, Starlings, Thrushes, Chaffinches, and Larks all night; several killed. (S.S.E. to S., 2; misty and gloomy.) *South Stack* L.H., Blackbirds, Thrushes, and Larks around the



lantern, twenty-four killed, from 12.30 A.M. till 3 A.M. (S.E., 2; o. M.) *South Bishop* L.H., thirty Linnets at 11 A.M. A few birds at lantern between 9 and 11 P.M.; eighteen killed—thirteen Larks, four female Blackbirds, and one Redwing.

NOVEMBER 13th.—*Chickens Rock* L.H., several large flocks of birds seen at 10 A.M. flying S.S.W.; species not made out. Starlings, Larks, Fieldfares, and Thrushes from 7 P.M. till morning, flying in the rays of light. (E.N.E. strong breeze; clear.) *Morecambe Bay* L.V., two Chaffinches at 9 A.M.; two Greenfinches at 1 P.M. Several Starlings about the lantern from 8 to 12 P.M. (S.S.W., 3; o.) *River Dee* L.V., flocks of Sand Larks about the lantern from 6 P.M. to midnight. (E.N.E., 1.) *Skerries Rock* L.H., large flock of Greenfinches at 12.10 P.M. flying S. (S., 1; misty and gloomy.) *Holyhead* L.H., a Goldfinch caught at lantern at 2 A.M. *Carnarvon Bay* L.V., Blackbirds and Starlings going E. all day. *St Tudwal's* L.H., a Blackbird struck the lantern at midnight. *South Bishop* L.H., a few birds at lantern from 9 P.M. to 5 A.M. (14th); twenty-seven killed, mostly "female Blackbirds." (E.N.E., 3; c. v.) *Helwick* L.V., a Woodcock, a Lark, and a Thrush killed between 5 and 6 A.M. (E. by N., 2; q. M.) *Nash (E.)* L.H., three Snipe passed N.W. at 6 A.M. A large flock of Lapwings from 6.30 to 10 P.M.—thirty striking, four killed; a "Hawk" Owl flying round the lantern all night. Fieldfares from 6.30 to 10 P.M.; Goldcrests from 6.30 to 9 P.M., four killed; \*Water Rail at 7.30 P.M., one killed; three Woodcocks killed from 7 to 8 P.M.; two Snipe killed at 9.20 P.M.; continuous flocks of Redwings from 7 to 10 P.M., nine killed; eighty-two Skylarks killed from 9 to 11.30 P.M.; and seven Song Thrushes killed at 11 P.M. (E.N.E., 3; c. M. o.) This movement was continued in the early hours of the 14th. (q. v.) *Breaksea* L.V., many birds at lantern from 8 to 10 P.M.; a Quail, six Larks, one Thrush, and one Redwing killed. (E.N.E., 4; o. M.) *Eddystone* L.H., a Blackbird killed at 5.30 A.M. (E. by S., 4; c. v.) *Portland (Low)* L.H., a Snipe struck at 2 A.M. (S.S.E., 4; c. M.)

NOVEMBER 14th.—*Cumberland*, one immature Velvet Scoter (another shot off Burgh Marsh in December). *Chickens Rock* L.H., six Rooks at 9.30 A.M. coming from S., flying towards Isle of Man. Large flock of birds at noon, species unknown, flying N.N.W. Eight Geese at 3 P.M. flying S. (N.E. strong breeze;

clear.) Mr Black says—"I do not remember seeing birds so plentiful in our vicinity, and continuing to visit us in such large numbers." *Skerries Rock* L.H., a Lapwing struck lantern and was killed at 7.45 P.M. (S.E., 2; clear to M. R.) *Holyhead Breakwater* L.H., thousands of Wild Ducks at 11 A.M. in the bay. (S.E., 1; C. H.) *South Stack* L.H., Blackbirds, Thrushes, Larks, Redwings, Fieldfares, and one Robin at lantern from 8 P.M. till midnight; a few killed. (E., 2; C. G. M.) *Cardigan Bay* L.V., several flocks of Starlings and Larks throughout the day going S.E. One Blackbird and one Thrush struck the lantern. *Nash (E.)* L.H., Stonechats at 12.30 A.M., four killed; \*Blackcap from 12 P.M. (13th) to 1.13 A.M., "fifteen killed;" four Snipe killed between 12 P.M. (13th) and 3 A.M.; twenty-two Skylarks killed between 12 P.M. (13th) and 4 A.M.; Blackbirds from 3 to 4 A.M., three killed; Missel Thrushes at 4 A.M., one killed; a Wood Pigeon struck at 4.20 A.M.; a large flock of Lapwings passed to N.W. at 8 A.M.; Lapwings at the lantern at 6.30 P.M. (E.N.E., 2; B. C. M.) *Eddystone* L.H., Oystercatchers, Plovers, Blackbirds, Thrushes, Redwings, and Starlings, from 6.30 to 9.30 P.M., when the stars came out and the birds disappeared. Caught three Blackbirds, one Thrush, two Redwings, and five Starlings. (N.E., 4; C. V.)

NOVEMBER 15th.—*South Bishop* L.H., from 100 to 150 Crows at 11.30 A.M. flying E.

NOVEMBER 16th.—*Skerries Rock* L.H., six Blackbirds and four Redwings killed against lantern-glass at 3.20 A.M. (S., 4.) One Snipe and some Lapwings flying round lantern at 3.45 A.M., but did not strike. One Waterhen killed against lantern-glass at 3.45 A.M. "Struck very hard." A large flock of Greenfinches at 7.45 A.M. flying W. Great number of Wild Fowl from 9 to 10.30 A.M. flying W. (W.N.W., 4; B. C. V.) *Carnarvon Bay* L.V., Starlings, Larks, Thrushes, and Snipe at 4 A.M.; one Starling, Thrush, and Snipe killed. (S., 4; B. C.) *Nash (E.)* L.H., one Skylark killed at 8 P.M. (E., 3; B. C. M.) *Burnham* L.H., Fieldfares about all day.

NOVEMBER 17th.—*Carnarvon Bay* L.V., Blackbirds and Starlings going S.S.E. at 10 A.M. *South Bishop* L.H., a party of ten Crows at 7 A.M. *Nash (E.)* L.H., two Snipe passed N.W. at 7 A.M.; and a flock of Golden Plover passed W. at 7.30 A.M. A great rush of Lapwings to-night. They commenced to arrive at

7.40 P.M., and continued until 11 P.M.; hundreds constantly flying round the lantern, within the rays of light. A few struck at times, and seven were killed. They were very noisy, and kept up quite a concert. They all left at 11.10 P.M. (E.S.E., 4; B. C. M.) *Breaksea* L.V., a Thrush killed at 11.40 P.M. *Seven Stones* L.V., a Crow flew on board at 6 P.M.; passed the night, and left for Scilly at 7 A.M. (18th). *Eddystone* L.H., a Jacksnipe caught at 3 A.M. (E.S.E., 5; B. C. V.) Flocks of Lapwings from 6 to 9 P.M. (E.N.E., 6; O. R. M.) Several Starlings, Thrushes, Redwings, Blackbirds, passing all night from 5.30 P.M. till 6 A.M. (18th); a few caught. (N.E., 3; O. M.)

NOVEMBER 18th.—*Chickens Rock* L.H., one "Rock Starling" and one Lark perched on lantern at 2 A.M. Four "Sea Snipe" and one Lapwing at 10 A.M. Lapwings going E. (2, N.E.; clear and frosty.) *Skerries Rock* L.H., large flock of Linnets and Chaffinches going S. at 8 A.M. Two large flocks of Wild Fowl going E. at 10 A.M. (S., 3; clear.) *South Bishop* L.H., several birds flying round the lantern from midnight to 3 A.M.; eight Blackbirds, two Starlings, two Larks, and three Thrushes killed. *Nash (E.)* L.H., a Jacksnipe killed at 3 A.M. Blackbirds from 3 to 4 A.M., three killed; Redwings from 3 to 4 A.M., six killed; Skylarks from 3 to 4 A.M., two killed; Song Thrushes from 3 to 4 A.M., four killed; Snipe, one killed at 3.30 A.M. (E., 3; B. C. M.) *Breaksea* L.V., Thrushes and Starlings from midnight (17th) to 4 A.M. (E.N.E., 4; O. M.) *Burnham*, the first Grey Wagtail seen. *Eddystone* L.H., for early morning movement see yesterday. A Land Rail on the gallery at 7 A.M. (N., 2; O. M.) Many birds passing from 11 P.M. to 3.30 A.M. (19th). Blackbirds, Thrushes, and Redwings. Caught two ♀ and one ♂ Blackbird; one Fieldfare, and fifteen Redwings killed. Numbers striking lantern and lost over. (N., 4; O. R. M.)

NOVEMBER 19th.—*River Dee* L.V., Thrushes, Larks, and Blackbirds round the lantern at 9.15 P.M.; one Thrush killed. (W.S.W., 2; B. C. V.) *Cardigan Bay* L.V., a flock of Greenfinches going S.E. at 2 P.M. *Helwick* L.V., a few Blackbirds from 8 P.M. to midnight; one (young) killed. (N., 3; G. M.) *Nash (E.)* L.H., a \*Knot killed at 2 A.M. (E., 2; O. M. R.) *Breaksea* L.V., Thrushes and other birds from 12 P.M. (18th) to 4 A.M. (N.E., 1; O. M. R.) *Longships* L.H., a good many Larks, Starlings, and Thrushes, from 1 A.M. till daylight. (E.N.E. to N.N.E., 4; misty.) *Eddystone* L.H., for early morning movement see yesterday.

NOVEMBER 20th.—*Helwick* L.V., a few Larks and Starlings around the lantern. (N.E., 4; c. M.) *Breaksea* L.V., many Lapwings, Thrushes, Blackbirds, Starlings, and other birds, from midnight to 4 A.M. (N.E., 5, 6; o. M. R.) *Eddystone* L.H., several Starlings and Redwings from 3.30 A.M. till 7 A.M. (N.N.E., 4; c. M.)

NOVEMBER 21st.—*Chickens Rock* L.H., one Fork-Tailed Petrel flying about the rock at 7.30 A.M. One male Blackbird struck the lantern and was caught at 9.30 P.M. (3, S.S.E.; thick haze.) *Breaksea* L.V., a \*Coot caught at 5 A.M. (E.S.E., 4; o. F.)

NOVEMBER 22d.—*Chickens Rock* L.H., one Redwing struck heavily at 2 A.M., but was lost over. Number of Crows from daybreak till 9 A.M. going E. Ten Kittiwakes at 10 A.M. going E. These birds are seldom here at this season in such numbers, (3, E.; clear.) *South Bishop* L.H., sixty to seventy Crows at 10.15 and 11.30 A.M. flying E.

NOVEMBER 23d.—*South Bishop* L.H., seven flocks of Crows, of from six to thirty in a flock, from 8.30 to 11 A.M., flying to E. (E., 7; c. B. V.)

NOVEMBER 24th.—*South Bishop* L.H., Crows passing E. in single numbers from 9 to 11 A.M.

NOVEMBER 25th.—*Cardigan Bay* L.V., a large flock of Lapwings flying round the lantern at 2 A.M. *South Bishop* L.H., a flock of about thirty Crows at 10 A.M. flying E.<sup>1</sup> *Eddystone* L.H., a few Redwings from 1 to 3 A.M.; one caught. (W. by N., 4; o. v.)

NOVEMBER 26th.—*South Bishop* L.H., a Magpie alighted on the rock at 2 P.M. (S.W., 7; c. M.)

NOVEMBER 28th.—*Cumberland*, a female Great Grey Shrike, var. "*major*," shot at Cumwhinton, near Carlisle.

NOVEMBER 29th.—*Skerries Rock* L.H., a few Blackbirds, Thrushes, and Starlings flying round lantern from 5 to 6 A.M. (S.E., 4; o. M. R.)

## DECEMBER.

DECEMBER 3d.—*Chickens Rock* L.H., a number of Razorbills from early A.M. till 1 P.M. sitting on water. *Skerries Rock* L.H., a few Razorbills about to S.E. of island at 1.30 P.M. (S.W., 8; stormy.)

<sup>1</sup> Messrs Nicholas & Pell remark on the Crows passing this station since the 15th inst. :—"We never saw such a quantity of Crows pass before, during the ten years we have been stationed here."

DECEMBER 7th.—*Cumberland*, an immature Richardson's Skua at Allonby, felled by a stone while feeding on the carcass of a pig.

DECEMBER 9th.—*South Stack* L.H., one Fieldfare and one Lark struck the lantern and killed at 11.40 P.M.

DECEMBER 10th.—*St Tudwal's* L.H., a Bullfinch in the garden.

DECEMBER 11th.—*Chickens Rock* L.H., a number of Larks, one Song Thrush, one Starling, and one Brambling flying round light at 3.30 A.M. (2, E.; sleet shower.)

DECEMBER 12th.—*Breaksea* L.V., many Lapwings, Starlings, Blackbirds, and others, around the lantern from 12 P.M. to 4 A.M. (E.S.E., 4; o. m.) *Eddystone* L.H., "a few Thrushes and Warblers" passing from 12 P.M. to 7 A.M. (E., 2; c. v.)

DECEMBER 17th.—*Langness* L.H., one Redshank caught on lantern at 7 P.M. (S.W. strong breeze; clear.)

DECEMBER 21st.—*Nash (E.)* L.H., Fieldfares and Redwings passing at intervals from noon to 3 P.M. (N.E., 3.) *Eddystone* L.H., a Jacksnipe killed at 3 A.M. (N.N.E., 3; B. C. v.)

DECEMBER 22d.—*Langness* L.H., three Snow Buntings at 3 P.M. (N. fresh breeze; clear.) *Nash (E.)* L.H., eight to twelve Song Thrushes going S.W. at 9 A.M. Starlings and Fieldfares going W.S.W. from 9 A.M. to 3 P.M. *Portland (Low)* L.H., two Thrushes at 11.30 A.M.

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## IRISH COAST.

The Report for 1887 on the Irish coast is satisfactory. The schedules number seventy-five, from thirty-one stations. As a rule they never were better or more carefully filled, and the number of legs and wings and specimens is almost 150. In addition to the schedules, many letters have been received, either inquiring the names of species or remarking on the special movements of birds. This shows that the Irish light-keepers display an intelligent and increasing interest in birds, and are quite as anxious and as willing as their English and Scottish brethren to further the objects of this inquiry. It is a difficult task to select from so many observers any special names; but the schedules from the Fastnet, Tuskar, and Coningbeg Light-ship, and the number of specimens accompanying them, deserve to be gratefully recorded. Messrs George Dunleavy, Patrick Cullen, W. Clydesdale, Peter Page, Edward M'Kenna, J. M. Leary, and P. Corish were the contributors. Some light-keepers are more fortunately situated than others, and the excellence of a schedule is to some extent dependent on locality. At the same time at a bad station a watchful observer can often supply notes which enable us to comprehend more clearly the range over which the movements of certain species extend.

At all times it has been a matter for regret that the identification of birds by the light-keepers was not more accurate. Even trained ornithologists might readily err in distinguishing species flying past or around the lanterns, and it cannot be too strongly impressed on the light-keepers that *it is of vital importance to send a leg and wing of at least one specimen of every species killed striking. Uncommon birds should be forwarded in the flesh.*

As to rarities, 1887 stands ahead of any other year on the Irish coast. Two birds have been added to the Irish list—the Red-breasted Flycatcher (Mr Alfred B. Wall and Patrick Clancy), and the Lapland Bunting (Mr George Dunleavy). Both

were fortunately sent in the flesh—the former as a “small bird,” the latter as a “Twite.” Particulars of the occurrence of each is given in the body of the Report. The Greenland Falcon was received from the Skelligs (Messrs James Walsh and Benjamin Jeffers)—shot while eating a rabbit, September 28th. It has not been noticed on the west coast by the light-keepers since the winter of 1883-4. Probably *Falco candicans* loses its way migrating, or in following the numerous flocks of sea-fowl on their southerly journey from the arctic seas in the autumn. The Falcon sent from the Skelligs was a magnificent old male—legs yellow, and plumage unusually white. The Pied Flycatcher is reported to have been seen at the Fastnet on April 12th. Mr George Dunleavy says it was the same species as he sent the leg and wing of in October 1886. The first Irish specimen was killed April 18th, 1875, at Ballina (*Zoologist*, 1875, p. 4498), but other Irish records (see Report for 1886, p. 128) are autumnal.

A Redstart was received from the Fastnet, and the stations from which the Black Redstart is reported are more numerous than any year so far; these are authenticated by six specimens received. The stations extend from Arklow S. light-ship round the S. coast to Blackrock, Mayo. From the latter station no specimen was received, but the description in the schedule agrees with the Black Redstart. None have yet been observed at any light stations on the N. coast.

The Sedge Warbler is killed striking more frequently than any other Warbler; next comes the Whitethroat; but at the N. and N.W. stations no Warblers strike—the S. and S.E. coasts containing all the records. The legs and wings doubtfully referred to the Reed Warbler last year have been re-examined, and do not belong to that species. A Woodlark was received in the flesh, shot on the Tearaght Rock by Mr Ryan on October 20th, one of the last places in Ireland one would expect to meet this bird, even when migrating. This Lark has been seen so seldom in Ireland since *Thompson's Natural History* was published, in which it is described as a “resident but very local species,” that some questioned its right to be inserted in the Irish list, especially as no specimens were produced. It has not been known to breed in Ireland. The Snow Bunting, as is usual, occurs mainly on the N. and W.

coasts. In Ireland it is very rare inland, especially in the southern half.

The Lapland Bunting has already been referred to. It was found dead October 16th on the Fastnet Rock, and was forwarded in the flesh. It is a female, and probably of European origin, and is the first Irish record.

“Mountain Finches” were reported from the Skelligs in November 1886; but, with this exception, no Bramblings were mentioned in the schedules until 1887, and the Siskin appears for the first time, both species being authenticated by specimens. The distribution of some volumes of Morris’ “British Birds” has probably assisted in their identification, combined with information received in reply to parcels of legs and wings forwarded. Yet there can be no doubt 1887 was remarkable for the number of Bramblings and Siskins which visited Ireland. The data from light stations is too scanty to speak positively; but, unlike the Snow Bunting, the Brambling and Siskin seem to have no preference for the N. and N.W. coasts. “Linnets” is a term which has appeared in reports from the commencement. It occasionally includes, there is little doubt, other birds besides the Grey Linnet. Not a single leg or wing of the Grey Linnet has yet been received. The Bullfinch is seldom alluded to, and so far—using only the Irish migration reports—there is little or no evidence that it migrates at all.

In 1884 an extraordinary movement of Rooks from W. to E. was observed at the Tearaght and Skelligs in November; it lasted about three weeks. In 1887, about the same time, a similar occurrence is mentioned at the same stations. They are twenty miles apart, and both about nine miles from shore. There is no land to the westward nearer than America. On both occasions the birds are said to have appeared tired. On April 12th, a Hoopoe was shot at Eagle Island, E. (Mr Daniel Hawkins), off Mayo, and forwarded in the flesh.

From Blackrock (Mayo), Mr Edward Rohu forwarded a Turtle Dove—a rare and unexpected visitor in such a locality. From the Tearaght, Co. Kerry (Mr F. Ryan), the skin of a Spotted Crake—very rare in Ireland—was sent. Bird caught August 21st.

Between November 8th and 19th the Water Rail occurred at several stations all round Ireland, except on the W. coast, and in



all cases but one at a considerable distance from shore. Records authenticated by specimens killed striking.

A Bald Coot was killed striking the Arklow S. light-ship September 22d, and for the first time this species has appeared in our reports. Leg and wing received.

Considering the numbers of Woodcock which annually visit Ireland, the scanty information received from the light-stations as to its movements is surprising. It is insufficient to enable any one to form an opinion as to whether it arrives first on the W. coast or not, but the statement that it does so is contrary to what might be expected, and until supported by satisfactory evidence would be prudently omitted from our text books.

The observations on Gulls are of questionable value. Confusion between the species is inevitable, but they are continued in the hope that when the schedules for several years are compared some tangible fragment may be forthcoming. "Cream-coloured Gulls" were noted at Slyne Head, S., and at the Tearaght. They are probably Iceland Gulls, and from previous migration reports it may be gathered that a few straggle to the W. coast of Ireland almost every year. A Glaucous Gull is noted at Blackrock, Mayo, the first time this species has been definitely mentioned in the schedules. The Fork-tailed Petrel was found breeding on the Tearaght Rock in very limited numbers by Mr Ryan, who kindly forwarded a specimen and its egg. Particulars are given under this species.

The only stations at which the migratory movements of Wild Geese are returned in any number, are on the coast of Donegal. This has always been the case.

The autumn rushes of most species were on a larger scale than usual, and between the 10th and 13th of November the greatest migratory movement yet recorded on the Irish coast took place. As usual the S.E. stations experienced the rush most, but it was felt on the W. coast also. At the Tuskar countless numbers of Blackbirds, Thrushes, and Starlings passed. Chaffinches and Larks and other birds in smaller numbers accompanied them. The spring movements in February and March were also better defined than usual, but only a careful mapping out of the various entries all round the coast would enable one to make an accurate comparison with previous years.

As far as Waders are concerned, there is no evidence derived from the light-stations to show that they arrive in greater numbers on our N. coast in the autumn than on our S. and S.E. coasts.

One or two instances of Gulls chasing and killing small birds are given in schedules. (See under Skylark and Greenfinch.)

There are several entries of birds killed striking on clear nights, which is not usual.

At the conclusion of the preface to every Report it has been usual to express our thanks to the Irish light-keepers for their assistance and co-operation. This year such thanks were never better deserved. It may be that at times the letters of inquiry, legs and wings and specimens received from the light-keepers have remained unacknowledged for a long time. If this has been the case, it is only due to the great pressure of private business, between the intervals of which this Report alone can be written, and not from any wilful negligence or failure to appreciate the gratuitous services of the observers, for whom this apology is intended. To Mr Owen Armstrong, the secretary to the Irish Light Board, and to Captain Boxer, R.N., inspector of Irish Lights, we are under many obligations. Their co-operation is as necessary as the sanction of the Irish Light Board to the continuance of this inquiry, and for both we express our gratitude.

RICHARD M. BARRINGTON.

ALEXANDER G. MORE.

LIST OF LIGHT STATIONS.	Schedules Filled.	Legs, Wings, etc., Received.	Remarks on Schedules.	Spring.	Autumn.	Miles from Shore.	Names of Observers.
1. Fastnet, Co. Cork, .....	5	15	excellent.	x	x	8	George Dunleavy.
3. Old Head, Kinsale, Cork, .....	2	0	good.	x	x	-	Robert Tyrrell.
4. Mine Head, Waterford, .....	2	7	very good.	x	x	-	Edward M'Carron.
5a. Hook Tower, Wexford, .....	1	3	fair.	x	o	-	Richard Hamilton.
5.* Coningbeg Lt.-ship, Wexford,	5	24	excellent.	x	x	10	{ Patrick Cullen and Wm. Clydesdale.
6. Barrels Rock Lt.-ship, do.,	4	4	very good.	x	x	4	Charles H. M'Cabe.
7. Tuskar Rock, do.,	6	32	excellent.	x	x	7	{ P. Page, E. M'Kenna, J. M. Leary, and Patrick Corish.
7a. Lucifer Shoals Lt.-ship, do.,	1	1	good.	o	x	9	{ James Byrne and Michael Ansel.
8. Arklow Sth. Lt.-ship, Wicklow,	3	12	very good.	x	x	7	{ Patrick Clancy and Alfred B. Wall.
8.* Arklow North Lt.-ship, do.,...	3	0	very good.	x	x	8	William Daly.
11. Howth Baily, Dublin, .....	1	1	fair.	o	x	-	R. Armstrong.
12. Rockabill, Dublin, .....	5	2	fair.	x	o	5	Henry Kelly.
12b. South Rock Lt.-ship, Down,...	1	0	good.	o	x	3	{ Thomas Cooney and Henry Thompson.
14.* Maidens, South Antrim, . . . . .	1	0	fair.	o	x	5	B. Sole and J. Corish.
14. Maidens, North do., . . . . .	1	1	fair.	o	x	5	Richard Hamilton.
15. Rathlin, Antrim, .....	1	0	poor.	o	x	6	Patrick Keenan.
16. Innishtrahull, Donegal, .....	2	2	very good.	x	x	6	M. S. Kennedy.
17. Dunree Head, do., .....	2	0	good.	x	x	-	Jervis Brownell.
19. Tory Island, do., .....	2	7	very good.	x	x	9	Henry Kelly.
20. Arranmore, do., .....	2	0	very good.	x	x	5	{ Henry Williams and Thomas Fortune.
21. Rathlin O'Birne, do., .....	2	2	very good.	x	x	2	J. C. M'Ginley.
22. Killybegs, do., .....	7	0	very good.	x	x	-	Joseph Hill.
24. Broadhaven, Mayo, .....	2	0	fair.	x	x	-	John A. Murray.
26. Eagle Island, W., Mayo, .....	1	1	poor.	x	o	2	Hugh Keeney.
27. Blackrock, Mayo, .....	2	5	very good.	x	x	9	Edward Rohu.
31. Slyne Head, S., Galway, .....	3	0	very good.	x	x	3	Richd. Widdicombe.
32. Arran Island, N., do., .....	2	0	very good.	x	x	9	{ Thomas Fortune and Henry Williams.
34. Arran Island, S., do., .....	1	0	very good.	o	x	6	Charles P. Page.
36. Samphire Island, Kerry, .....	1	0	poor.	o	x	-	R. Phelan.
37. Tearaght, Kerry, .....	3	13	very good.	x	x	9	Francis Ryan.
39. Skelligs, Kerry, .....	3	9	very good.	x	x	9	James Walshe.

Legs, wings, etc., received, 142. Eagle Island, East, sent no schedule, but forwarded a rare bird—the Hoopoe. Galley Head, Dungarvan, Kish Light-ship, Copeland or Mew Island, Oyster Island, N., Blacksod Point, Clare Island, Slyne Head, N., Straw Island, Valentia, and Dursley Island—sent neither schedules nor legs or wings of birds, and are therefore omitted from the list; and four new stations—Hook Tower, Lucifer Shoals, South Rock Light-ship, and Maidens, North—have been added. As a whole the schedules were never better filled.

o=No reply. x=Schedules returned partly or wholly filled.  
Spring, replies received, 23. Autumn, replies received, 28.

## LEGS, WINGS, ETC., RECEIVED.

Species.	How Received.	How Procured.	Date.	Name of Station.
Greenland Falcon,	Rec'd. in flesh,	Shot, . .	28/ 9 mo.,	<i>Great Skellig.</i>
Merlin, . . .	"	" . .	19/10 mo.,	<i>Tearaght.</i>
Long-eared Owl, .	Leg and wing,	" . .	13/11 mo.,	<i>Tuskar.</i>
Spotted Flycatcher,	"	Killed st., <sup>1</sup>	1/ 6 mo.,	<i>BarrelsRock Lt.-ship.</i>
" " . . .	"	" . .	21/ 9 mo.,	<i>Coningbeg Lt.-ship.</i>
" " . . .	"	Shot, . .	2/10 mo.,	<i>Tearaght.</i>
Red-breasted Fly-catcher, . . .	Rec'd. in flesh,	Killed st., .	23/10 mo.,	<i>Arklow S. Lt.-ship.</i>
Missel Thrush, . .	Leg and wing,	" . .	12/11 mo.,	<i>Tuskar.</i>
Thrush, . . .	"	" . .	12/11 mo.,	<i>Fastnet.</i>
" . . .	"	{ Found dead on deck, . }	10/ 3 mo.,	<i>Coningbeg Lt.-ship.</i>
" . . .	"	Killed st., .	19/ 3 mo.,	"
" . . .	Rec'd. in flesh,	" . .	6/11 mo.,	"
" . . .	Wing, . . .	" . .	19/ 2 mo.,	<i>Tuskar.</i>
" . . .	Leg and wing,	" . .	21/10 mo.,	"
" . . .	"	" . .	21/ 3 mo.,	<i>Arklow S. Lt.-ship.</i>
" . . .	"	" . .	11/11 mo.,	"
" . . .	"	Shot, . .	28/10 mo.,	<i>Tearaght.</i>
Redwing, . . .	"	Killed st., .	12/11 mo.,	<i>Fastnet.</i>
" . . .	"	" . .	11/11 mo.,	<i>BarrelsRock Lt.-ship.</i>
" . . .	"	" . .	17/10 mo.,	<i>Tuskar.</i>
" . . .	"	" . .	12/11 mo.,	"
" . . .	"	" . .	22/12 mo.,	"
" . . .	"	" . .	12/11 mo.,	<i>Innishtrahull.</i>
" . . .	"	" . .	16/10 mo.,	<i>Tory Island.</i>
Fieldfare, . . .	"	Shot, . .	19/12 mo.,	<i>Mine Head.</i>
" . . .	"	Killed st., .	7/11 mo.,	<i>Tuskar.</i>
" . . .	"	" . .	9/11 mo.,	"
" . . .	"	" . .	16/10 mo.,	<i>Tory Island.</i>
" . . .	Rec'd. in flesh,	" . .	10/11 mo.,	<i>Eagle Island, W.</i>
Blackbird, . . .	Leg and wing,	" . .	16/ 7 mo.,	<i>Hook Tower.</i>
" . . .	"	" . .	20/ 2 mo.,	<i>Coningbeg Lt.-ship.</i>
" . . .	"	" . .	3/ 3 mo.,	"
" . . .	"	" . .	20/ 3 mo.,	"
" . . .	"	" . .	6/10 mo.,	"
" . . .	"	" . .	12/11 mo.,	<i>BarrelsRock Lt.-ship.</i>
" . . .	"	{ Caught at lantern, . }	14/11 mo.,	<i>Arklow S. Lt.-ship.</i>
" . . .	Wing, . . .	Killed st., .	19/ 2 mo.,	<i>Tuskar.</i>
" . . .	Leg and wing,	" . .	21/10 mo.,	"
" . . .	"	{ Caught at lantern, . }	7/11 mo.,	"
" . . .	"	Killed st., .	16/10 mo.,	<i>Tory Island.</i>
" . . .	"	Caught, . .	10/11 mo.,	<i>Blackrock, Mayo.</i>

<sup>1</sup> Killed st. = Killed striking lantern.

LEGS, WINGS, ETC., RECEIVED—*continued.*

Species.	How Received.	How Procured.	Date.	Name of Station.
Ring Ouzel,	Rec'd. in flesh,	Killed st.,	21/ 9 mo.,	<i>Tuskar.</i>
Redstart,	„	Caught,	5/10 mo.,	<i>Fastnet.</i>
Black Redstart,	„	„	19/10 mo.,	„
„	„	Killed st.,	23/10 mo.,	<i>Arklow S. Lt.-ship.</i>
„	„	Shot,	20/10 mo.,	<i>Skelligs.</i>
„	Leg and wing,	Found dead,	23/10 mo.,	„
„	„	Shot,	20/10 mo.,	<i>Tearaght.</i>
„	Rec'd. in flesh,	Caught,	21/ 3 mo.,	<i>Hook Tower.</i>
Stonechat,	„	Found dead,	20/10 mo.,	<i>Fastnet.</i>
Wheatear,	Leg and wing,	Killed st.,	15/ 3 mo.,	<i>Tuskar.</i>
Sedge Warbler,	„	„	15/ 5 mo.,	<i>Coningbeg Lt.-ship.</i>
„	„	„	30/ 5 mo.,	„
„	„	„	6/10 mo.,	<i>Tuskar.</i>
Whitethroat,	„	Caught,	20/ 9 mo.,	<i>Mine Head.</i>
„	„	Killed st.,	16/ 5 mo.,	„
Willow Wren,	„	Found dead,	22/ 5 mo.,	<i>Coningbeg Lt.-ship.</i>
„	„	„	24/ 4 mo.,	<i>Arklow S. Lt.-ship.</i>
„	Wing,	„	13/ 4 mo.,	<i>Tearaght.</i>
Goldcrest,	Leg and wing,	Shot,	22/10 mo.,	„
Blue Tit,	„	„	14/ 3 mo.,	<i>Mine Head.</i>
Pied Wagtail,	„	Found dead,	28/ 2 mo.,	<i>Fastnet.</i>
„	„	Caught,	22/ 9 mo.,	<i>Tuskar.</i>
Grey Wagtail,	„	Killed st.,	8/10 mo.,	<i>Coningbeg Lt.-ship.</i>
Meadow Pipit,	„	„	21/ 9 mo.,	„
„	„	Found dead,	8/10 mo.,	„
„	„	Killed st.,	12/11 mo.,	<i>Tuskar.</i>
„	„	Found dead,	23/10 mo.,	<i>Skelligs.</i>
Skylark,	„	„	16/10 mo.,	<i>Fastnet.</i>
„	Wing,	Killed st. (?)	19/ 2 mo.,	<i>Tuskar.</i>
„	Leg and wing,	„	19/10 mo.,	„
„	„	„	21/10 mo.,	„
„	„	Caught,	11/11 mo.,	„
„	„	Killed st.,	18/10 mo.,	<i>Tory Island.</i>
Woodlark,	Rec'd. in flesh,	Shot,	20/10 mo.,	<i>Tearaght.</i>
Snow Bunting,	Leg and wing,	„	3/ 5 mo.,	„
Lapland Bunting,	Rec'd. in flesh,	Found dead,	16/10 mo.,	<i>Fastnet.</i>
Blackheaded Bunting,	} „	Caught,	12/11 mo.,	<i>Arklow S. Lt.-ship.</i>
Yellow Bunting,	„	.....	30/11 mo.,	<i>Maidens, North.</i>
„	„	.....	8/ 9 mo.,	<i>Arklow S. Lt.-ship.</i>
Chaffinch,	Leg and wing,	Found dead,	17/10 mo.,	<i>Fastnet.</i>
„	„	„	9/12 mo.,	„
„	„	Caught,	16/10 mo.,	<i>Mine Head.</i>
„	„	Found dead,	13/ 5 mo.,	<i>Coningbeg Lt.-ship.</i>
„	Rec'd. in flesh,	Killed st.,	13/11 mo.,	„
„	„	„	7/11 mo.,	<i>BarrelsRockLt.-ship.</i>

LEGS, WINGS, ETC., RECEIVED—*continued.*

Species.	How Received.	How Procured.	Date.	Name of Station.
Chaffinch, . . .	Wing, . . .	.....	29/ 3 mo.,	<i>Tuskar.</i>
„ . . .	Leg and wing,	Killed st., .	16/10 mo.,	„
„ . . .	„ . . .	„ . . .	17/10 mo.,	„
„ . . .	„ . . .	Shot, . . .	22/11 mo.,	<i>Blackrock, Mayo.</i>
„ . . .	„ . . .	Found dead,	22/10 mo.,	<i>Skelligs.</i>
Brambling, . . .	Rec'd. in flesh,	Killed st., .	12/11 mo.,	<i>Arklow S. Lt.-ship.</i>
„ . . .	Leg and wing,	Shot, . . .	20/10 mo.,	<i>Tearaght.</i>
„ . . .	„ . . .	„ . . .	10/11 mo.,	<i>Skelligs.</i>
House Sparrow, . . .	„ . . .	„ . . .	14/ 3 mo.,	<i>Mine Head.</i>
Greenfinch, . . .	Rec'd. in flesh,	Killed st., .	9/11 mo.,	<i>Lucifer Shoals.</i>
„ . . .	Leg and wing,	Caught, . . .	12/11 mo.,	<i>Blackrock, Mayo.</i>
„ . . .	„ . . .	Shot, . . .	20/10 mo.,	<i>Tearaght.</i>
Siskin, . . .	Rec'd. in flesh,	Caught, . . .	18/10 mo.,	<i>Fastnet.</i>
„ . . .	„ . . .	Killed st., .	20/10 mo.,	„
„ . . .	„ . . .	„ . . .	11/11 mo.,	<i>Coningbeg Lt.-ship.</i>
„ . . .	Leg and wing,	Found dead,	3/12 mo.,	<i>Tuskar.</i>
„ . . .	„ . . .	Shot, . . .	24/10 mo.,	<i>Skelligs.</i>
„ . . .	„ . . .	Found dead,	18/11 mo.,	„
„ . . .	Rec'd. in flesh,	Shot, . . .	19/10 mo.,	<i>Tearaght.</i>
Starling, . . .	Leg and wing,	Found dead,	13/11 mo.,	<i>Fastnet.</i>
„ . . .	„ . . .	Killed st., .	19/ 3 mo.,	<i>Coningbeg Lt.-ship.</i>
„ . . .	„ . . .	„ . . .	20/ 3 mo.,	„
„ . . .	„ . . .	„ . . .	16/10 mo.,	<i>Tuskar.</i>
„ . . .	„ . . .	„ . . .	10/12 mo.,	<i>Arklow S. Lt.-ship.</i>
„ . . .	„ . . .	„ . . .	16/10 mo.,	<i>Tory Island.</i>
Swallow, . . .	Rec'd. in flesh,	Caught, . . .	5/10 mo.,	<i>Fastnet.</i>
„ . . .	Leg and wing,	Found dead,	4/ 5 mo.,	<i>Coningbeg Lt.-ship.</i>
Swift, . . .	„ . . .	„ . . .	22/ 5 mo.,	<i>Tuskar.</i>
Hoopoe, . . .	Rec'd. in flesh,	Shot, . . .	12/ 4 mo.,	<i>Eagle Island, East.</i>
Rock Pigeon, . . .	Leg and wing,	„ . . .	19/10 mo.,	<i>Tuskar.</i>
Turtle Dove, . . .	„ . . .	„ . . .	27/ 6 mo.,	<i>Blackrock, Mayo.</i>
Corncrake, . . .	„ . . .	Found dead,	1/ 5 mo.,	<i>Mine Head.</i>
„ . . .	„ . . .	„ . . .	16/ 6 mo.,	<i>Skelligs.</i>
Spotted Crake, . . .	Skin received,	Caught, . . .	21/ 8 mo.,	<i>Tearaght.</i>
Water Rail, . . .	Leg and wing,	Killed st., .	6/11 mo.,	<i>Coningbeg Lt.-ship.</i>
„ . . .	„ . . .	Found dead,	14/11 mo.,	<i>Tuskar.</i>
„ . . .	Rec'd. in flesh,	Killed st., .	8/11 mo.,	<i>Hook Tower.</i>
„ . . .	„ . . .	„ . . .	11/11 mo.,	<i>Rockabill.</i>
„ . . .	Leg and wing,	„ . . .	12/11 mo.,	<i>Innishtrahull.</i>
„ . . .	„ . . .	Caught, . . .	16/11 mo.,	<i>Tory Island.</i>
„ . . .	Rec'd. in flesh,	Shot, . . .	19/11 mo.,	<i>Tearaght.</i>
Bald Coot, . . .	Leg and wing,	Killed st., .	22/ 9 mo.,	<i>Arklow S. Lt.-ship.</i>
Green Plover, . . .	„ . . .	„ . . .	16/ 2 mo.,	<i>Rockabill.</i>
Woodcock, . . .	„ . . .	„ . . .	11/11 mo.,	<i>Tuskar.</i>
Jack Snipe, . . .	„ . . .	Found dead,	7/10 mo.,	„
„ . . .	„ . . .	Caught, . . .	11/11 mo.,	„

LEGS, WINGS, ETC., RECEIVED—*continued.*

Species.	How Received.	How Procured.	Date.	Name of Station.
Jack Snipe, . . .	Leg and wing,	Killed st., . . .	10/10 mo.,	<i>Arklow S. Lt.-ship.</i>
Whimbrel, . . .	Rec'd. in flesh,	Shot, . . .	29/11 mo.,	<i>Fastnet.</i>
Common Tern, . . .	Leg and wing,	Killed st., . . .	6/10 mo.,	<i>Coningbeg Lt.-ship.</i>
Manx Shearwater,	„	„ . . .	15/ 5 mo.,	„
„ . . .	Rec'd. in flesh,	„ . . .	10/ 5 mo.,	<i>Howth Baily.</i>
Fork-tailed Petrel,	Skin received,	Caught, . . .	15/11 mo.,	<i>Blackrock, Mayo.</i>
„ . . .	Rec'd. in flesh,	„ . . .	21/ 6 mo.,	<i>Tearaght.</i>
Stormy Petrel, . . .	Leg and wing,	„ . . .	21/ 9 mo.,	<i>Coningbeg Lt.-ship.</i>
„ . . .	„	Killed st., . . .	15/ 9 mo.,	<i>Tory Island.</i>
White-fronted Goose, . . . } . . .	„	Shot, . . .	3/ 5 mo.,	<i>Rathlin O' Birne.</i>
Brent Goose, . . .	„	„ . . .	10/ 7 mo.,	„

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## EAGLES.

*Samphire Island*.—November 14th, two "White-tailed Eagles" going inland at noon; wind light N.W.

*Tearaght*.—December 4th, one Eagle. This bird had a white tail.

GREENLAND FALCON (*Falco candicans*, Gmel.).

*Skelligs*.—September 28th, one "Jer Falcon," 4.30 P.M.; wind strong N. Shot at 5 P.M. while feeding on a rabbit. [Received a magnificent old male Greenland Falcon in the flesh.]

## HAWKS.

*Fastnet*.—March 14th, "one Hawk larger than a Sparrow Hawk, but not so large as a Falcon, and of a deep brown colour," on rock; wind fresh N.W. May 1st, one "Kite" going S. October 23d, one "small Hawk," remained three days on rock. November 16th, one "Kestrel Hawk" flying S.W.

*Mine Head*.—April 15th, eggs taken from Peregrine's nest. Laid again and reared young birds.

*Coningbeg Light-ship*.—September 29th, one Hawk about ship, 9.30 A.M.; wind light N.E., clear. November 8th, one Sparrow Hawk flying N.W.; wind N.E., strong.

*Barrels Rock Light-ship*.—May 26th, one "Sparrow Hawk and a Wren lit on deck together," but flew away on trying to catch them, 11 A.M.; wind N.E., fresh, clear.

*Tuskar*.—March 4th, one "Hawk" at 10 A.M., wind E.; 9th, two "Hawks" at noon, wind S.; 16th, one "Hawk," 10 A.M.,



wind strong. October 8th, one "Hawk" going N.W. December 5th, one "Hawk" on rock.

*Arklow South Light-ship*.—March 26th, two "Hawks" going W.; gloomy.

*Arklow North Light-ship*.—November 4th, one "Hawk" going S., noon; wind fresh N., clear.

*Rockabill*.—January 15th, one "Sparrow Hawk" about rock, 9 A.M.

*Innishtrahull*.—April 11th, two "Merlin Hawks" on island, wind light S.E.; 16th, two, one shot. May 8th, one.

*Dunree Head*.—January 19th, February 20th, June 13th, one Hawk seen. August 4th and 10th, one.

*Tory Island*.—April 3d, "two Falcon Hawks" about island. May 15th, "two Sparrow Hawks" do. Hawks breed here.

*Arranmore*.—March 23d, one Sparrow Hawk. April 6th, one Peregrine. June 1st, one Kestrel. October 1st, Falcon and Kestrel seen. A pair of Falcons, Kestrels, and Sparrow Hawks breed here annually.

*Rathlin O'Birne*.—June 29th, "two Sparrow Hawks" on island. I have seen them kill several small birds.

*Broadhaven*.—"Sparrow Hawk" resident. Noted October 7th, December 13th.

*Eagle Island, W.*—February 2d to 8th, large Hawk about island.

*Blackrock, Mayo*.—January 11th, 1888, two Falcons soaring.

*Slyne Head, S.*—October 11th, one "Falcon Hawk" here every day at times.

*Arran Island, N.*—November 19th, two "Peregrine Hawks."

*Arran Island, S.*—October 9th, two "Sparrow Hawks" chased a small bird, which flew into dwellings.

*Tearaght*.—October 19th, one Merlin shot. [Received in flesh.]

*Skelligs*.—Peregrine breed here. Two to four seen in September. October 15th, one Sparrow Hawk, 9 A.M.; wind light N.E. November 7th, two Peregrines.

#### OWLS.

*Mine Head*.—July 26th, one seen.

*Tuskar*.—March 20th, two "Owls at 11 A.M." going N.E.; wind light S.E., hazy. November 13th, one shot on rock,

11.30 A.M.; wind light E., overcast. [Leg and wing of Long-eared Owl received.]

*Slyne Head, S.*—March 8th, one “Grey Owl” on island. October 19th, one owl on island, “grey, white, and yellow coloured.” November 5th, do.

*Arran Island, N.*—October 18th, one “Brown Owl” shot at noon.

SPOTTED FLYCATCHER (*Muscicapa grisola*, Linn.).

*Coningbeg Light-ship.*—September 21st, one killed striking. [Leg and wing received.]

*Barrels Rock Light-ship.*—June 1st, flock of small birds flying N.W., 9 A.M.; calm, thick haze, one killed against rigging. [Leg and wing of Spotted Flycatcher received.]

*Tearaght.*—October 2d, one Flycatcher shot 11 A.M.; wind light N.E. [Leg and wing of Spotted Flycatcher received.]

RED-BREASTED FLYCATCHER (*Muscicapa parva*, Bech.).

*Arklow South Light-ship.*—October 23d, “several small birds about lantern 7 P.M. to 5 A.M.; wind fresh S.W., gloomy; several killed and fell overboard; two sent by post.” [Red-breasted Flycatcher and Black Redstart received in flesh.—R. M. B.]

PIED FLYCATCHER (*Muscicapa atricapilla*, Linn.).

*Fastnet.*—April 12th, a small bird on rock, name unknown; wind light S.E., hazy. “This is the same sort as the one I sent the leg and wing of (in 1886) which you thought was a Flycatcher; was unable to capture it.” [A Pied Flycatcher’s leg and wing was forwarded by Mr Dunleavy on October 5th, 1886. See Report for 1886, p. 128.]

MISSEL THRUSH (*Turdus viscivorus*, Linn.).

*Fastnet.*—March 2d, 1.30 A.M., one striking, “seemed a very large size;” wind light S.W., hazy; 4th, two about light, 7 A.M., one killed striking, a large size; wind light S.E., hazy.

*Tuskar.*—November 12th, one killed striking. [Leg and wing received.] Wind light E., cloudy.

*Blackrock, Mayo.*—October 20th, three on rock; wind light

N.; 24th, one at lantern, 10 P.M.; gale from W. November 9th, one on rock; wind fresh N.E.; 10th, several about lantern at night, one caught.

THRUSH (*Turdus musicus*, Linn.).

*Fastnet*.—November 12th, one killed striking. [Leg and wing received.]

*Old Head, Kinsale*.—January 10th, a flock flying N. October 5th, a great many flying E.

*Coningbeg Light-ship*.—March 3d, one found dead on deck. [Leg and wing received.] March 19th, flocks about lantern, 9 P.M. to midnight; some killed striking. [Leg and wing received.] Gloomy; wind light E. September 19th, four going S., 7 A.M., clear; wind light N.E. October 21st, 22d, and 23d, Thrushes about lantern at night; wind light, overcast; 24th, three on ship; 25th, one. November 6th, one killed striking. [Received in flesh.] November 7th, two on ship and others about lantern at night; 8th, 10th, 11th, 13th, 14th, about lantern; two killed striking on 11th, and on 13th and 14th many killed and fell overboard; weather generally gloomy; wind E.; but night of 14th is entered clear; on 12th and 15th, one or two about ship in daytime. (See under Starling.) 21st, three about light, 10 P.M. to midnight; wind fresh S.E., rain; 22d, one at lantern, 9 P.M. December 23d, several at lantern, midnight to 4 A.M.; wind fresh N.W., showers; some killed striking.

*Tuskar*.—February 19th, numbers about lantern at night; very clear, wind W.; five killed striking. [Wing of Thrush received.] March 2d, three on balcony, 10 P.M. to 4 A.M.; calm, hazy; 9th, three at lantern, 10 P.M., two dead. March 10th, four on rock, 10 P.M.; 11th, some at lantern; wind fresh S., hazy; 20th, great rush, several at lantern, four killed striking; wind light, hazy. October 8th, one rested on rock; 21st, numbers at lantern, four killed; wind light, clear. [Leg and wing received.] 23d, going in twos and threes for land, all morning; wind fresh S.W., clear. November 2d, two killed striking; 3d, several striking, some killed; 4th, 10th, 11th, 14th, countless numbers at lantern; 6th, 7th, 8th, 9th, 12th, 13th, 23d, many at lantern; 5th, 16th, a few at lantern; and see under Blackbird, observations entered there for November also apply to Thrush as to

time of striking, numbers killed, etc. December 30th, two going N.W.

*Lucifer Shoals Light-ship.*—October 22d, great number at lantern, midnight; gloomy, wind light S.E.; several killed striking. November 12th, four "Garden Thrushes" killed striking, 11.30 P.M.; gloomy.

*Arklow South Light-ship.*—February 16th and 19th, several about lantern, 10 P.M.; wind light S.W., gloomy; two killed. March 21st, one killed striking, 2 A.M. [Leg and wing received.] October 21st, about lantern, 12 to 3 A.M.; wind light, gloomy; one killed striking; also 10 P.M. to 7 A.M. on 22d, about lantern, cloudy. "This time of year with W. or S.W. winds, and gloomy or rainy weather, I always see great numbers of birds from the Welsh shore about lantern." 26th, about lantern, 3 to 4 A.M.; wind fresh S.W., gloomy. November 11th, about lantern, 7 P.M. to 4 A.M.; one dead on deck. [Leg and wing received.] 14th, flock, 11 A.M., going N.W.; 21st, one killed striking, 9 P.M.; wind fresh, rain.

*Arklow North Light-ship.*—February 19th, March 2d, and December 3d, two killed striking on each occasion. October 7th and 19th, going N.W. in morning; wind N.; on 12th, 20th, and December 7th, about lantern at night.

*Howth Baily.*—November 12th, large numbers at lantern, midnight to 4 A.M.; many killed, fog.

*Rockabill.*—January 3d, 5th, and 6th, February 17th and 20th, Thrushes on rock; wind S.W. to N.W., strong. (See also under Skylark.)

*South Rock Light-ship.*—November 13th, one killed striking, 4 A.M.

*South Maidens.*—October 12th, two killed striking; wind strong N.

*North Maidens.*—October 16th, constantly striking, 9 to 12 P.M.; wind fresh N.W., cloudy; twelve killed; 17th, do., three killed striking; 21st, 9 P.M. to 1 A.M., striking; wind N.W.; two killed.

*Innishtrahull.*—March 28th, two at lantern, 9 to 11 P.M.; wind light W. October 17th, one striking glass, 11 P.M.; wind light N.W. November 11th, two at lantern all night; wind light E., dark. Birds scarce this winter; not a Thrush to be seen from middle November until 16th January 1888. Black-birds and Thrushes seem coming back now (16th January 1888), as I saw about two dozen this evening.

*Dunree Head*.—December 14th, fourteen going S.W.

*Tory Island*.—March 11th, a few about light, 1 A.M.; wind N.W., strong. They do not breed here. October 16th to 20th, numbers at lantern, some killed striking; cloudy. (See note under Blackbird for this station.)

*Arranmore*.—October 14th, about light all night; four caught; 22d, one caught at lantern, 10 P.M.

*Rathlin O' Birne*.—November 14th, eight going W. Did not remain on island.

*Killybegs*.—November 18th, 21st, 23d, and 28th, one to six.

*Slyne Head, S*.—October 17th, six on island; 19th, several; 21st, at lantern all night, twelve killed striking; overcast, wind light S.E. November 4th, several; 9th to 13th, do.; on night of 10th, numbers at lantern, and numbers of birds [Thrushes?] on nights of 12th and 13th. December 2d, several on island.

*Arran Island, N*.—February 19th, two on island. October 10th, five. December 24th, five; 30th, several on rock.

*Arran Island, S*.—October 23d, flocks at 4 A.M.; eight killed striking, "female birds;" wind light N.E., cloudy. November 1st, Thrushes and Blackbirds, plenty on island; 13th, Blackbirds, Wagtails, Tits, Thrushes, and Robins, plenty on island.

*Tearaght*.—March 26th, Starlings and Thrushes which were here during winter months left on this date. October 28th, one shot. [Leg and wing received.]

*Skelligs*.—October 19th, two all day; wind light S.W., misty. November 7th, about fifty.

#### REDWING (*Turdus iliacus*, Linn.).

*Fastnet*.—October 17th, one struck, 2 A.M.; gloomy, wind light S.E.; 21st, numbers around light; clear, wind light E.; 22d, all day on rock; wind light S., hazy. November 12th, large numbers striking all night, two killed, several captured asleep on rock; wind light S.E., gloomy. [Leg and wing of Redwing received.] 13th, four going N.E.; 14th, several around light, 1 A.M. to daylight; clear, wind light E.; 17th, numbers about light; hazy, wind light S.W.

*Mine Head*.—October 16th, first seen since spring, plentiful all winter. November 10th, several seen about lantern, one killed; 12th, some about lantern; gloomy, wind E.

*Coningbeg Light-ship*.—November 18th, one at 11 A.M.; wind fresh W.

*Barrels Rock Light-ship*.—March 8th, three going N. at noon. November 11th, Redwings going N., 7 P.M.; wind light E., gloomy; one killed striking, 10 P.M. [Leg and wing received.] 12th, going N., midnight to 5 A.M.; wind light E., gloomy; also from 8 P.M. to midnight, one killed striking; 13th, going N., midnight to 4 A.M.; wind light S.E., gloomy; a few about light all night.

*Tuskar*.—March 3d, about thirty "Redwing Thrushes" on balcony all night; wind light E., cloudy, one killed. October 17th, two killed striking, 3 A.M. [Received legs and wings.] Wind light N.W., clear; 23d, numbers at lantern, 3 A.M., one killed striking; clear, wind fresh. November 12th, great many round lantern, some killed. [Leg and wing received.] December 11th, about lantern, 11 P.M. to 6 A.M., calm, one killed striking; 22d, great numbers about light, 1 to 3 A.M., eleven killed striking. [Leg and wing received.] Wind light W., cloudy; 25th, one on rock.

*North Maidens*.—October 21st, striking, 9 P.M. to 1 A.M.; wind N.W., fresh, two killed.

*Innishtrahull*.—November 12th, one killed striking, 4 A.M.; calm, dark. [Leg and wing received.]

*Tory Island*.—October 16th to 20th, numbers about lantern all night; some killed striking. [Leg and wing received.]

*Blackrock, Mayo*.—November 9th, one round lantern; wind N.E.; 10th, some at lantern, wind N.E., gloomy.

*Slyne Head, S.*—November 13th, one on island. December 2d and 30th, two.

*Skelligs*.—November 5th, two all day.

#### FIELDFARE (*Turdus pilaris*, Linn.).

*Mine Head*.—December 19th, one shot. [Leg and wing received.]

*Tuskar*.—October 24th, one killed striking, 10 P.M., clear but squally; wind N. November 7th, one found dead on rock. [Leg and wing received.] 9th, one killed striking. [Leg and wing received.]

*North Maidens*.—October 21st, constantly striking 9 P.M. to 1 A.M., two killed.

*Tory Island*.—October 16th to 20th, a few at lantern at night, six killed striking. [Legs and wings of two received.]

*Arranmore*.—November 7th, some near station all day.

*Broadhaven*.—December 5th, ten. "Numerous this season."

*Eagle Island, W.*—November 11th, bird killed striking. "I have seen none like it before." [Fieldfare received in flesh.]

*Blackrock, Mayo*.—November 2d, one on rock; wind fresh S.W.; 21st, one; wind fresh S.E.

*Slyne Head, S.*—November 1st, 4th, 8th, and 11th, one to four on island.

*Arran Island, N.*—October 8th, two.

*Arran Island, S.*—November 8th, two; first this year.

*Tearaght*.—November 7th, several Fieldfares.

#### BLACKBIRD (*Turdus merula*, Linn.).

*Fastnet*.—March 2d, one female, 1.30 A.M., striking; wind light S.W., hazy; 10th, several females on rock at noon; clear, wind light S.E. From 2d to 9th March, while on shore, observed numbers of what seemed female Blackbirds flying S. in evenings. (See under Starling.) March 13th, Blackbirds, Thrushes, Fieldfares, Starlings, and small birds seem very numerous this winter on shore. October 16th, one struck, 10 P.M.; gloomy, wind light E. October 24th, numbers around lantern all night; clear, wind fresh N.E. November 10th, numbers at lantern, several struck; wind light S.E.

*Old Head, Kinsale*.—January 10th, six alighted; wind fresh W. October 25th, several flying N.; wind E., light.

*Mine Head*.—March 7th, one seen. November 13th, one killed striking.

*Hook Tower*.—July 16th, one killed striking, 2 A.M. [Leg and wing received.]

*Coningbeg Light-ship*.—February 20th, one killed striking. [Leg and wing received.] March 3d, one killed striking. [Leg and wing received.] March 20th, flocks about lantern, midnight to 4 A.M., some killed striking—[Leg and wing received]—snow showers, wind light N.E. September 17th, five flying S., 7 A.M.; clear, wind light N.E. October 6th, one killed striking. [Leg and wing received.] 21st, about light, 6 P.M. to midnight; 22d and 23d, about light, 9 P.M. to midnight; 24th, three on ship; wind fresh N.E.; 26th, one on ship. November 4th, one do.;

7th, two on ship and numbers about light, 7 to 10 P.M.; wind N.E., fresh, showery; 8th, about lantern; wind fresh E.; 9th, one in daytime; on 10th, 11th, 13th, 14th, and 15th, about lantern at night, four killed striking on 11th, and several killed and fell overboard on 13th and 14th; wind S.E. to N.E., gloomy at night, except on 14th; on 12th, two going N.W. in daytime; 15th, some about ship. (See under Starling.)

*Barrels Rock Light-ship.*—November 9th, some going N., 8 to 11 P.M.; wind fresh N.E., cloudy; 10th, three going N., 8.30 A.M.; one rested on ship; wind light N.E., clear; 12th, some going N., midnight to 5 A.M.; wind light E., gloomy; one killed striking. [Leg and wing received.]

*Tuskar.*—February 19th, numbers at lantern at night; wind W., very clear; two cocks killed striking. [Wing received.] March 3d, Blackbirds appeared in large numbers at night, many wounded, five found dead; wind E., fresh, cloudy; 8th, two at night; 9th, two on balcony, 9.30 P.M.; 10th, three on rock all night; calm, clear; 20th, many at lantern, three killed striking; wind light S.E., hazy. October 5th, one on rock; wind fresh N.E.; 21st, numbers at lantern, two killed striking; wind light N.E., clear. [Leg and wing received.] 23d, numbers about light, two killed striking; 27th, one at 10 A.M. going N.W. During November enormous numbers of Blackbirds, Thrushes, and Starlings passed the Tuskar light. Blackbirds are entered thus in schedule: A few on 2d, 5th, 6th, 16th, 17th, 18th, 19th, 20th, and 30th; several on 3d, 7th, 8th, and 9th; on 7th, one caught at lantern. [Leg and wing received.] Countless numbers on 4th, 10th, 11th, 12th, 13th, 14th, and 23d. Most birds were killed striking, 4th, 10th, 11th, 12th, 13th, 14th. *All the birds killed up to the 14th were killed at N.W. or land side of lantern.* In the beginning of November the birds passed between 6 and 9 P.M.; on the 11th, they first passed all night; wind westerly strong to the 5th, easterly fresh, 5th to 14th. Most birds killed on cloudy nights. Migration up to 14th took place at night. On the 2d and 4th, it is remarked that the Blackbirds passing were chiefly females. December 7th, one at lantern; 11th, several about lantern, 11 P.M. to 6 A.M.; wind light N.E.; 18th, one at noon; 22d, a few about light, 1 to 3 A.M., one killed striking; wind light W.; 25th, 26th, and 27th, one or two noted on rock.



*Lucifer Shoals Light-ship*.—October 11th, one going W. rested on ship. November 13th, one caught at lantern, 8 P.M.; overcast.

*Arklow South Light-ship*.—January 29th, five, 10 P.M.; wind light S.W., cloudy. March 3d, some about lantern, midnight to 4 A.M.; wind light, cloudy. October 26th, about lantern, 3 to 4 A.M.; wind fresh S.W. November 11th, several about lantern, 7 P.M. to 4 A.M., many fell overboard; 14th, one caught at lantern, 9 P.M.; wind light. [Leg and wing received.]

*Arklow North Light-ship*.—February 7th, one killed striking; wind fresh S.E., hazy. October 16th, two killed striking; 18th, great flocks about lantern, some killed; wind light W., overcast. December 10th, a quantity; 13th, 14th, 15th, 21st, about lantern, midnight; wind generally strong, snow or rain; some killed striking.

*Howth Baily*.—November 12th, large numbers at lantern, midnight to 4 A.M., many killed striking; fog.

*Rockabill*.—January 3d, 5th, and 6th, Blackbirds on rock; wind S. to N.W., strong. February 16th, about lantern, 1 A.M.; wind S., light, misty; 20th, a few on rock; wind N.W., fresh. (See also under Skylark.) November 10th. (See under Starling.)

*Maidens, N.*—October 16th, constantly striking, 9 to 12 P.M., thirty-six killed; wind fresh N.W., cloudy; 17th, five killed striking; 21st, constantly striking, 9 to 1 A.M.; wind light N.W. Five males and twenty-one females killed.

*Rathlin Island*.—December 10th, two dozen at lantern midnight; stormy, wind S.; two killed striking.

*Innishtrahull*.—March 28th, one at lantern 9 to 11 P.M.; wind light W. October 24th, one on island 9 A.M.; wind N.W., stormy. November 11th, one striking lantern; wind light E., dark. (See note under Thrush for this station.)

*Tory Island*.—From October 16th to 20th large numbers, with Starlings, Thrushes, and Larks about lantern at night; weather cloudy; ten killed striking. [Leg and wing of Blackbird received, killed on 16th.] Also in numbers during November, December, and January 1888 in day-time, but not at lantern.

*Arranmore*.—November 7th, some near station all day.

*Rathlin O' Birne*.—October 31st, two on island; gale from S.

*Killybegs*.—November 7th and 28th, one.

*Blackrock, Mayo.*—October 20th, two on rock; wind light N. November 9th, two do.; wind strong E.; 10th, Blackbirds during night about lantern, one caught. [Leg and wing received.] 12th, one caught at lantern.

*Slyne Head, S.*—October 27th, one all day on island; wind strong S.W. November 1st and 4th, one; 9th to 12th, several on island. On night of 10th numbers at lantern, and on nights of 12th and 13th numbers of birds [Blackbirds?] at lantern; 12th, one killed striking. December 2d and 30th, two on island.

*Arran Island, N.*—October 17th, five. December 21st, six; 30th, some on rock.

*Arran Island, S.*—October 23d, one killed striking, 4 A.M. November 1st, plenty on island; 13th, great numbers of Blackbirds on island, principally females; calm, hazy. "Wagtails, Tits, Thrushes, and Robins," plenty also.

*Skelligs.*—January 10th, one; 20th to 26th, two. October 5th, one on island, female; 19th, six all day, females; wind light S.W.; 24th, four. November 7th, flock all day; wind light N.E.; 18th, four on island. December 28th, five.

#### RING OUZEL (*Turdus torquatus*, Linn.).

*Fastnet.*—September 22d, one about light, 8 P.M.; wind fresh S.E., gloomy. Caught and let go again. Size and shape of female Blackbird, white crescent on breast.

*Mine Head.*—March 7th, one seen, and several times afterwards.

*Tuskar.*—September 21st, one killed striking, 3.30 A.M.; wind light S.E., hazy. [Received in flesh.]

*Skelligs.*—March 4th, two Ring Ouzels; 6th, one.

#### HEDGE SPARROW (*Accentor modularis*, Linn.).

*Mine Head.*—October 16th, one or two always about.

*Tuskar.*—March 3d, about twenty "Hedge Sparrows" on rock night and day; wind fresh E., cloudy; two killed striking; 10th, three on rock; calm, clear.

*Skelligs.*—October 13th, one at 10 A.M.; wind light N.E.

#### ROBIN (*Erithacus rubecula*, Linn.).

*Fastnet.*—October 25th, one all day on rock; wind fresh N.E., clear.

*Mine Head*.—November 22d, one killed against wall.

*Tuskar*.—March 8th, two Robins about all day; wind light S.E., cloudy.

*Arranmore*.—January 12th, 1888, two Robins near station.

*Killybegs*.—October 22d, one seen.

*Slyne Head, S*.—October 24th, one Robin Redbreast all day on island.

*Arran Island, N*.—December 8th, two all day.

*Arran Island, S*.—November 13th. (See note under Blackbird at this station.)

*Skelligs*.—October 19th, one all day; wind light S.W., misty.

#### REDSTART (*Ruticilla phoenicurus*, Linn.).

*Fastnet*.—October 5th, one caught at lantern, 8 P.M.; wind light S.E., gloomy. [Received in flesh.]

*Rockabill*.—August 26th, “shot a male Redstart.” [Was this a common or Black Redstart? See Report for 1886, p. 136.]

#### BLACK REDSTART (*Ruticilla titys*, Scopoli).

*Fastnet*.—April 12th, one on rock, 4 P.M.; calm, hazy. October 19th, one on rock, 5 P.M.; wind light S.W., gloomy; very brilliant plumage. One at 8 P.M. caught in store. [Received in flesh.]

*Mine Head*.—October 25th to 27th, one Redstart in garden. December 19th, one.

*Hook Tower*.—March 21st, one caught. [Received in flesh.]

*Arklow South Light-ship*.—October 23d, one killed striking. [Received in flesh.] (See note under Red-breasted Flycatcher.)

*Blackrock, Mayo*.—March 28th, “small bird, the size of a Robin, dark slate-colour all over, with the exception of the base of the tail, which was reddish-brown.” [Probably above species.] November 5th, one Black Redstart on rock; wind strong S.; 11th, one.

*Slyne Head, S*.—October 20th, “one slate-coloured Wren with a long tail” on island. [Black Redstart?]

*Samphire Island*.—December 31st, “saw this morning a bird about the size of the Common Wren—perhaps it may have been a little larger—of a dusky olive colour all over, but a little lighter on the breast; black bill and legs; when wings were

expanded it was a bright red from wings to butt of tail." [Can the birds seen at this station and Slyne Head be Black Redstarts?]

*Tearaght.*—October 20th, ten Black Redstarts—one shot. [Leg and wing received.] November 1st, one.

*Skelligs.*—October 20th, one shot; wind light S.E., gloomy. [Received in flesh.] 23d, one found dead. [Leg and wing received.]

#### "STONECHAT."

*Fastnet.*—October 20th, "one Blackcap" dead on rock; wind light W. [Stonechat received in flesh.]

*Old Head, Kinsale.*—April 10th, "three Stonechats arrived;" wind fresh E.; 12th, ten seen; wind strong E.

*Coningbeg Light-ship.*—October 11th, one "Chit-chat" about lantern; wind N. gale, clear; 16th, three "Chit-chats" about ship 1 A.M.; wind fresh N.E., clear.

*Innishtrahull.*—April 9th, two all night at lantern; wind light E., misty.

*Tory Island.*—March 12th, some "Stonechats" about island; breed here. October 16th to 20th, a few "Stonechats" about lantern.

*Rathlin O' Birne.*—April 2d, five "Stonechats;" wind light W., misty. Breed here, and remain until August. 4th, four.

*Tearaght.*—October 8th, one seen on island.

#### WHEATEAR (*Saxicola œnanthe*, Linn.).

*Fastnet.*—April 10th, one on rock; wind strong S.E. September 22d, six about light; wind fresh S.E., gloomy; 23d, numbers about light, 8.30 P.M. to 1 A.M.; wind fresh S.E., gloomy.

*Mine Head.*—March 30th, several—the first observed this year.

*Tuskar.*—March 15th, one on lantern, 6 P.M., caught; wind strong N.E., clear. [Received in flesh.] 25th, two on rock. August 16th and 17th, one all day; 22d, one found dead; hazy. September 17th and 18th, one all day on rock.

*Arranmore.*—March 30th, two Wheatears. April 4th, six seen. May 12th, one killed striking.

*Tearaght.*—April 20th, seen for first time. September 24th, not seen after this date.

*Skelligs*.—March 16th, four—first this year. Breed here. October 8th, several seen—one shot; wind light N.

SEDGE WARBLER (*Acrocephalus schoenobaenus*, Linn.).

*Coningbeg Light-ship*.—May 15th, three “small birds” about lantern, 2 A.M.; rain, calm; one killed. [Leg and wing of Sedge Warbler received.] 30th, six “small birds” about lantern, midnight to 3 A.M.; gloomy, wind fresh N.E.; one killed.

*Hook Tower*.—May 11th, 12th, 16th, and 17th, some striking, 11 P.M. to 1 A.M.; twelve killed. (See under Whitethroat.) [Leg and wing of Sedge Warbler received.]

*Tuskar Rock*.—May 14th, ten “Chiffchaffs” killed striking; wind fresh N.E., clear. [Probably Sedge Warblers.] October 6th, one “Reed Warbler” killed striking, 10 P.M.; wind light E., cloudy. [Leg and wing of Sedge Warbler received.]

*Arklow North Light-ship*.—September 21st, “Wrens” about ship in morning. [Possibly above species.] Wind light N.E., hazy.

WHITETHROAT (*Sylvia rufa*, Bodd.).

*Mine Head*.—May 16th, one found killed in dome of light-house. [Leg and wing received.] May 27th, one caught; fog. September 20th, one caught striking, 11 P.M. [Leg and wing received.] 21st, one found killed.

*Hook Tower*.—May 11th, “Whitethroats and Sedge Warblers” constantly striking; twenty-five killed; wind strong N.W., clear; 12th do.; ten killed; wind strong N., clear; 16th do.; eighteen killed; wind light N., clear; 17th, a few striking; three killed; wind light E. On each date the birds struck from 11 P.M. to 1 A.M. In all, only twelve Sedge Warblers killed.

*Tuskar*.—May 14th, thirteen killed striking; wind fresh N.E., clear.

WILLOW WREN (*Phylloscopus trochilus*, Linn.).

*Coningbeg Light-ship*.—May 22d, one “small bird” caught on deck, 1 P.M.; clear, wind fresh N. [Leg and wing of Willow Wren received.] October 25th, a “Wood Warbler” on ship.

*Arklow South Light-ship*.—April 24th, one found dead on deck, 5 A.M. [Leg and wing of Willow Wren received.]

*Tearaght*.—April 13th.—[Wing of Willow Wren received.]

GOLDEN-CRESTED WREN (*Regulus cristatus*, Koch).

*Fastnet*.—October 8th, one around light, 1 A.M.; wind light N.W., gloomy.

*Mine Head*.—September 16th, "a Golden-crested Wren?"

*Rockabill*.—November 10th, "no Goldcrests this year. I think they were all killed three years ago, when they fell here in scores."

*South Maidens*.—October 7th, one at lantern, 11 P.M.; wind fresh W.

*Arran Island, S.*—October 24th, one on balcony 10 P.M.; wind light S. November 11th, one at 4 A.M., disabled striking; stopped on balcony; wind E., very light, hazy.

*Tearaght*.—October 22d, one shot. [Leg and wing received.]

WREN (*Troglodytes parvulus*, Koch).

*Fastnet*.—October 5th, one all day on rock; wind light N.E., gloomy; 15th and 17th, one all day.

*Barrels Rock Light-ship*.—May 26th, one. (See under Hawk.)

*Lucifer Shoals Light-ship*.—October 5th, one "Wren" rested on deck, and flew to land; wind light N.E.

*Tuskar*.—One seen at intervals on rock during October.

*Innishtrahull*.—November 14th, 15th, 16th, 30th, and December 6th, one noticed on island.

*Rathlin O' Birne*.—April 28th, one "Common Wren" on island.

*Blackrock, Mayo*.—October 21st, two "Common Wrens" during day; wind fresh S.E.; also noted November 2d, 16th, and January 11th, 1888. [Possibly resident.]

*Slyne Head, S.*—October 11th, one on island; 29th, one, and two to four at intervals to December 30th. [Probably residents.]

*Arran Island, N.*—October 21st, two.

*Skelligs*.—March 6th, two.

## "TITS."

*Mine Head*.—March 10th, one Blue Tit shot. [Leg and wing received.]

*Arran Island, S.*—(See note under Blackbird at this station.)

## WAGTAIL.

*Fastnet*.—February 27th, one "Water Wagtail" all day; wind fresh S.S.W., hazy; 28th, one found dead on rock; supposed to be one seen yesterday. [Leg and wing of Pied Wagtail received.] March 6th, two on rock, 10 A.M.; foggy, wind light S.E. October 17th, one all day on rock; wind light S.E., gloomy.

*Mine Head*.—March 7th, one seen.

*Coningbeg Light-ship*.—September 25th, one going N.E., 5 P.M.; wind light S.W., hazy. October 8th, one killed striking. [Leg and wing of Grey Wagtail received.]

*Tuskar*.—March 9th, one on rock, 3 P.M.; wind light W., cloudy. September 22d, one caught. [Leg and wing of Pied Wagtail received.]

*Lucifer Shoals Light-ship*.—October 5th, four going N.W., 7 A.M.

*Tory Island*.—June 15th, two about island.

*Arranmore*.—April 27th, two seen.

*Slyne Head, S*.—October 11th, three "Grey Wagtails" on island; wind strong N.

*Arran Island, N*.—February 12th, two remained a month. October 27th, two "Grey Wagtails" all day.

*Arran Island, S*.—November 13th. (See note under Black-bird at this Station.)

*Tearaght*.—March 30th, a "White Wagtail" here for past fortnight; not seen after this date. October 9th, one on island; 20th, one "Grey-headed Wagtail" shot.

*Skelligs*.—March 4th, one Wagtail. October 4th, one "Grey Wagtail" on island; wind light S.E.

TITLARK (*Anthus pratensis*, Linn.).

*Fastnet*.—March 6th, one found dead on rock at noon; foggy, wind light S.E.; 9th, one at 9 P.M., captured in lighthouse; wind light S.E., clear. On the night of 4th and 5th March, numbers of small birds about light, supposed to be Larks and Chaffinches. March 15th, one on rock; wind fresh N.E. September 23d, numbers about light; wind fresh S.E., gloomy. October 16th, one on rock; 20th, one; 22d, several all day on rock; wind light S., hazy; 23d, several ditto; 25th, two. November 9th to December 11th, one to four at intervals, on rock.

*Mine Head*.—February 9th, one found killed.

*Coningbeg Light-ship*.—March 26th, flocks flying N.; rain, wind light S.W.; 30th, twelve flying N.; clear, wind light N.E. September 21st, some "Larks" about lantern, 8 P.M. to midnight; two killed striking. [Received legs and wings of two Titlarks.] October 8th, one "Lark" found dead, 3 P.M.; clear, wind light N.E. [Leg and wing of Titlark received.] December 22d, one about ship.

*Barrels Rock Light-ship*.—March 6th, small flocks going N., 10 A.M.; calm, foggy; 21st, one going N. November 5th, flocks of Titlarks passing N.W., 9 A.M. to noon; wind fresh W.

*Tuskar Rock*.—September 18th, 21st, and October 6th, one or two seen. November 12th, one killed striking. [Leg and wing received.] Wind light S.E., cloudy.

*Arklow South Light-ship*.—March 6th, 11th, 19th, 31st, some noted in daytime; 18th, 22d, 26th, about lantern. September 21st, some about ship.

*South Maidens*.—"No birds seen for quarter ending September 30th except a few Titlarks."

*Tory Island*.—March 12th, Titlarks about island; breed here.

*Rathlin O' Birne*.—June 15th, nine Titlarks on island; remain all the year.

*Killybegs*.—Two to four noted about station October 11th to November 5th.

*Slyne Head, S*.—On island all November.

*Skelligs*.—January 20th to 26th, several; resident; breed here. October 23d, one found dead. [Leg and wing received.]

#### SKYLARK (*Alauda arvensis*, Linn.).

*Fastnet*.—March 14th, one at noon; wind N.W.; 15th, two; wind N.E., fresh. October 15th, numbers, 8 P.M. to 11 P.M., about light; hazy; several struck; 16th, one found dead. [Leg and wing received.] Numbers striking all night; six killed; wind S.E., light, gloomy. October 21st, numbers of "Larks" all night about lantern; clear; numbers striking, none killed; wind light S.E.; 22d, several all day on rock; hazy. November 10th, numbers of "Larks" about light, 1 A.M. to daylight; wind light S.E.; 12th, two about light; gloomy.

*Old Head, Kinsale*.—May 7th, great number; wind strong



W. November 27th and 29th, several going E.; wind W. December 6th, five; 14th, several.

*Mine Head*.—November 22d, one found killed on balcony.

*Ovingbeg Light-ship*.—September 17th, 21st, and 23d, four to five "Larks" flying N.E. October 6th, three "Larks" about lantern, 9 P.M.; clear, wind light N.E.; 13th, five flying N., 11.30 A.M.; wind N.E.; 15th, two about ship, 7 A.M.; clear; 16th, a flock passing; 20th, seven "Larks" seen; 23d, three about light; 25th, a flock going N.E. November 2d, two; 5th, some; 6th, four flocks going N.E.; wind light E.; 10th, flock going N.; 11th, about lantern; gloomy; 12th, flocks going N. in daytime; wind S.E., clear; 17th, one about ship; wind light S.W.; 24th, six "Larks" flying S., 10 A.M.; wind light N.W., clear.

*Barrels Rock Light-ship*.—March 8th, about twenty going N.; a few Larks noted passing N. October 20th, 22d, and 23d. November 8th, Larks going N. 8 P.M.; a few also noted passing N. on 9th, 10th, 16th, and 17th. *On 10th saw a Gull chasing one which seemed exhausted.*

*Tuskar*.—February 19th, one killed striking. [Wing of Skylark received.] Weather very clear; wind fresh W. March 3d, three "Larks" on rock, two died; wind fresh E., cloudy; 7th, three on rock, two died; wind light S.E. September 20th, six on rock. October 6th, one; 19th, numbers all night; three killed striking; wind light S.W., clear. [Leg and wing received.] October 20th, twenty all day on rock; clear; 21st, numbers striking at midnight, fifteen killed. [Leg and wing received.] Wind light N.E., clear; 22d, twenty going N., 8 A.M.; wind S.E., light. November 6th, five; 7th, four; 8th, six; 10th, a few; 11th, several, one caught. [Leg and wing received.] November 12th, a few; 13th, great numbers; 14th, countless numbers. (These entries refer to night, and the Larks seem to have accompanied the Blackbirds and Thrushes, etc.; particulars as to the number of *each* species killed striking are not given.) 23d, Larks at lantern, 2 A.M. to daylight; three killed striking. December 11th, Larks about light, 11 P.M. to 6 A.M.; calm, showery; 20th, one on rock; 22d, a flock going N.W., 1 P.M.

*Lucifer Shoals Light-ship*.—October 7th, a few rested, *one with broken leg killed by Gulls*. November 24th, several about lantern, 4.30 A.M.; wind light, clear.

*Arklow South Light-ship*.—January 23d and 24th, several at lantern, 1 A.M. to 4 A.M.; some killed on 23d; wind S.W., light, gloomy. March 18th, some going N.W., 5 to 6 A.M.; wind N.W., snow showers. September 16th, four, 10 A.M., going N.W.; 19th, a flock going N.W. October 21st, about lantern, midnight to 3 A.M.; one killed striking; also 10 P.M. to 4 A.M. on 22d, about lantern; one killed striking, cloudy; 29th and 30th, large flocks going N.W. about 11 A.M.; wind strong S.W. November 5th, flock going W.; wind S.W., light; 12th, one disabled.

*Arklow North Light-ship*.—"Larks" noted at night, September 22d, October 15th, 16th, 20th. In daytime, October 2d, 5th, 7th, 8th, 11th, 13th, 17th, 19th, 21st, 25th, 27th. On December 7th, 10th, 13th, 14th, 15th, 21st, and 28th, about lantern. General direction of flight N.W. during October.

*Howth Baily*.—October 15th, two "Larks" disabled striking; 26th, about forty birds, "supposed to be Larks," going W. November 12th, large numbers at lantern; many killed striking, midnight to 4 A.M.; fog.

*Rockabill*.—January 5th, 6th, and February 17th, about rock; wind variable. "October 3d, a few nights ago there was great rush of Skylarks, Thrushes, Blackbirds, Snipe, and Landrail."

*South Rock Light-ship*.—November 30th, one about ship.

*South Maidens*.—October 12th and 13th, several at night; some killed striking. November 10th, 28th, December 10th and 28th, one to three noted.

*North Maidens*.—October 21st, striking 9 P.M. to 1 A.M.; about one hundred killed. November 14th, 9 to 11 P.M., striking, five killed; stormy, wind N.E., overcast.

*Rathlin Island*.—October 11th, one killed striking, midnight; foggy, wind strong E.

*Innishtrahull*.—March 19th, numbers of Larks striking lantern, 10 P.M. to midnight; wind light N.W., very dark; 20th, do., midnight to 4 A.M.; wind fresh S.E.; 28th, nine about lantern all night; wind light S.W., very dark. October 16th, one at midnight striking. November 12th, two striking at 4 A.M.

*Tory Island*.—March 11th, a few about light, 1 A.M.; wind N.W., strong, clear. April 5th, Skylarks remain and breed here. October 16th to 20th, numbers about lantern at night; seven killed striking; cloudy. (See note under Blackbird for

this station.) [Leg and wing of Skylark, killed striking on 18th, received.]

*Arranmore*.—October 9th, eight about station.

*Rathlin O' Birne*.—Larks arrived about March 15th, and breed on island; nearly all leave beginning of August and go to mainland. (See under Titlark.)

*Killybegs*.—Two to eight about station in October. November 16th, one killed striking, midnight; a gale from S.W., misty.

*Blackrock, Mayo*.—October 23d, one at lantern, 11.40 P.M.; wind fresh S.W.

*Slyne Head, S.*—October 21st, at lantern all night; eight killed striking; wind light S.E.; 29th, two on island. November 1st to 9th, several on island. Never saw so many without frost or snow.

*Arran Island, N.*—November 8th, ten. December 12th, six.

*Skelligs*.—October 1st, three; 19th, several all day.

#### WOODLARK (*Alauda arborea*, Linn.).

*Tearaght*.—October 20th, one Woodlark shot. [Received in flesh.]

#### SNOW BUNTING (*Plectrophanes nivalis*, Linn.).

*Tuskar*.—March 18th, three on rock, 10 A.M.; wind light S.E., clear.

*Rockabill*.—January 20th, two about rock, 11 A.M.; wind fresh N.W., clear.

*Rathlin Island*.—October 24th, large flock of "Snow Buntings" passed lantern at midnight.

*Innishtrahull*.—March 24th and 25th, about one dozen on island each day; stormy, wind N.W. April 24th, two at 11 A.M.; a gale, wind N.W.; one very white. October 24th, ten on island; stormy, wind N.

*Arranmore*.—March 18th, twenty going N. April 21st and 22d, two to four going W. and N.W. October 6th, seven near station; wind light S.W. November 7th, some near station.

*Rathlin O' Birne*.—March 10th, twenty on island; gale, wind S., misty. Remained till end of month. December 15th, three; 20th, six; a gale from N.

*Broadhaven*.—November 9th, "Lapland Bunting—cock and hen," noted. [Snow Buntings?]

*Blackrock, Mayo.*—November 1st, one male Snow Bunting on rock, wind strong S.W.; 4th, do.; wind N.W. December 24th, "It is remarkable that but one or two Snow Bunting have visited the rock this winter."

*Arran Island, N.*—November 14th, eleven.

*Arran Island, S.*—October 28th, one at 4 P.M.; wind N.W., light.

*Tearaght.*—May 3d, two shot by assistant keeper. [Leg and wing received.] October 1st, two on island; wind N.E., light; 3d, one shot.

#### LAPLAND BUNTING (*Plectrophanes lapponicus*, Linn.).

*Fastnet.*—October 16th, "a Skylark and Twite (supposed) found dead on rock, 9 A.M.; wind light E., clear." [The bird supposed to be a Twite was forwarded in the flesh, and proved to be a female Lapland Bunting.] The night of October 15th was hazy, with the wind light from N.E.; and numbers of "Skylarks and Starlings" are stated to have been around the lantern.

#### REED OR BLACK-HEADED BUNTING (*Emberiza schæniclus*, Linn.).

*Arklow South Light-ship.*—November 12th, "several kinds large and small birds at lantern, 7 P.M. to midnight; wind light S., gloomy." [One Black-Headed Bunting and one Brambling received in flesh.]

#### YELLOW BUNTING (*Emberiza citrinella*, Linn.).

*Arklow South Light-ship.*—November 13th, one caught at lantern; wind light N. [Received in flesh.]

*Blackrock, Mayo.*—November 13th, one on rock, 10 A.M.; wind light S.

*North Maidens.*—November 24th, one killed striking, 10 P.M.; wind strong S.W., gloomy. [One received in flesh November 30th, probably this specimen.]

*Arranmore.*—January 8th, 1888, nine on island.

*Blackrock, Mayo.*—November 13th, one on rock, 10 A.M.; wind light E.

CHAFFINCH (*Fringilla cœlebs*, Linn.).

*Fastnet*.—March 6th, one on rock, 10 A.M.; foggy, wind light E.; 11th, several all day; wind S.W., hazy. On the night of 4th and 5th March, numbers of small birds about light, supposed to be Larks and Chaffinches; 16th, one on rock. October 16th, numbers striking all night, none killed; wind light S.E., gloomy; 17th, several on rock, one found dead—[Leg and wing received]—gloomy, wind light E.; 23d, several on rock all day; hazy, wind light W. November 9th, one on rock; 10th, one found dead—died from exhaustion; wind light S.E.; 11th, numbers all night around lantern; wind light S.E., hazy; about twenty at noon on rock; 12th, one captured in dwelling at 8 A.M.; four round lantern at night; gloomy; 13th, three on rock, 9 A.M., clear; 17th, thirty on rock at 8 A.M.; clear, wind light S.; 19th, one dead on rock; squally, wind strong N.W.; 27th, one on rock; a gale from N.W. December 9th, one dead in tower; wind strong N.W. [Leg and wing received.]

*Mine Head*.—October 16th, first seen since spring; plentiful all winter; one caught at lantern. [Leg and wing received.] November 21st, one killed striking.

*Coningbeg Light-ship*.—May 13th, one caught on deck, 10 A.M.; clear, wind light N.E. [Leg and wing received.] September 21st, about lantern, 8 P.M. to midnight; hazy, wind light E.; three killed striking. October 8th, one killed striking, 9 P.M.; wind N.E., fresh, clear; 12th, two about lantern; 16th, one going N.E., and at night one, and several small birds about lantern; overcast, wind light N.; 19th and 21st, one about ship; 22d and 23d, two or three about light. November 7th, three on ship; 13th, one killed striking. [Received in flesh.] Wind light S.E., gloomy; 17th, two about ship in day; wind light S.W., clear. December 19th, two flying N., 10 A.M.; wind fresh N.W.

*Barrels Rock Light-ship*.—October 29th, three going N., rested on ship and went towards land; wind fresh W., clear. November 6th, ten going N.W.; 7th, one killed striking. [Leg and wing received.]

*Tuskar*.—March 13th, four on rock, one dead; wind strong N.E., clear; 16th, two on rock, one dead; wind N.E. [29th, wing received; date when killed not given.] September 21st,

one all day; wind light S.E., haze. October 16th, two killed striking; wind light N.E., clear. [Leg and wing received.] 17th, twelve on rock, three killed striking; wind light, clear. [Leg and wing received.] 20th, some on rock all day; wind S., light; 22d, three at lantern; wind fresh, clear; 23d, 24th, 25th, and 30th, a few in daytime; wind strong, variable. November 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 13th, 14th, 16th, 19th, Chaffinches; two or three entered daily; seem to have accompanied the tremendous rush of Blackbirds, Thrushes, and Starlings, which took place in November 1887 at the Tuskar. (See under Blackbird.)

*Arklow South Light-ship*.—October 23d, one seen. November 13th, three on deck; wind light.

*Arklow North Light-ship*.—March 11th, about ship, noon; wind light S.W., clear; 22d and 26th, about lantern, midnight; wind S.W., fresh; 31st, flock of "finches" going N.W., 10 A.M.; wind N.W., light. October 24th, four all day on ship; wind strong N.E., clear; 28th, two on ship all day; wind fresh W.

*Howth Baily*.—October 15th, one disabled striking; 29th, two at lantern, 8 P.M.; November 12th, large numbers at lantern, midnight to 4 A.M., many killed striking; fog.

*Rockabill*.—February 10th, about rock, 1 P.M.; wind N.E., fresh. November 10th, see under "Starling."

*South Rock Light-ship*.—November 14th, one about ship.

*North Maidens*.—November 21st, two seen; wind strong S.E.

*Blackrock, Mayo*.—October 22d, four on rock; wind strong N.E. November 8th, a flock; wind ditto; 9th, one struck lantern, 6 P.M.; 10th, some about lantern; wind light N.E., gloomy; 22d, two shot. [Legs and wings of both received.] Wind strong N.E.

*Slyne Head, S.*—October 11th, one on island; wind strong N. November 8th, two flocks. December 26th and 30th, several.

*Tearaght*.—October 24th, large flock seen to-day.

*Skelligs*.—October 22d, one found dead. [Leg and wing received.] November 5th, eleven all day; wind light S.E.

#### BRAMBLING (*Fringilla montifringilla*, Linn.).

*Tuskar*.—October 20th, one "Mountain Chaffinch" killed striking.

*Arklow South Light-ship*.—November 12th, one killed striking. [Received in flesh.] (See note under Black-Headed Bunting.)

*Tearaght*.—October 20th, one shot. [Leg and wing received.]

*Skelligs*.—November 10th, forty "Mountain Finches" all day; wind light S.E.; one shot. [Leg and wing received.]

#### SPARROW (*Passer domesticus*, Linn.).

*Mine Head*.—March 14th, one shot. [Leg and wing received.]

*Tuskar*.—March 9th, five "Sparrows" on lantern, 10 P.M.; one dead; wind light S., cloudy.

*Tory Island*.—March 12th, flocks of Sparrows about island. April 5th, some noted; breed here.

*Killybegs*.—November 13th, four seen.

*Slyne Head, S.*—March 30th, two "House Sparrows" on island.

*Arran Island, S.*—November 16th, great flocks of "Sparrows" on island to-day; wind E., strong, hazy.

#### GREENFINCH (*Coccothraustes chloris*, Linn.).

*Fastnet*.—October 16th, numbers striking all night; one killed; gloomy, wind light S.E.; 17th, about fifty Chaffinches and Green Linnets on rock all day; gloomy; 20th, one struck light, 3 A.M.; gloomy, wind light S.W. November 13th, two on rock; wind light S.E., clear.

*Mine Head*.—March 14th, one seen.

*Coningbeg Light-ship*.—September 17th, six flying S.; wind N.E., light, clear. November 16th, one about ship, 4 P.M.; wind light S.W., clear.

*Barrels Rock Light-ship*.—April 29th, two going N. October 22d, seven going N. November 7th, two going N., 10 A.M.; wind fresh N.E., clear; one killed by Gulls close to ship. (See also under Skylark.)

*Tuskar*.—October 26th, numbers at sunset, remained all night; stormy, wind S.W. December 3d, one found dead; 25th, one on rock.

*Lucifer Shoals Light-ship*.—October 5th, one going N.W. November 9th, one killed striking. [Received in flesh.]

*Arklow South Light-ship*.—October 21st, one Green Linnet caught.

*Rockabill*.—November 10th (see under “Starling”).

*Rathlin Island*.—November 24th, large flock at sunset; stormy, wind S.E.

*Blackrock, Mayo*.—November 12th, one male Greenfinch caught at lantern, 10 P.M.; wind light S.E., overcast. [Leg and wing received.]

*Slyne Head, S.*—October 19th, one Green Linnet on island; 20th, one killed striking.

*Arran Island, N.*—December 2d, five.

*Tearaght*.—October 20th, six Greenfinches, one shot. [Leg and wing received.] November 12th, large flock seen on island.

#### GOLDFINCH (*Carduelis elegans*, Steph.).

*Arranmore*.—December 28th, one near station.

#### SISKIN (*Carduelis spinus*, Linn.).

*Fastnet*.—October 18th, one bird, name unknown, caught at lantern; wind light S., gloomy. [Siskin received in flesh.] October 20th, one dead on rock. [Received in flesh.] Wind light W.

*Coningbeg Light-ship*.—November 11th, one caught, 11 A.M.; wind light S.E., gloomy. [Received in flesh.]

*Tuskar*.—December 3d, one found dead. [Leg and wing received.]

*Rockabill*.—November 7th, about sixty Siskins for half-an-hour, “the first that came here for three years;” came from N.E.

*Slyne Head, S.*—November 1st, two birds on island, smaller than a Green Linnet, more yellow but the same green colour. [Possibly Siskins.]

*Tearaght*.—October 19th, several Siskins seen; one shot. [Received in flesh.]

*Skelligs*.—October 24th, flock of Siskins; wind light S.E.; one shot. [Leg and wing received.] November 18th, one found dead. [Leg and wing received.]

#### “REDPOLE.”

*Blackrock, Mayo*.—April 27th, one on rock, 9 A.M.; wind strong N.W.



## "LINNETS."

*Fastnet*.—November 12th, thirty "Grey Linnets" going N.E.; wind light S.E.

*Old Head, Kinsale*.—February 16th, flocks flying N.; May 10th, flocks alighted; June 20th, several flying N.; October 20th, November 12th, 14th 18th, and 20th, several.

*Coningbeg Light-ship*.—March 6th, twelve going N.W.; fog, wind light E.; 11th, three going N.; wind fresh S.W. September 19th, nine flying S.; clear, wind N.E., light; 29th, four seen going N.E. October 1st, 15th, and 16th, one to seven; 20th, four about light; 23d, four; 29th, flock going N.E. November 12th, flying N.E. during day; wind light S.E., clear.

*Barrels Rock Light-ship*.—March 3d and 4th, small flock going N. in mornings; 12th and 13th, a few all day going N.; wind fresh E.; 18th, do., going N., 3 P.M. April 9th, one going E. October 16th, flocks going N., 10 A.M. to noon; 23d, some going N.; wind light W. November 9th, three going N.; 10th, three "Grey Linnets" going N. December 4th, six going N.W.

*Tuskar*.—March 8th, three all day. October 17th, two "Linnets or Twites" going N.W.

*Lucifer Shoals Light-ship*.—October 7th and 9th, flock going W.; 20th, one; 30th, several flocks going W., 10 A.M. November 24th, several about lantern, 4.30 A.M.

*Arklow North Light-ship*.—March 2d, flock going N.W. October 8th, do. going E., noon; wind strong N.; 10th and 11th, several flocks going N.W.; wind strong N.; 27th, flock going N.W., noon.

*South Rock Light-ship*.—December 11th, large flock going S.W.

*South Maidens*.—November 29th, December 4th, 6th, 15th, 30th, one to two noted.

*Innishtrahull*.—October 10th, numbers of "Scotch Linnets" will remain during winter.

*Tory Island*.—March 12th, flocks about island. April 5th, do. Grey Linnets breed here.

*Arranmore*.—October 3d, six Linnets; 6th, flocks near station. November 16th, some on island.

*Rathlin O' Birne*.—March 15th, fifty to eighty all day; wind fresh N.; ten killed (striking?). Large flocks up to April 1st.

October 28th, about thirty on island; first this winter. December 20th, about thirty remained a month.

*Killybegs.*—A few noted at intervals during April, May, and June, and several almost daily noted about station, October 1st to November 30th.

*Broadhaven.*—October 17th, forty seen. Linnets resident.

*Slyne Head, S.*—October 15th, numbers of Grey Linnets every day during month.

*Arran Island, N.*—October 31st, twenty. December 27th and 30th, several on rock.

*Arran Island, S.*—October 16th, flocks going S. all day; wind light N.

#### “ TWITE.”

*Tuskar.*—October 8th, twenty “Twites” going N.W. November 25th and 30th, do. December 2d, 5th, 9th, and 10th, one to six “Twites” noted.

*Blackrock, Mayo.*—October 21st, flock of “Mountain Twites” during day; wind strong S.E.

*Tearaght.*—September 18th, several Twites arrived.

#### “ BULLFINCH.”

*South Maidens.*—October 9th and November 24th, one “Bullfinch” on rock.

*Blackrock, Mayo.*—April 24th, one “Bullfinch” on rock at noon; wind strong N.W.

*Arran Island, S.*—November 10th, “two Bullfinches,” male and female, caught alive at 8 P.M.; wind light E., hazy.

#### STARLING (*Sturnus vulgaris*, Linn.).

*Fastnet.*—February 28th, hundreds from 10 P.M. to 6 A.M. around light; wind light S.W., hazy; none killed or captured. March 1st, numbers from 9 P.M. to 11 P.M. heard overhead; wind light S.W., clear—seemed to go S.; 2d, numbers striking, 1 A.M. to 4 A.M.; hazy, wind light S.; none killed; 3d, numbers about light, 3 A.M. to 4 A.M.; wind light W.S.W., hazy. While on shore from 11th to 18th February, I saw large flocks of Starling congregating every evening about sunset and flying S. The same thing occurred from 2d to 9th March. October 15th,

numbers about light, 8 P.M. to 11 P.M.; hazy, wind light N.E.; one caught; 17th, three struck; wind light S.E., gloomy; 24th, numbers all night around lantern; wind fresh, clear. November 11th, one struck, 11 P.M.; gloomy; 13th, one found dead. [Leg and wing received.]

*Old Head, Kinsale.*—March 4th, flocks alighted. October 4th, flocks flying N.; 25th, several flying N.

*Mine Head.*—March 1st, 2d, and 3d, striking occasionally at night; fine; wind S. and S.E.; flocks in the fields. October 22d and 23d, a few striking; 25th, great flocks in fields. November 10th and 11th, about lantern all night. Plentiful to end of January 1888.

*Coningbeg Light-ship.*—March 19th, flocks about lantern, 9 P.M. to midnight; gloomy, wind light E.; twelve killed striking. [Leg and wing received.] 20th, flocks about light, midnight to 4 A.M.; snow showers, wind light N.E.; nine killed striking. [Leg and wing received.] 26th, some about lantern 8 to 9 P.M.; clear, wind fresh W. October 19th, one; 21st, several about light, 6 P.M. to midnight; many killed striking, dropped into the sea; 22d, do., from 9 P.M. to midnight; 23d, do., midnight to 6 A.M.; wind light, overcast each day; 25th, flock going N. November 4th, one about ship; 6th, "hundreds of birds of various kinds, 5 to 9 P.M., about light; dozens killed and wounded; lots fell overboard"—[Perhaps some were Starling.—R. M. B.]—hazy, with rain. 7th, Starling about light, 7 to 10 P.M.; showers, wind fresh. November 8th, flock going N.E., and several about ship, 8 to 4 P.M.; 10th, flocks going N.W., 10.30 A.M.; wind N.W., clear; several about lantern at night; 11th, two about ship; one killed at night; numbers of birds killed striking, and fell overboard; 13th, about light; gloomy, wind S.E.; several killed; 14th, about lantern, several killed; 15th, do.; on 11th, 13th, 14th, and 15th, numbers of birds about ship, mostly Blackbirds, Thrushes, and Starlings. December 23d, several about light, midnight to 4 A.M.; wind fresh N.W., showery.

*Barrels Rock Light-ship.*—On night of March 1st, from 8 P.M. to 2 A.M., and on 2d from 9 P.M. to 1 A.M., flocks passing to S.E.; 9th, flocks going S., 7.30 to 9 P.M.; wind light, clear; 22d, a few going S. at noon; wind fresh W., clear. October 15th and 16th, two flocks going N.; 20th, three; 21st, small flocks, 9 P.M. to

midnight, going N.; 22d, do., at 3 A.M.; 25th, small flocks, 9 to 10 P.M., going N. November 8th, flocks going N., 8 P.M. to midnight; 9th, do., midnight to 3 A.M.; do., 8 to 11 P.M.; 10th, do., 7.30 P.M.; 11th, do., 7 P.M.; 12th, midnight to 5 A.M., and 8 P.M. to midnight; 13th, midnight to 4 A.M., and a few about lantern all night. In every case during October and November going N., wind generally E.

*Tuskar*.—February 19th, numbers at lantern all night; very clear, wind fresh W. March 2d, fourteen on balcony, 10 P.M. to 4 A.M.; three killed striking; wind light N., calm, hazy; 3d, an immense number about lantern all night; calm, hazy; ten killed striking; 7th, five about lantern; 10th, ten at 10 P.M.; one killed striking; calm, clear; 11th, some at lantern all night; two killed striking; wind fresh S., hazy; 14th, ten at lantern; two killed striking; wind N.W., clear; 20th, a great rush—about one hundred at lantern all night; twenty killed striking; hazy, wind S.E.; 25th, three at lantern; one killed striking; wind N.W., clear. October 6th, one on rock; 12th, thirty going N.W.; gale from N.; 16th, numbers from midnight to sunrise; first rush this winter; twelve killed striking. [Leg and wing received.] 20th and 21st, numbers about lantern; five killed striking; clear; 23d and 25th, small flocks at intervals going towards land; wind S.W. and N.E. November 5th, 7th, 8th, 13th, and 20th, a few at lantern; 3d, 6th, and 9th, several do.; 4th, 10th, 11th, 12th, and 14th, countless numbers at lantern. (See under Blackbird, the general remarks concerning which are also applicable to Starling during November at this station.) December 26th and 31st, one noted.

*Lucifer Shoals Light-ship*.—October 16th, at lantern all night; several killed striking; flocks in daytime going N.W.; 26th, one at lantern; 28th, flock going N.W. November 24th, several at lantern, 4.30 A.M.; wind N.W., clear.

*Arklow South Light-ship*.—February 28th, flock going N.E., 6 P.M. March 2d and 3d, about lantern, midnight to 4 A.M.; two killed striking; cloudy. October 21st, about lantern, 12 to 3 A.M.; one killed striking; gloomy: also, 10 P.M. to 7 A.M. on 22d, about lantern; cloudy; some killed; 25th, one; 26th, some at lantern, 3 to 4 A.M.; gloomy; wind S.W., strong. November 6th and 9th, one on ship; 10th, one caught; 11th, several about lantern; gloomy; 13th, several at lantern, 8 P.M.

to midnight; wind N., cloudy; 14th, one caught; 19th and 20th, a flock going N.W. December 10th, one killed striking. [Leg and wing received.]

*Arklow N. Light-ship*.—February 7th, quantity of land birds about lantern; two "Stares;" gale, wind S.W.; 19th, quantity of birds, midnight, about lantern; two "Stares" killed. March 7th, small birds, midnight, about lantern; two "Stares" killed; 18th, great number of "Stares" about lantern, midnight to 4 A.M.; 19th and 21st, one or two killed. September 22d, a number all night. October 16th, 18th, 20th, and 30th, flocks at midnight; three killed striking on 18th; flocks on 17th and 22d, at noon, going N.W. November 10th, about lantern; two killed; clear. December 7th, 13th, 14th, 15th, 21st, and 28th, "Stares" about lantern; 8th and 12th, flocks at noon going N.W.

*Rockabill*.—January 3d and February 10th, about rock; wind S. and N.E., strong; 16th, about light, 1 A.M.; wind light S., misty; 19th, thirty going W., 8 A.M. November 10th, "the greatest number of birds came this year; since I arrived every day they are passing in flocks from two to three up to a hundred; Starlings, Chaffinches, Greenfinches, are the most numerous, and some Blackbirds, all flying W."

*South Maidens*.—October 13th, one killed striking; wind strong N. November 1st, five on rock. December 11th, two seen.

*Innishtrahull*.—March 19th, numbers at lantern, 10 P.M. to midnight; wind light N.W., very dark; 20th, do., midnight to 4 A.M.; wind fresh S.E.; 28th, one at lantern all night. November 10th, one striking, 11 P.M.; wind fresh E., dark; 13th, twenty on island. December 8th, four.

*Dunree Head*.—November 10th, one disabled striking.

*Tory Island*.—October 16th to 20th, large numbers; twelve killed striking. [Leg and wing received, killed on 16th.]

*Arranmore*.—October 14th, nine caught at lantern. November 3d, three at lantern, 4 A.M.

*Rathlin O' Birne*.—October 31st, thirty came from shore; gale from S.; six killed (striking?). Never observed before without frost or snow.

*Killybegs*.—October 20th, continuous flock about lantern until 5.30 A.M.; wind light N.E. November 7th, five noted; 9th, two flocks, and some about station at intervals to end of month;

16th, one struck lantern, 11 P.M.; 18th, about 500 in daytime; 26th, one struck lantern, 4 A.M.; several in daytime.

*Broadhaven.*—November 11th, Starling very numerous.

*Blackrock, Mayo.*—October 21st, seven during day on rock; wind fresh S.E. November 8th, a flock; wind strong N.E.; 9th, about fifty on rock; wind fresh N.E.; 10th, several about lantern at night; one caught; wind N.E., light, gloomy; 12th, one at lantern, 10 P.M.; 16th, about sixty at 9 A.M. going W., flying low near water; wind fresh S.W.; 21st, large flock about rock; wind S.E., fresh.

*Slyne Head, S.*—October 17th, about twenty on island; 21st, at lantern all night; wind light S.E. November 12th, one killed striking; numbers of "birds" [Starling?] about lantern on nights of 12th and 13th.

*Arran Island, N.*—November 24th, a flock.

*Arran Island, S.*—October 23d, one killed striking, 4 A.M.; wind light N.E. First this year [winter?]. November 1st, great flocks on island.

*Tearaght.*—March 26th, Starlings and Thrushes which were here during winter months left on this date. October 23d, one hundred going S.E.; wind light S.; 31st, one hundred going S.E.; a gale from S.W. November 7th, fifty going S.; wind fresh N.

*Skelligs.*—October 19th, four all day. November 10th, flock of two hundred at 8 A.M.; wind light S.E., misty; 29th, small flock; wind strong N. December 22d and 29th, flocks.

#### CHOUGH (*Pyrrhocorax graculus*, Linn.).

*Old Head, Kinsale.*—November 10th, two going N. December 10th, some seen. They breed here.

*Mine Head.*—October 20th, twenty to thirty.

*Arranmore.*—A pair always here. Breed.

*Arran Island, N.*—October 4th, four.

*Arran Island, S.*—October 11th, eight Choughs. Remain here.

*Tearaght.*—October 11th, thirty-five at 9 A.M., rested on island for a time; wind fresh N.W.

*Skelligs.*—January 20th to 26th, two. February 9th and 10th, two; breed here. September 23d, two. October 8th, two. November 7th, four.

RAVEN (*Corvus corax*, Linn.).

*Old Head, Kinsale.*—November 7th, two going N.; 24th, two; they breed here.

*Mine Head.*—February 21st, two seen; did not breed here this year.

*Dunree Head.*—Two to four noted January 25th; March 9th, 15th, and 23d; April 16th, 18th, 25th; and June 10th; also August 28th and October 7th.

*Arranmore.*—May 9th, two. A pair always remain and breed.

*Broadhaven.*—November 23d, two. It is resident.

*Slyne Head, S.*—October 7th, three, and at intervals in August and September.

*Tearaght.*—September 10th, nine at 7 A.M., rested on island; 12th, two.

*Skelligs.*—January 10th, two; 20th to 26th, four. March 4th, two. September 23d, two. October 1st, two.

HOODED CROW (*Corvus cornix*, Linn.).

*Fastnet.*—March 5th, two "Carrion Crows" at 8 A.M. about rock; flew to shore; wind light S.E., hazy; 9th, two "Grey-backed Crows;" wind light S.E. (These are constant visitors from Cape Clear for the past two days.) 16th, one "Carrion Crow" on rock; 20th, fourteen "Carrion Crows" on rock; wind light S.E.; left 11 A.M. April 14th, two; 29th, two.

*Innishtrahull.*—July 14th, two "Crows" on island. "Carrion Crows" are rare visitors. 21st, two.

*Tory Island.*—April 10th, two "Carrion Crows" about island. August 17th, five Hooded Crows at 10 A.M.

*Arranmore.*—A pair always here. Breed.

*Rathlin O' Birne.*—Grey Crows breed here.

*Blackrock, Mayo.*—April 11th, one on rock; wind light S.E.; 26th, one. November 21st, one.

*Arran Island, N.*—October 1st, two seen.

*Arran Island, S.*—October 7th, two "Carrion Crows;" seldom seen; 24th, three.

*Tearaght.*—April 3d, several about island.

*Skelligs.*—January 10th, four. February 9th and 10th, two. They breed here. March, 4th, four. September 30th, two. October 7th, ten; wind light N.E. November 7th, two; 15th, five. December 23d, four.

ROOK (*Corvus frugilegus*, Linn.).

*Fastnet*.—November 8th, one on rock; hazy; seemed exhausted; wind strong S.E.

*Old Head, Kinsale*.—October 5th, great number flying E. November 3d, flocks going W. December 8th, 27th, 29th, several flocks.

*Coningbeg Light-ship*.—March 7th, two "Crows" going S.E.; clear, wind fresh S.E. November 18th, one going N.E., 11 A.M.; wind fresh W., clear; 24th, flock going N., 10 A.M.; wind light N.W., clear.

*Tuskar*.—March 16th, two going N.W.; wind strong N.E. November 10th, one on rock; wind fresh N.E.; 25th, one on rock; 27th, one.

*Arklow South Light-ship*.—March 25th, flock flying W., 7 A.M.; wind fresh N.W., clear. April 22d, two; wind light, clear.

*Arklow North Light-ship*.—February 18th, one going N.W. March 29th, two going N.W.

*Rockabill*.—January 10th, five going N.; clear.

*Dunree Head*.—November 29th, ten "Crows" noted.

*Tory Island*.—March 11th, five going S.W. April 5th and July 20th, seven to nine about island.

*Rathlin O' Birne*.—July 10th, two or three hundred "Crows" going W.; wind light W., misty. "Immense flocks" going W. until 10 A.M. 18th, two or three hundred on island.

*Broadhaven*.—November 7th, five hundred Rooks resident.

*Blackrock, Mayo*.—October 21st, two Rooks on rock; wind strong S.E.

*Slyne Head, S.*—October 20th, twenty going S.; 27th, two seen. November 4th to 13th, several; on 7th, about two hundred, with Jackdaws, about island.

*Tearaght*.—September 1st, three going E. October 21st, fifty going E.; 23d, about one hundred and fifty going E.; wind light S.; 24th, three hundred do.; wind strong N. November 8th, thirty; 9th, sixty; 11th, several; 15th, two hundred; 22d, eighteen; 23d, seventy; all going E. in November. One shot on November 9th. [Received in flesh—a young Rook.]

*Skelligs*.—November 5th, one on island; 9th, flocks, 12.30 P.M. to 4 P.M., going N.E.; wind light S.E. These Rooks seem



to have flown a long distance as they were apparently very tired. There were about one hundred in the first flock, and eighty in the second. They came from the westward. The second flock rested about ten minutes on island. 12th, sixteen; 18th, fourteen. [A somewhat similar flight of Rooks, from W. to E., occurred at the Tearaght and Skelligs in 1884.—See Migration Report for that year. The question is, where were they coming from? There is no land to W. of Skelligs. The Tearaght is 20 miles N. of Skelligs, and both about 9 miles from shore.]

JACKDAW (*Corvus monedula*, Linn.).

*Tuskar*.—March 9th, two at noon; wind light S.

*Rathlin O' Birne*.—June 22d, two came from shore. November 16th, five do.

*Slyne Head, S*.—October 19th, two on island, and see under Rook for this station.

*Arran Island, N*.—November 3d, five.

*Tearaght*.—October 25th, one on island.

MAGPIE (*Pica rustica*, Scop.).

*Dunree Head*.—February 27th, April 8th, two to five noted.

*Broadhaven*.—December 26th, one in vicinity.

*Slyne Head, S*.—November 10th to 13th, one or two on island.

*Arran Island, S*.—November 1st and 15th, one seen.

*Tearaght*.—November 11th, two going E.; wind N.E., light.

SWALLOW (*Hirundo rustica*, Linn.).

*Fastnet*.—October 5th, several young ones about light, 7 to 11 P.M.; one caught. [Leg and wing received.] Wind light S.E., gloomy; 10th, four about rock all day; wind light N.E., clear. October 20th, one on rock; seemed exhausted; wind light W., clear.

*Old Head, Kinsale*.—June 18th, three going S.; 30th, six.

*Mine Head*.—April 17th, first seen this year: left about October 9th.

*Hook Tower*.—A total absence of Swallows here this summer.

*Coningbeg Light-ship*.—March 30th, two "Swallows" flying N., 11.30 A.M.; clear, wind light N.E. May 4th, two alighted on

ship; clear and calm; one found dead. [Leg and wing received.] 6th, flocks flying N.W. at 5 A.M.; clear, wind light S.E.; 13th, one; 28th, one about ship. Swallow noted on June 5th, 19th, and 22d. September 17th, flocks flying N.E.; wind N.E., fresh, clear; 18th, 19th, and 21st, two to five seen. October 18th, one about ship, 11 A.M.; wind light E.

*Barrels Rock Light-ship*.—Swallow entered on April 9th, 30th; May 2d, 9th, 12th, and 30th; June 14th and 15th; one to four each day; all going N. October 16th, two about ship; wind N.E., light, clear.

*Tuskar*.—April 25th, two all day on rock; first seen this year; gale from S.W. September 19th, 20th, and 21st, several all day about rock; wind E. October 6th, one all day; 9th, one flying about; 17th and 18th, two about rock all day; clear.

*Lucifer Shoals Light-ship*.—October 7th, flock going E.; 17th, flocks going N.W.; clear; 19th, two about ship; one fell in water.

*Arklow South Light-ship*.—April 10th and 22d, two going N.W. May 22d, six going N.W. September 15th and 16th, one to four going N.W.; 20th, 21st, flocks noticed; hazy.

*Arklow North Light-ship*.—September 12th, flocks going E. at noon; wind fresh N.W.

*Dunree Head*.—May 6th, one; first seen this year; 24th, six; 28th, great numbers, 10 A.M., going N.W.; wind W., fresh. August 8th, four. Leave here this month.

*Arranmore*.—May 4th, 30th, and June 17th, one to two.

*Rathlin O' Birne*.—April 10th, seven going N.W.; the first seen this year; wind light S.E.; 17th, five on island; 19th, four do.; all left but three on this date.

*Killybegs*.—April 3d, six seen; 16th, several; also noted May 2d, 10th, and June 8th.

*Broadhaven*.—July 3d, three.

*Blackrock, Mayo*.—May 9th, one about rock.

*Slyne Head, S*.—October 15th, two "House Martin Swallows" fly about island; wind light N.E. November 13th, one "Sand Martin Swallow" seen; seemed tired; wind light S.E.

*Arran Island, N*.—May 4th and 10th, two to four.

*Tearaght*.—June 1st, one going N.

*Skelligs*.—October 7th, large flock about all day; wind light N.E. October 24th, four all day; wind light S.E.

SAND MARTIN (*Cotile riparia*, Linn.).

*Blackrock, Mayo.*—March 30th, one about rock; wind light S.W.

SWIFT (*Cypselus apus*, Linn.).

*Coningbeg Light-ship.*—June 7th, two “Black Martins” flying W.

*Tuskar.*—May 22d, one found dead; wind light N., clear. [Leg and wing received.]

*Innishtrahull.*—May 5th, 6th, 10th, 26th, and July 2d, one to two noted about island.

*Arranmore.*—June 17th, two Swifts.

NIGHTJAR (*Caprimulgus europæus*, Linn.).

*Mine Head.*—July 1st, seen and heard at 11 P.M.

CUCKOO (*Cuculus canorus*, Linn.).

*Fastnet.*—May 3d, one Cuckoo on rock; wind light N.E. Left for Cape Clear.

*Dunree Head.*—One to three noted May 7th, 14th, 30th, June 5th, 24th, 30th, and July 8th, in all cases but one going E. or S.E. First seen May 7th. Left in July.

*Skelligs.*—April 19th, one Cuckoo seen on rock.

HOOPOE (*Upupa epops*, Linn.).

*Eagle Island, E.*—April 12th, shot a bird; I do not remember ever having seen one like it before. [Hoopoe received in flesh.—R. M. B.]

## “WOODPECKER.”

*Blackrock, Mayo.*—November 20th, “I saw this morning a sort of ‘woodpecker.’ It had a peculiar rising on the upper part of its beak, and was the size of a female Chaffinch.” [What was this bird?] Wind fresh S.W.

## “PIGEONS.”

*Mine Head.*—March 14th, one “strange Pigeon.” Rock Pigeons breed in caves near. October 16th, thirty to forty in flock.

*Tuskar*.—March 14th, one "Dove" on lantern, 10 P.M.; wind strong N.W., clear. October 19th, one pigeon shot. [Leg and wing of Rock Pigeon received.]

*Innishtrahull*.—May 26th, three young Pigeons about island. They breed in caves near lighthouse.

*Dunree Head*.—March 30th and April 3d, two to six noted; August 7th, a flock going E. September 4th, eight; 27th, six.

*Tory Island*.—June 25th, ten to twenty Pigeons remain here. July 22d, flocks of Rock Pigeon. September 3d, ten to twenty Pigeons.

*Arranmore*.—March 26th, fourteen Pigeons noted. December 23d, a flock seen. Remain all winter.

*Killybegs*.—October 1st, ten Wood Pigeons; 11th, eight Wild Pigeons.

*Slyne Head, S*.—March 7th, seven Pigeons going W.

*Arran Island, N*.—May 20th, two.

#### TURTLE DOVE (*Turtur communis*, Selby).

*Blackrock, Mayo*.—June 27th, one shot on rock; wind light. [Head, wing, and leg received.]

#### CORNCRAKE (*Crex pratensis*, Bechst.).

*Mine Head*.—May 1st, one found dead. [Leg and wing received.]

*Tuskar*.—April 25th, one killed striking N.E. side of lantern; wind strong W., clear.

*Rockabill*.—October 3d. (See under Skylark.)

*Innishtrahull*.—June 28th and 30th, one heard on island.

*Tory Island*.—August 10th, one heard.

*Skelligs*.—June 16th, one found dead. [Leg and wing received.]

#### SPOTTED CRAKE (*Porzana maruetta*, Leach).

*Tearaght*.—August 21st, one caught, 11 A.M.; wind fresh S.E. [Skin received.]

#### WATER RAIL (*Rallus aquaticus*, Linn.).

*Fastnet*.—September 24th, one in coal-house, 9 A.M.; it escaped and flew towards land.

*Hook Tower*.—November 8th, one killed striking. [Received in flesh.]

*Coningbeg Light-ship*.—November 6th, “a strange bird killed against lantern; never saw same kind before.” [Received a Water Rail in flesh.]

*Tuskar*.—November 14th, one found dead on rock, 8 A.M.; wind fresh N. [Leg and wing received.]

*Rockabill*.—November 10th, one killed striking. [Received in flesh.]

*Innishtrahull*.—November 12th, one killed striking, 4 A.M.; calm, dark. [Leg and wing received.]

*Tory Island*.—November 16th, one caught; wind strong W. [Received in flesh.] December 3d, one killed striking, 6 P.M.; wind strong N.W.

*Tearaght*.—November 19th, one shot. [Received in flesh.]

#### WATER HEN (*Gallinula chloropus*, Linn.).

*Arranmore*.—November 7th, one near station, 7 A.M.; stormy, wind N.E.

#### BALD COOT (*Fulica atra*, Linn.).

*Arklow South Light-ship*.—September 22d, one “Water Hen” killed striking, 1 A.M.; wind light, overcast. [Leg and wing of Bald Coot received.]

#### “RINGED DOTTEREL.”

*Coningbeg Light-ship*.—October 17th, three going N.E.; clear.

#### GOLDEN PLOVER (*Charadrius plumialis*, Linn.).

*Mine Head*.—February 10th, passing at 9 P.M.; 17th, large flock.

*Howth Baily*.—December 21st, Golden Plover in neighbourhood.

*Tory Island*.—March 12th, “six Grey Plover” about island. August 30th, nine “Golden Plover” all day. November 5th, some about island.

*Arranmore*.—“Grey Plover,” remain all winter.

*Killybegs*.—October 14th, sixteen “Grey Plover.” November 18th to 23d, a few Golden Plover noted.

*Broadhaven*.—November 20th, a flock ; numerous this season.

*Blackrock, Mayo*.—April 14th, about sixty seen.

*Slyne Head, S.*—October 7th, about thirty “Grey Plover” going S. December 22d, one Golden Plover found on dome of lighthouse.

GREEN PLOVER (*Vanellus vulgaris*, Bechst.).

*Fastnet*.—March 5th, one “Lapwing Plover” about rock, 4 P.M.; foggy, wind light S.E. March 13th, Golden and Green Plover very scarce on shore; a very mild winter. April 10th, one going N.; wind fresh S.E.

*Old Head, Kinsale*.—October 10th, four going W. December 20th to 23d, some seen going N.W.

*Mine Head*.—February 10th, passing at 10 P.M.; wind W., frosty.

*Coningbeg Light-ship*.—March 7th, a flock going N.E.; clear, wind fresh S.E.; 20th, flock about light, midnight to 4 A.M.; snow showers, wind light N.E.

*Barrels Rock Light-ship*.—March 11th, twelve Green Plover going N., 6 P.M.; wind W., fresh. July 27th, flock of “Plover” flying N.E.; wind W., fresh.

*Tuskar*.—March 3d, five on rock all day; shot four; wind fresh E., cloudy; 6th, five went N.W.; wind light E., cloudy; one found dead; 7th, one on rock; 8th, six went N.W.; 10th, four; shot two.

*Arklow South Light-ship*.—February 17th, six “Plover” going S.W.; misty. March 18th, three do. about ship, 2 A.M.; overcast.

*Howth Baily*.—December 21st, 22d, 23d, Green Plover in neighbourhood.

*Rockabill*.—February 16th, Lapwing about light, 1 A.M.; one killed striking; wind light S., misty. [Leg and wing received.]

*South Rock Light-ship*.—December 10th, two about light, 7.30 P.M.

*South Maidens*.—October 1st, twelve going N.E.

*Tory Island*.—March 12th, fifteen to twenty about island. September 1st, three at 6 P.M. November 5th, some about island.

*Arranmore*.—November 16th, “Plover” on island.

*Rathlin O’Birne*.—December 28th, two on island; seldom seen.

*Killybegs*.—March 29th, four ; will remain to breed. November 23d, four.

*Arran Island, N.*—Four to thirty at intervals in March.

*Skelligs*.—March 4th, four Peewits ; two shot ; 6th, eighteen ; six shot.

OYSTER-CATCHER (*Hæmatopus ostralegus*, Linn.).

*Mine Head*.—September 13th, one on rocks.

*Tuskar*.—March 4th, two all day ; left for shore.

*Innishtrahull*.—December 15th, two Oyster-Catchers on rocks.

*Tory Island*.—March 20th and July 14th, ten to twelve noted.

*Rathlin O' Birne*.—Seapies breed here.

*Killybegs*.—April 20th, four. November 8th, six.

*Broadhaven*.—Oyster-Catchers resident. Noted November 9th and December 11th.

*Slyne Head, S.*—November, Seapies about island.

*Arran Island, N.*—January 26th, February 27th, and April 20th, several noted.

*Arran Island, S.*—October 24th, flocks of Seapies ; shot two.

*Skelligs*.—November 15th, two on island.

WOODCOCK (*Scolopax rusticula*, Linn.).

*Fastnet*.—March 13th, Woodcocks and Snipe very scarce on shore this season. A very mild winter.

*Tuskar*.—November 11th, two Woodcock killed striking ; wind light E., cloudy. [Leg and wing received.] November 12th, one on rock all day ; 13th, two do.

*Tory Island*.—November 15th, one seen.

*Arranmore*.—November 16th, one on island ; 17th, found one dead. January 3d, 1888, one shot.

*Slyne Head, S.*—November 11th, one on island ; also November 13th, December 2d and 28th.

*Arran Island, N.*—December 14th, one seen.

COMMON SNIPE (*Gallinago caelestis*, Frenzel), and  
JACK SNIPE (*G. gallinula*, Linn.).

*Old Head, Kinsale*.—October 7th, one Snipe shot. December 25th, three do.

*Tuskar*.—October 7th, one found dead on rock. [Leg and wing of Jack Snipe received.] November 11th, two—one found killed; wind light E., cloudy. [Leg and wing of Jack Snipe received.] November 12th, one all day on rock; 13th do.; 24th, do.

*Arklow North Light-ship*.—November 10th, one killed striking, 8 P.M.; wind fresh N.E., clear. [Leg and wing of Jack Snipe received.]

*Rockabill*.—October 3d (see under Skylark).

*Tory Island*.—November 5th, numbers about island.

*Arranmore*.—November 16th, Snipe on island.

*Rathlin O' Birne*.—December 1st, eight; one shot.

*Broadhaven*.—October 22d, three noted.

*Slyne Head, S*.—November 12th, two killed striking; 13th, two on island. December 22d, one picked up dead.

*Arran Island, N*.—December 16th, two at 8 A.M.

#### " SAND LARKS."

*Fastnet*.—February 20th, about fifty "Sand Larks" on rock. These birds are regular visitors at intervals. March 5th, large numbers of "Sand Larks" at 10 A.M. feeding on rock; wind light S.E., hazy; 20th, twelve all day; wind light S.E. April 10th, six. October 9th, six on rock; 20th, four; 21st, numbers about light at night; clear. November 17th, numbers about light, 10 P.M. to midnight; hazy. December 5th, eight on rock; 11th, six all day on rock.

*Mine Head*.—February 15th, "Strand Larks," about a dozen on rocks.

*Coningbeg Light-ship*.—October 6th, two "Sandpipers," 9.30 P.M.; one killed striking; wind light N.E., clear; 29th, a "little Stint" about ship.

*Tuskar*.—March 13th, 22d, "Sandpipers" noted; 17th, six "Sea Larks" on rock. October 17th, 18th, and 19th, a few "Sandpipers" on rocks. November 27th, ten "Sand Larks" all day; stormy. December 4th, two "Sandpipers" on rock; 5th, small flock; 28th, six do. on rock.

*Tory Island*.—March 20th and July 18th, flocks of "Sand Larks" about island.

*Rathlin O' Birne*.—"Sand Larks" breed here.

*Eagle Island, W*.—February 5th, several "Sandpipers" on island.

*Slyne Head, S*.—November, "Sand Larks" about island.



REDSHANK (*Totanus calidris*, Linn.).

*Tuskar*.—March 5th, six all day ; left for shore.

*Broadhaven*.—December 9th and 26th, one to three noted.

*Slyne Head, S*.—November, Redshank about island.

*Arran Island, N*.—January 14th and February 8th, twelve on island. November 12th, do.

## “ GREENSHANK.”

May 12th, two “ Greenshanks ” seen.

CURLEW (*Numenius arquata*, Linn.).

*Fastnet*.—March 2d, Curlew heard, 2 A.M. ; seemed a large flock ; wind light S.W., hazy ; 11th, one ; wind S.W., hazy. March 13th, Curlew not so numerous on shore this winter as last.

*Old Head, Kinsale*.—October 9th, five flying W. December 20th to 23d, several.

*Mine Head*.—February 19th, one heard passing. March 9th, heard between 1 and 2 A.M. ; 10th, seven seen ; 11th, heard day and night ; 20th, eight going N.E.

*Coningbeg Light-ship*.—March 11th, flock flying N.E. ; rain, wind fresh ; 20th, flock about light, midnight to 4 A.M. ; snow showers, wind fresh N.E. June 24th, several at 9 P.M. flying N. over ship ; 26th, one ; 27th, two ; 28th, several seen ; clear, wind light S.E. November 12th, several about ship during night ; light N.E., gloomy.

*Tuskar*.—March 3d, four on rock, 10 P.M. ; 10th and 11th, two on rock. August 21st, one. November 26th, two on rock.

*Arklow South Light-ship*.—August 24th, two.

*Arklow North Light-ship*.—March 18th, great quantity about lantern, midnight to 4 A.M. ; wind fresh N.W., snow. October 9th, flocks going N.W., 9 A.M.

*Howth Baily*.—December 21st, large flocks about.

*Dunree Head*.—October 14th, 24th, and November 10th, 16th, five to sixteen noted.

*Tory Island*.—July 10th, flocks about island. September 15th, do.

*Rathlin O' Birne*.—June 30th, twenty-five going W. ; wind light N.E. July 31st, five on island.

*Killybegs.*—Two to eight frequent about station, October and November.

*Broadhaven.*—October 22d, flocks noted.

*Blackrock, Mayo.*—November 1st, one on rock; wind strong S.W.

*Arran Island, N.*—Four to twenty noted, January 9th, February 4th, and April 28th. October 12th, three.

*Skelligs.*—September 23d, one on island.

#### WHIMBREL (*Numenius phaeopus*, Linn.).

*Fastnet.*—April 30th, one going S.E.; wind light S.E. May 3d, one going N.E.; seemed exhausted, as it flew with difficulty; wind light N., clear. November 29th, one shot on shore of mainland. [Whimbrel received in flesh.]

*Mine Head.*—May 13th and 27th, a great noise of "May Fowl or Whimbrel;" lasted 15 minutes; fog.

*Coningbeg Light-ship.*—May 22d, flock flying N., 10.30 P.M.; rain, calm.

*Innishtrahull.*—May 12th, nine "Maybirds" all day on island; wind N.W., gale; 25th, young Curlew all day on island.

*Tory Island.*—May 10th, eight "Whimbrel (Maybirds)" all day about island.

*Arranmore.*—May 19th, two; 27th, one.

*Rathlin O' Birne.*—April 20th, "thirty-four Curlew (Maybirds)" came from shore. Large flocks until May 8th. July 25th, "twenty Whimbrel, or young Curlew," on island; wind light N.W. [If Whimbrel, the date is unusually late.]

*Broadhaven.*—May 17th, "flocks of Whimbrel." Left June 13th.

*Blackrock, Mayo.*—May 12th, "Maybirds" about lantern, 10 P.M.; wind strong N.W.

*Tearaght.*—May 14th, Whimbrel flying N., very high; wind strong N.

#### "TERNs."

*Fastnet.*—December 12th, six "Sea Mews" [Terns?] startled from rock by firing gun cotton.

*Coningbeg Light-ship.*—October 6th, one killed striking. [Leg and wing of Common Tern received.]

*Tuskar.*—August 17th, one "Arctic Tern" at night.

*Innishtrahull*.—July 19th and 20th, one Tern noted.

*Rathlin O'Birne*.—June 2d and 8th, eight to fifteen seen. Breed on island to W. of lighthouse.

“ GULLS.”

*Fastnet*.—January 20th to 28th, large numbers feeding about rock; 24th, two Royal Gulls. [Great Black-backs.—R. M. B.] February 19th, two small Royal Gulls, all day. April 12th, two Royal Gulls, last year's birds; 30th, a small Gull. November 10th, several Gulls about rock; also four “large, light-grey Gulls, not so light as the Iceland Gull; flew very sluggishly;” wind light S.E.; 20th, several flocks of Gulls flying high to N.W.; clear, wind light N.W. December 1st, two Great Black-backed Gulls about rock; 5th, a pet Gull about rock, first time this winter; comes every winter, and is very tame and fed regularly; 6th, several Gulls all day flying N.W.; strong gale from N.W.

*Old Head, Kinsale*.—January 4th, flock flying W. March 12th, great flocks flying E.; 15th and 20th, flocks. April 5th, great numbers on water. May 14th, June 2d and 14th, flocks.

*Mine Head*.—February 14th, Herring Gulls breed. They are here summer and winter. August 30th, two “Royal Gulls.” November 21st, two do. going N.E. December 13th, two. October 13th, great number of Gulls after fish.

*Coningbeg Light-ship*.—June, great flocks of Herring Gulls, old and young; also small “Common Gulls,” and a few Black-backed Gulls, about ship up till 12th; on 29th and 30th, several small Gulls. October, a few Skua Gulls seen passing.

*Barrels Rock Light-ship*.—November 6th, passing all day to W. in twos and threes; wind fresh E.

*Tuskar*.—March 10th, about fifty Sea Gulls; 24th, none seen since 10th. November 12th to 18th, numbers noted. “I have not entered movements of Gulls and Gannets, as they are nearly always about rock fishing, and going in no particular direction.”

*Arklow South Light-ship*.—September 19th, hundreds of small Gulls on water.

*Howth Baily*.—November 2d, large flock going N.W.

*Dunree Head*.—July 27th, numbers of Gulls; a few, August 15th and October 2d.

*Tory Island*.—April 23d, flocks; breeds in thousands at east end of island.

*Arranmore*.—March 20th, two "Royal Gulls."

*Broadhaven*.—November 12th, thirty Great Black-backed Gulls; "Common Gulls" every day.

*Eagle Island, W*.—February 28th, two Royal Gulls.

*Blackrock, Mayo*.—November 8th, one Glaucous Gull at noon, soaring. "I identified in Dublin Museum subsequently." November 11th, large quantity of Kittiwake and Herring Gulls fishing; 14th, one Glaucous Gull; 15th and 16th, very large flocks of Kittiwakes, Herring, and a number of Royal Gulls. December 11th and 24th, do., and one Glaucous Gull on last date. January 6th, 1888, large flocks of Kittiwakes (young, generally), and one Glaucous Gull.

*Slyne Head, S*.—October 13th, numbers of Grey Gulls. November 1st and 2d, Gulls and Kittiwakes going S.W.; 7th, one "Cream-coloured Gull" flying about island. [Probably an Iceland Gull.]

*Tearaght*.—August 23d, Kittiwakes breeding; have all left; a few Herring Gulls all the year round; also a pair of Great Black-backed Gulls. December 12th, large flock of Herring Gull close to island. Among them I saw "four Cream-coloured Gulls," and they seemed large.

*Skelligs*.—January 1st to 9th, Kittiwakes and Herring Gulls fishing; 16th, do., and some Black-backed Gulls. February 1st, 3d, and 4th, Great Black-backs and Herring Gulls; 9th and 10th, several Herring Gulls. March 14th, Kittiwakes first landed, and took possession of the old nests. December 5th, large flock of Kittiwakes about rock; 11th, do. of Herring Gulls.

#### GREAT SHEARWATER (*Puffinus major*, F. Faber).

*Tearaght*.—"On 21st September, observed two birds close to rock; they seemed to me to be the large Shearwater."

#### MANX SHEARWATER (*Puffinus anglorum*, Temminck).

*Mine Head*.—Heard at intervals between May 16th and July 26th.

*Coningbeg Light-ship*.—May 14th, one about lantern, 11 P.M.; gloomy, calm; disabled; 15th, one struck lantern, 10.30 P.M.,

killed—[Leg and wing received]—gloomy, calm. June, quantities passing by ship.

*Barrels Rock Light-ship*.—March 27th, a few all day; the first seen. April 8th, some seen. June 26th and 27th, small flocks all day.

*Howth Baily*.—One killed striking about May 10th. [Received in flesh.]

*Arklow North Light-ship*.—April 6th and 8th, Mackerel Cocks all day about ship; wind fresh E., sleet.

*Arranmore*.—April 9th, thirteen Manx Shearwaters. Great quantities breed in the peat holes about the station.

*Skelligs*.—June 27th, young “night bird” sent. [Received young Manx Shearwater.] June 29th, another sent. [Received.]

#### FORK-TAILED PETREL (*Cymochorea leucorrhea*, Vieill.).

*Blackrock, Mayo*.—September 3d. “Relative to the Fork-tailed Petrel resorting (breeding at) this rock, I think from long observation (over six years) that they do not.” November 12th, four or five Fork-tailed Petrels about rock, 10 A.M.; wind light S.E., gloomy. Never noticed any Petrels in the daytime here before. November 13th, one, 10 A.M.; 15th, one caught in yard, 6 P.M. [Skin and contents of gizzard received.—R. M. B.]

*Tearaght*.—June 21st, found a Fork-tailed Petrel breeding on island. Bird caught on egg and forwarded to Mr A. G. More; egg broken; 23d, found another breeding; egg forwarded. [The bird referred to on 21st June was received by Mr More, and the egg found on 23d was received by R. M. B. Both correctly identified.] Mr Ryan in a letter says:—“Both birds had nice nests made of withered grass; I have seen none since, and think they are very scarce.” Subsequently he writes: “Little nests were formed, but nothing like what land birds make. The little hollow was lined thinly with grass. I often found some of the Stormy Petrels with little nests; but again plenty lay on the bare earth or among loose stone.” [Though I have frequently taken the eggs of the Fork-tailed and Stormy Petrels, no grass was ever found about them. See *Zoologist* 1887, p. 349, as to breeding of Fork-tailed Petrel on Tearaght.—R. M. B.]

STORMY PETREL (*Procellaria pelagica*, Linn.).

*Fastnet*.—September 22d, one about light; wind fresh S.E., gloomy.

*Coningbeg Light-ship*.—June 1st, one to seven about ship on several occasions up to 21st, in the daytime. Fine weather, and wind light throughout. Several seen on 7th. September 21st, some about lantern, 8 P.M. to midnight; wind light E., hazy; one killed striking. [Leg and wing received.] October 27th, one about ship. November 5th, three do.; 13th, five on ship at night; wind light S.E., gloomy.

*Barrels Rock Light-ship*.—November 5th, seven going E.; wind fresh S.W.

*Arklow South Light-ship*.—November 10th, one "Mother Carey Chicken" struck lantern, 9 P.M.; fell on deck; wind light.

*Tory Island*.—July 1st, "large flocks" of Stormy Petrel remain. At the end of June numbers arrive. [They breed on Tory Island.—R. M. B.] September 15th, one killed striking, 11 P.M.; hazy, wind light N. [Leg and wing received.]

*Rathlin O' Birne*.—July 30th, one caught under rock on its egg; they breed here. [Stormy Petrel and its egg received.]

*Blackrock, Mayo*.—April 29th, one at lantern, 1 A.M.; wind fresh N.E. September 3d, "used to breed here in large numbers, but owing to mice, a cat was introduced, and I don't think there are over one dozen Petrels breeding this year. I have often counted twelve pair of Petrel's wings and tails in the morning—killed by the cat. They are easily captured."

*Slyne Head, S.*—October 20th, one killed striking.

*Skelligs*.—September 22d, several at lantern from 10 P.M. to 2 A.M.; two young ones killed striking; wind light S.E., hazy. October 9th, one young bird killed striking, 8 P.M.; 15th, several at lantern, 7 to 11 P.M.; one killed striking (young bird); wind light N.E., gloomy.

RAZORBILL AND GUILLEMOT (*Alca torda*, Linn.; and  
*Uria troile*, Linn.).

*Fastnet*.—January 20th to 28th, large numbers feeding about rock. May 1st, seven. November 10th, "several puffins (?), razorbills, and guillemots" all day about rock; wind light S.E.

*Old Head, Kinsale.*—May 20th, flocks of “loots” [loons?] flying W.

*Mine Head.*—February 14th, young Razorbills (about one hundred) fishing. I believe they are always about here. June 15th, “Razorbill heard on water.” October 13th, great many.

*Coningbeg Light-ship.*—October, Razorbills passing daily.

*Barrels Rock Light-ship.*—March 10th, flock going E., 4 P.M. June 28th, small flocks of “Murs” going N.W. all day; clear. July 3d and 9th, several with young ones drifting past all day. From 20th to August 1st, number of “Murs” with young passing.

*Tuskar.*—March 23d, five Razorbills.

*Innishtrahull.*—May 12th to 22d, numbers of Razorbills.

*Arranmore.*—April 11th and 14th, some Razorbills and Guillemots.

*Eagle Island, W.*—February 7th, small flock of “Puffins.” [Probably Razorbills.]

*Tearaght.*—January 28th, several Guillemots seen about island. February 6th, on rocks for the first time. March 3d, Razorbills arrived. August 5th, Guillemots and Razorbills have all left.

*Skelligs.*—January 1st to 9th, some young Razorbills and Guillemots fishing. February 11th, Guillemot first landed for the year; left at 8 A.M.; 15th to 26th, the Guillemots come in the early morning and leave after a few hours. March 10th, Razorbill first landed on rock.

#### PUFFIN (*Fraterecula arctica*, Linn.).

*Fastnet.*—January 20th to 28th, large numbers feeding about rock.—[? R. M. B.] (See under Razorbill, November 10th.)

*Old Head, Kinsale.*—March 25th, great numbers of Puffins on water. April 7th, large number.

*Coningbeg Light-ship.*—June 9th to 12th, great flocks of “Puffins” during day about ship; clear, wind light. “The Puffins seen passing appeared to be four kinds of birds”!

*Barrels Rock Light-ship.*—March 29th, a few “Sea Parrots” drifting by all day. April 8th, some “Parrots” seen; 21st, several “Parrots” drifting past slowly. June 27th, small flocks all day. July 20th to August 1st, some drifting past.

*Tuskar.*—March 9th, four “Puffins” going S.W.; 12th, three.

*Innishtrahull.*—April 17th, “Puffins heard in the distance,” 6.30 P.M.; calm. May 12th to 22d, numbers through the day.

*Dunree Head.*—July 18th, flocks of Puffins seen.

*Tory Island.*—May 2d, “Puffins and Sea Parrots” remain to breed.

*Arranmore.*—October 17th, a “Sea Parrot” (? Puffin) off the head, fishing.

*Rathlin O’Birne.*—May 5th, twenty. These birds more plentiful on island this year than formerly.

*Blackrock, Mayo.*—April 4th, one Puffin, the first seen; wind strong W.N.W.

*Slyne Head, S.*—March 29th, flocks all day going N. October 21st, flocks of Puffins passing S.; 28th, numbers do. November 1st and 2d, do.

*Arran Island, N.*—April 6th, flocks going N. all day; wind light N.E. In June large number in vicinity. December, “Puffins” every day.

*Tearaght.*—March 26th, Puffins arrived in great numbers. August 16th, all have left.

*Skelligs.*—March 24th, Puffins first landed on rock. November 15th, one “Puffin” at 2 P.M. close to rock; wind light S.E.

#### “GREAT NORTHERN DIVER.”

*Arranmore.*—April 10th, one at 8 P.M.; wind light N.E.

*Broadhaven.*—November 20th, three noted. [It is entered among the residents; no doubt an error.]

CORMORANT AND SHAG (*Phalacrocorax carbo*, Linn.; and *P. graculus*, Linn.).

*Fastnet.*—January 24th, two Brown and four Green “Cormorants” all day fishing. February 19th, two Brown Cormorants on Little Fastnet. It is only occasionally these birds come to this rock to feed. April 12th, two Green-Crested Cormorants fishing; 14th and 29th, one; 30th, three. May 2d, eleven fishing. November 10th, three “large Cormorants” about rock; 13th, “one large White-breasted Cormorant” fishing; wind light S.E.; 20th, four Cormorants fishing. December 4th to 11th, two to four. On 10th a “White-breasted Cormorant—very large bird”—on top of rock; wind very light, clear.

*Mine Head.*—February 14th, Cormorants always plentiful. Breed half-mile E. of lighthouse.



*Coningbeg Light-ship*.—One or two at intervals in June about ship. November 2d, three seen.

*Barrels Rock Light-ship*.—July 29th, three going W. November 3d, 4th, and 5th, three to six going E.

*Tuskar*.—November 8th, 10th, and 13th, six to twelve noted.

*Arklow South Light-ship*.—August 24th, one Cormorant about ship.

*Howth Baily*.—October 22d, six going E.

*Dunree Head*.—January 6th, numbers of Cormorants. Noted frequently (about twenty each time) from July to December in all cases, but one going in northerly direction. August 21st, great numbers.

*Tory Island*.—December 20th, about island.

*Broadhaven*.—November 11th, Cormorants numerous. They are resident.

*Slyne Head, S.*—November, about island.

*Arran Island, N.*—January 31st, three; some every day.

*Skelligs*.—September 26th, two.

#### GANNET (*Sula bassana*, Linn.).

*Fastnet*.—March 9th, four going N.W. at 10 A.M. The first seen for some time; wind light S.E.; 16th, two; 20th, four. April 10th, four. May 2d, two; one of them last year's bird. November 10th, four fishing; 17th, eight going N.W.; 20th, several going N.W., flying high; wind light N.W.

*Old Head, Kinsale*.—January 3d, two flocks flying E. February 14th, flock flying E. March 7th, several flocks flying W.; 20th, flocks flying W. May 14th and June 25th, do.

*Mine Head*.—September 15th, one, and occasionally afterwards.

*Coningbeg Light-ship*.—A few passing E. and W. in June. Several about ship in October, November, and December.

*Barrels Rock Light-ship*.—A few noted March 30th, April 13th and 17th; June 19th, one going E., the first young Gannet seen; 21st and July 20th, Gannets seen going W. October 25th, five going E.; 30th, three going E. November 5th, four about ship.

*Tuskar*.—March 11th and 22d, two to three. November 10th, 12th, 14th, 16th, 17th, 18th, and 30th, numbers about rock. See under Gull at this station.

*Lucifer Shoals Light-ship*.—Noted at intervals, October 6th to 19th; general direction of flight N.E.

*Arklow South Light-ship*.—March 30th, April 2d, 10th, and 22d, Gannets noted flying N.E. Gannets noted July 29th, August 25th, and in September, at intervals. Flocks on September 8th, 22d, and October 4th; generally going N.E.

*Arklow North Light-ship*.—February 11th, 15th, March 28th, 31st, April 4th, 6th, and 8th, noted flying N.E. and N.W. September 23d, October 2d, 13th, and 14th, going N.E. and S.W.

*Innishtrahull*.—March 24th and 30th, one to five noted. July 14th, a number.

*Dunree Head*.—July 22d, six seen going N.W.

*Tory Island*.—April 3d and June 5th, a few noted.

*Arranmore*.—October 5th, Gannets passing and re-passing.

*Rathlin O' Birne*.—June 10th, thirty to forty, and large numbers until end of month; more plentiful than usual this year.

*Killybegs*.—Noted two to four, May 20th, 26th, and June 6th.

*Eagle Island, W*.—February 1st and 6th, several seen.

*Blackrock, Mayo*.—From the beginning of February numbers of Gannets passed N., and ceased on or about March 15th. November 13th, two; "very few since October 20th." January 6th, 1888, four.

*Slyne Head, S*.—February, Gannets seen daily. October 11th, 14th, 15th, 17th, and 28th, numbers passing, all going N. November 1st and 2d, numbers going S.W.

*Arran Island, N*.—Gannets seen every day.

*Tearaght*.—February 12th, Gannets about island. March 21st, Gannets going N. for the past fortnight.

*Skelligs*.—February 2d, ten fishing, first seen this year; 10th, Gannets increasing; 12th to 14th, increasing in great numbers; 26th, first seen on the Little Skellig. November 7th, last Gannet seen on the Little Skellig.

#### HERON (*Ardea cinerea*, Linn.).

*Fastnet*.—December 11th, one flying high to N.W.; wind light N.E., clear.

*Mine Head*.—August 20th, one seen. October 5th and 21st, one passing along coast pursued by Gulls. December 14th, one in marsh.

*Tuskar*.—October 18th, one seen on rock ; calm, clear.

*Innishtrahull*.—October 11th and 12th, one on rocks ; a rare visitor ; wind N., stormy ; 31st, one.

*Tory Island*.—August 26th, one ; wind strong S.W. December 20th, Herons seen.

*Arranmore*.—June 9th, two Herons seen.

*Rathlin O' Birne*.—July 1st, two "Cranes ;" first time I saw any on island ; wind light S.E.

*Broadhaven*.—Herons resident ; noted October 7th and December 2d.

*Arran Island, S*.—October 7th, one stayed two days ; seldom seen. November 15th, one.

*Tearaght*.—August 24th, one on island ; wind light S.E. September 13th, two ; 20th, three.

*Skelligs*.—November 8th, one going N.W. ; wind light N.E.

#### " GEESE."

*Fastnet*.—November 12th, one "Barnacle" flying S.W.

*Mine Head*.—March 10th, twenty passing N.E. ; calm. August 14th, about fifty "Wild Geese" passing N.E. ; calm, fine.

*Tuskar*.—September 21st, one Goose seen. November 13th, eleven going N.

*Arklow North Light-ship*.—October 8th, flock going E., noon.

*Howth Baily*.—October 15th, flock of "Wild Ducks or Barnacle" going E. November 20th, do., large flock.

*Innishtrahull*.—March 18th, seven "Wild Geese" on island. December 25th, seven going N.E.

*Tory Island*.—November 15th, nine going S.

*Arranmore*.—March 24th, sixty Barnacle going W. Barnacle left on May 1st. October 15th, in flocks all day on island ; 20th and 21st, flocks going S. ; 23d, large flocks going N. November 5th, passing and repassing. December 13th, flock going S. January 5th, 1888, two "Wild Geese" feeding. "Barnacle remain in flocks here all winter feeding on the green banks of grass and moss in the valleys and on the brows of the cliffs."

*Rathlin O' Birne*.—May 3d, one "Barnacle or Wild Goose" shot, feeding on island. [Leg and wing of White-fronted Goose received.] July 10th, bird I am not certain of shot. This and the bird shot May 3d differ from the Barnacle which

pass here in winter. [Leg and wing of Brent Goose received.]  
November 3d, eighty going S.—first this winter; wind strong S.W.; 9th, three on island, two shot.

*Killybegs.*—October 24th and November 13th, two to three Barnacle.

*Broadhaven.*—October 26th, White-fronted Geese in flocks; remain until April. November 16th, twenty Barnacle; 26th, flock of Brent Geese going S.W.

*Eagle Island, W.*—February 4th and 7th, five to ten Wild Geese.

*Slyne Head, S.*—March 6th, ten Barnacle. December 26th to 29th, a number on island.

*Arran Island, N.*—November 30th and December 18th, a flock of Barnacle.

*Arran Island, S.*—October 10th, eight Wild Geese going S.

#### “SWANS.”

*Broadhaven.*—December 18th, six “White Swans” going S.W.; wind strong N.; “numerous on Corclough Lake.”

#### “DUCKS.”

*Fastnet.*—December 7th, six ducks going S.E.—first seen passing for some time.

*Coningbeg Light-ship.*—November 26th, two Widgeon going W.

*Barrels Rock Light-ship.*—March 15th, flock of Duck going S.E. May 5th, eleven Wild Ducks going N.

*Tuskar.*—October 20th, small flock going E. November 25th, fifteen going S.E. December 15th, ten seen.

*Arklow South Light-ship.*—December 16th, one caught on deck, 4 A.M.; gale S.W., clear.

*Arklow North Light-ship.*—July 2d, flocks of “Wild Duck,” 5 A.M. and 7 A.M.; wind light N., clear. December 3d, flock going N.W.; 24th, six do.

*Rockabill.*—February 8th, ten “Velvet Scoter” going E.; wind fresh S.

*South Maidens.*—November 27th, two “Wild Ducks;” gale from S.W.

*North Maidens.*—November 6th, one Duck killed striking, 9.30 P.M.; wind fresh E., misty. [Leg and wing of Common Scoter received.]

*Dunree Head.*—February 11th, large flock Widgeon going S.E.; seldom seen here.

*Tory Island.*—October 1st, about forty Widgeon about island. November 15th, seven Teal do.

*Arranmore.*—May 12th, two. June 10th, one. January 7th, 1888, two shot.

*Killybegs.*—October 14th, one.

*Broadhaven.*—November 18th, seven. December 26th, flocks going S.

#### BIRDS NOT IDENTIFIED.

*Fastnet.*—April 12th, “one bird, name unknown, on rock; wind light N.W., clear. About the size of a Goldcrest—legs and bill black; back, bluish-grey; breast and under part of body, light yellow.” November 12th, a strange bird larger than a Thrush, 11.30 A.M., on rock; wind light S.E., gloomy. “This bird was formed like a Thrush; dark mottled brown on back; cream colour on breast; light brown wings; dark bill and legs. Never saw one like it before.”

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