



# **Appendix 8C**

## **Breeding Bird Surveys April – September 2018**



Stornoway Wind Farm Ltd

## **Stornoway Wind Farm**

Chapter 8 Ornithology

Appendix 8C. Bird Surveys

April – September 2018



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No.	Details	Date
1	Draft Report s.14	18/02/2018
2	Final Report	18/02/2018

# Executive summary

## Purpose of this report

Stornoway Wind Farm Limited (the Applicant) is proposing to construct and operate a wind farm currently anticipated to comprise up to 35 turbines with a generating capacity in excess of 50MW on the site of the existing consented (but not yet built) Stornoway Wind Farm. The Consented Stornoway Wind Farm gained section 36 consent and planning permission in September 2012 (Stornoway Wind Farm 2012) and in 2015 an application was made to amend this consent with regard to the layout, output and size of the wind turbines, this being granted in spring 2016 (Stornoway Wind Farm Variation 2016). The site of the consented Stornoway Wind Farm 2017 is located to the south west of the town of Stornoway on the Isle of Lewis and centred on National Grid Reference (NGR) E137149, N933373. The current application (Proposed Development) would comprise a revised layout, with turbine tip heights of approximately 156 m (x10 turbines) and 180 m (x25 turbines) and turbine rotor diameters of 136 m and 150 m respectively. Changes to the consented wind farm layout and / or turbine specifications will have implications on the existing assessed ornithological impacts of the wind farm. Furthermore, the status of the baseline bird populations and flight activity patterns will have potentially changed since the original application. Therefore a comprehensive suite of survey work was initiated in October 2017 and is continuing through to September 2019.

This report has been produced for the purpose of presenting the methods used for collecting bird data between April – September 2018 in support of the Ecological Impact Assessment (EcIA) for the Proposed Development and presents the results of bird surveys during this period.

An extensive survey programme covered the period April – September. In summary, the following was undertaken:

- ▶ 54 hours VP survey effort at each VP location (a total of 8 VP locations);
- ▶ 31 days MBS split across four monthly visits April – July;
- ▶ 29 days breeding raptor surveys covering the period April – July;
- ▶ 11 days breeding diver surveys covering May – July;
- ▶ 189 hours targeted hen harrier focal watch surveys, covering six locations that recorded a total of 189 flights;
- ▶ 111 hours targeted red-throated diver focal watch surveys, covering four breeding locations that recorded a total of 165 flights.
- ▶ 18 hours targeted black-throated diver focal watch surveys, covering one breeding location that recorded a total of 9 flights.

Flights were recorded from a total of 19 species and 2 un-identified species groups (diver sp and tern sp) during VP surveys. The five most frequently recorded species were common tern, golden eagle, great skua, hen harrier, and red-throated diver. Bird surveys indicated that twenty key species of conservation concern were breeding or possibly breeding (short-eared owl) within 2km of the Site, of which seven were Wildlife and Countryside Act 1981 (as amended) Schedule 1 species (black-throated diver; golden eagle; greenshank; hen harrier; merlin; red-throated diver and whooper swan). All of the seven qualifying species for the adjacent Lewis Peatlands SPA were recorded breeding within 2 km of the site except golden eagle.



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# 1. Introduction

## 1.1 Background

- 1.1.1 Stornoway Wind Farm Limited is proposing to submit an application under section 36 of the Electricity Act (1989) (as amended) to construct and operate a wind farm currently anticipated to comprise up to 35 turbines with a generating capacity in excess of 50MW on the site of the consented Stornoway Wind Farm Variation 2016. The application for the proposed wind farm scheme is hereafter referred to as the 'Proposed Development'.
- 1.1.2 The consented Stornoway Wind Farm 2012 gained section 36 consent and deemed planning permission in to construct and operate 36 wind turbines. In May 2015, an application was made under the Electricity Act 1989 to amend this consent with regard to the layout, output and size of the wind turbines, with this being granted in spring 2016. Stornoway Wind Farm 2016 currently has a consented maximum generating capacity of 180MW, with each turbine having an output of up to 5MW. A further direction to extend the commencement of development date to 06 September 2020 was granted in June 2017 (Stornoway Wind Farm extension of time 2017).
- 1.1.3 The site of the consented Stornoway Wind Farm 2016 (hereafter referred to as the 'Site') is located to the south west of the town of Stornoway on the Isle of Lewis and centred on National Grid Reference (NGR) E137149, N933373.
- 1.1.4 The Proposed Development would comprise a revised layout, with turbine tip heights of approximately 156 m (x10 turbines) and 180 m (x25 turbines), with turbine rotor diameters of potentially 136 m and 150 m respectively. The proposed blade tip heights and rotor diameters would maximise potential renewable energy generation at the Site.
- 1.1.5 Changes to the consented wind farm layout and / or turbine specifications will have implications on the existing assessed ornithological impacts of the wind farm. Furthermore, the status of the baseline bird populations and flight activity patterns will have potentially changed since the original application. Therefore a comprehensive suite of survey work was initiated in October 2017 and continuing through to September 2019.
- 1.1.6 This report sets out the methods for collecting bird data from April – September 2018 in support of the Ecological Impact Assessment (EiA) for the Proposed Development and presents the results of bird surveys during this period.
- 1.1.7 **Annex A** presents figures of flight activity and breeding locations of non-sensitive species, whilst figures for sensitive species are contained within the **Appendix 8D: Appendix 8D. Annex B** contains scientific names of all species referred to in this report, whilst **Annex C** and **Annex D** presents raw survey and flight data.

## 1.2 Site Description

- 1.2.1 The topography of the Development Site ranges between 50 – 150 m Above Ordnance Datum (AOD), with three hillocks within its northern, central and southern areas. The Development Site is dominated by blanket bog and associated mosses and heather, though there are some areas of woodland present. There are also a large number of water bodies, both standing and flowing, none of which have any conservation designations.
- 1.2.2 Access to the Development Site is via the A859. The A858 runs through the northern part of the Development Site, and partly along the western boundary.

- 1.2.3 Other than the residential area of Stornoway to the east, the area surrounding the Development Site consists predominantly of boggy, undeveloped peatland and is not subject to any environmental designations.
- 1.2.4 To the west of the Development Site is included in the Lewis Peatlands RAMSAR Site, Special Protection Area (SPA) and Special Area of Conservation (SAC) primarily on the basis of its blanket bog habitats and breeding bird populations.

## 2. April – September 2018 Bird Survey Methods

- 2.1.1 It should be noted that during the early part of the 2018 breeding season it became apparent that another ornithological survey team (Stagfire) were covering a similar survey area on behalf of other prospective wind farm developers. Throughout the remainder of the survey season, both teams kept in regular contact, sharing key survey data such as nest locations of sensitive species and any relevant updates on nest status in order to ensure that disturbance at key breeding sites was kept to a minimum.

### 2.2 Flight Activity Surveys

- 2.2.1 Vantage Point (VP) watches were undertaken following the standard practices outlined in SNH guidance (2017) covering the period April – September 2018 inclusive. All VP locations were the same as VPs 1 – 8 used in the 2009 breeding surveys carried out in support of the Stornoway Wind Farm 2012 application (**Figure 8C.2.1**). Therefore data collected from the original data collected in 2009 is directly comparable to all eight VP locations used in 2018.

- |                          |                          |
|--------------------------|--------------------------|
| ▶ VP 1 – NB 39378 36606; | ▶ VP 5 – NB 35054 32180; |
| ▶ VP 2 – NB 36132 35739; | ▶ VP 6 – NB 33489 30929; |
| ▶ VP 3 – NB 38260 33600; | ▶ VP 7 – NB 34674 29501; |
| ▶ VP 4 – NB 39860 33719; | ▶ VP 8 – NB 37516 30748. |

- 2.2.2 Following the recommended methodology, the altitude of the birds were recorded at 15 second intervals, and flights were split across four height bands, with Potential Collision Height (PCH) covering bands B and C:

- |                  |                       |
|------------------|-----------------------|
| ▶ A: < 20m;      | ▶ C: 100m – 200m; and |
| ▶ B: 20m – 100m; | ▶ D: 200m >           |

Target species were identified as:

- |                       |                    |
|-----------------------|--------------------|
| ▶ Geese and swans;    | ▶ Peregrine;       |
| ▶ Golden eagle;       | ▶ Short-eared owl; |
| ▶ White-tailed eagle; | ▶ Divers           |
| ▶ Merlin;             | ▶ Waders; and      |
| ▶ Hen harrier;        | ▶ Skuas.           |

- 2.2.3 Given the proximity of the Lewis Peatlands SPA / Ramsar and the large range of target species identified in the area the time spent watching from each vantage point over the course of the breeding season in 2018. Effort was made to ensure that the data was representative and therefore dusk, dawn and daytime watches were all undertaken. A total of 54 hours survey effort at each VP location was completed over the period April - September 2018, with each survey lasting 3 hours. Survey effort, including a summary of weather conditions, is presented in **Table C.1, Annex C**.

## 2.3 Moorland Bird Surveys

- 2.3.1 A Moorland Bird Survey (MBS) based on an adaptation of the Brown & Shepherd (1993) method (as advocated by SNH (2017)) was used to record breeding waders, ground nesting raptors, skuas, gulls, and wildfowl species.
- 2.3.2 This is a generic methodology used to survey breeding upland wading birds, which is commonly adapted to include other moorland species. A constant survey effort was maintained throughout the survey area, with 20-25 minutes spent in each 500 m × 500 m quadrant of open land (or its equivalent). The surveyor followed a predetermined route through the compartments so that all areas were approached to within 100 m or less. The location and activity of all species detected both audibly and visibly were recorded on a 1:10,000 scale field map.
- 2.3.3 Four survey visits were undertaken between April and July 2018, covering the Development Site boundary plus a 500 m buffer (**Figure 8C.2.2**), with at least seven days between visits. In order to ensure that periods of peak detectability for greenshank were covered (Hancock, 1997), the first visit took place between 16th April to 8th May; and the third visit took place from 1st to 23rd June.
- 2.3.4 Visits were undertaken between 08.30 and 18.00 in dry weather and low winds (less than Beaufort 4). Survey details are summarised in **Table 8C.2.1** and full details are presented in **Table C.2, Annex C**. Within each visit, the surveys were completed in as short a time period as possible (between 3 and 6 days for each visit) in an attempt to capture an accurate 'snapshot' of activity and avoid double counting issues that can result from surveys spread over longer time periods.

Table 8C.2.1 Moorland Bird Survey Visit Dates

	Month	Dates	Number of days
<b>Visit 1</b>	April	16 <sup>th</sup> – 21 <sup>st</sup>	7
<b>Visit 2</b>	May	16 <sup>th</sup> – 18 <sup>th</sup>	8
<b>Visit 3</b>	June	4 <sup>th</sup> – 6 <sup>th</sup>	8
<b>Visit 4</b>	July	1 <sup>st</sup> – 5 <sup>th</sup>	8

## Analysis

- 2.3.5 Records from each surveyor were combined into a final map for each species, preventing duplication of the same bird records. In line with standard protocol, and with the exception of great skua and greenshank, birds were assumed to be breeding or holding territory at the recorded location if one or more of the following was recorded:
- ▶ A bird displaying or singing;
  - ▶ Nests, eggs or young;
  - ▶ Adults repeatedly alarm-calling;
  - ▶ Distraction displays;
  - ▶ Territorial disputes; or
  - ▶ A pair of birds in suitable habitat.

- 2.3.6 Other records were considered to be of non-breeding birds.
- 2.3.7 Within a survey visit, duplicate records of birds in open habitats separated by less than a threshold distance of 500 m for waders were, by convention, considered to correspond to birds of the same pair. Those separated by more than this threshold distance were considered to be from different pairs. Exceptions to this were where surveyors recorded birds seen simultaneously within this threshold distance which therefore definitely represented different pairs, or the same bird was observed outside the threshold distance on the same visit. Appropriate annotations were made on field maps to indicate where this was the case.
- 2.3.8 Numbers of territories (representing theoretical breeding pairs) were derived by comparing the four visit maps. Between visits breeding records or territories in open habitats were, by convention, considered to be separate from each other if they were more than 1000 m apart for waders (with the exception of snipe where 500 m is applied). All observations were plotted on a final map and classified as red or green depending on the type of activity described above (see **Section 4** for further description of colour coding conventions used in figures). A nominal boundary to indicate individual territories was also plotted although it is stressed that this was a purely nominal representation of the territory.

## Great Skua

- 2.3.9 Methods to determine population estimate for great skua followed the methods described in Gilbert et al (1998). Visit 2, 3 and 4 of the MBS were used to derive maximum counts of Apparently Occupied Territories (AOT) based on classifying the following activities as confirmation of an AOT:
- ▶ Nest, egg or chicks;
  - ▶ Incubating or brooding adults;
  - ▶ Adults alarm calling or distracting; and
  - ▶ A pair or a single bird in suitable habitat.
- 2.3.10 The breeding population should be reported as the maximum number of AOTs recorded on a single visit.

## Greenshank Analysis

- 2.3.11 Methods to determine population estimates for greenshank followed the methods of Hancock (1997). There are two periods where greenshank are most conspicuous, before egg laying (10th April – 25th May, with a peak period of 15<sup>th</sup> – 18<sup>th</sup> May) and during chick rearing (26th May – 10th July, with a peak period of 1<sup>st</sup> – 23<sup>rd</sup> June). **Table 8C.2.1** presents the survey dates at Stornoway for 2018 from which it can be seen that Visits 1 and 2 fell within the first period and Visit 3 and 4 fell within the second period. In addition, Visit 2 and Visit 3 both fell within the first and second peak detectability periods, respectively. In order to provide as full analysis as possible, data from all four survey visits were included in the analysis. This should therefore act to increase the chances of obtaining a higher population estimate.

## Population Estimate from a Peak Count of Adults

- 2.3.12 Following the methods of Hancock, the highest count of adults from either Visit 1 or 2 of the first survey period or Visit 3 or 4 of the second period was selected and this figure halved to derive a population estimate.

### Population Estimate from a Count of Broods

- 2.3.13 Following the methods of Hancock, any adults encountered alarm calling (chipping) during the second survey period (peak count from Visit 3 or 4) were assumed to be accompanying broods. Unless otherwise indicated, it was assumed that each registration represented a single brood. However, there were four instances where several registrations were in close proximity (within 200 m) or within a discrete area (i.e. bog pool systems) that were considered to be records of a single brood.

## 2.4 Breeding Raptor Surveys

- 2.4.1 SNH guidelines recommend that surveys for breeding raptors follow survey techniques described in Hardey et al (2009), including a requirement that data be collected from within 2 km of the proposed Site and should be focussed on those species as being most likely to occur (in this instance, hen harrier, merlin and short-eared owl).
- 2.4.2 In addition to the MBS surveys, breeding raptor surveys covering all areas within the Site boundary plus a buffer of 2 km (**Figure 8C.2.2**), following recommended survey methods (Hardey et al. 2009), were carried out on the following dates (full survey details are presented in **Table C.2, Annex C**):
- ▶ April: 11th-15th inclusive;
  - ▶ May: 13th-15th and 19th-20th;
  - ▶ June: 20th-22nd, 24th and 26th-27th;
  - ▶ July: 9th, 11th-13th, 15th and 18th.
- 2.4.3 Note that all known raptor nests had either fledged or failed by the end of July, and so no further breeding raptor surveys were undertaken in August.
- 2.4.4 Where signs of raptor activity (e.g. sightings of birds, pellets etc.) were recorded the surveyor spent time scanning the area with binoculars to focus the searches for nest locations. The signs of territory occupation recorded included birds delivering food, calling individuals, territorial defence, resting individuals, nest sites, chicks and eggs. In addition other signs of activity were used to determine the likelihood of an area being occupied; these included prey remains, pellets, feathers and white wash. Information gathered during other surveys (VP surveys, MBS, Breeding Diver) on ground nesting raptor activity was also used to focus the survey effort.
- 2.4.5 Furthermore, the Wood survey team worked closely with the Lewis Raptor Study Group throughout the survey period including sharing information on raptor nest sites. Note that surveys of known historical golden eagle nest sites within 6km of the Site were co-ordinated with the Lewis and Harris Raptor Study Group in order to minimise unnecessary disturbance at the breeding sites.

## 2.5 Breeding Hen Harrier Focal Watch Surveys

- 2.5.1 Where it was either confirmed or considered possible that an active hen harrier nest location was present within the 2 km search area, focal watches took place from suitable locations. These were aimed at understanding the pattern of hen harrier activity in the areas around potential or confirmed nesting locations and were established from the time that breeding in the area was considered probable or an active nest was located until such time that:
- The chicks fledged and were no longer reliant upon the adults for food; or
  - It was confirmed that a territory was not established or the nest failed.

- 2.5.2 Each focal watch followed the same procedure as a standard VP watch (i.e. a 2 km 180° viewshed viewed for a period of three hours) with the exception that only hen harrier activity was recorded.
- 2.5.3 Focal watches were established at seven locations where hen harrier activity indicated a possible breeding attempt or where an active nest was confirmed (see **Appendix 8D: Confidential Appendix** for a brief history of each location). **Table 8C.2.2** provides a summary of survey effort at each of these locations (full details are provided in **Table C.3, Annex C**).

Table 8C.2.2 Hen Harrier Focal Watch Locations and Coverage 2018

Nest ID	Focal watch ID	First Focal Watch observation date	Last Focal Watch Observation date	Total survey time (hours)
1	HH FW1	17/04/2018	04/05/2018	6
2	HH FW2	19/04/2018	21/06/2018	27
3	HH FW3	29/04/2018	15/05/2018	6
4	HH FW4	02/06/2018	14/07/2018	30
5	HH FW5	02/06/2018	06/07/2018	21
6	HH FW6	02/06/2017	14/07/2018	33
7	HH FW7	25/06/2018	15/07/2018	15

- 2.5.4 It soon became apparent that Nests 1 and 3 were not active territories, and watches at these two locations were dropped, hence the low level of survey effort at these locations. No flights were recorded from HH FW1. Activity recorded from HH FW3 appeared to cover nests monitored by HH F4 and HH FW5 and so will be included in the results section. Due to the late data at which Nest 7 was confirmed it was only possible to carry out five focal watch surveys before the chicks had fledged and left the area.

## 2.6 Breeding Diver Surveys

- 2.6.1 Breeding diver surveys followed the standard methodology based on Gilbert et al. (1998). All water bodies within the Site and a 1 km buffer were numbered using the following convention to aid survey management (**Figure 8C.2.3**):
- ▶ All waterbodies greater than 0.5 ha were allocated a unique ID in their own right; and
  - ▶ Smaller waterbodies less than 0.5 ha were buffered by 50 m. If the buffer did not overlap with any other buffered waterbodies, it was given a unique ID. Where the buffers of smaller waterbodies overlapped, the buffers were merged to form a unique ID that represented smaller bog pool systems.
- 2.6.2 Each waterbody was visited twice to check for the presence of red-throated and black-throated divers. The first visit was undertaken to detect occupancy of territories. Waterbodies were only observed at distance, using a telescope on this visit so as to avoid unnecessary disturbance at a sensitive early breeding stage. During the second and third visits waterbodies were observed at distance using a telescope for half an hour initially. All signs of breeding were noted (e.g. nest scrapes, incubating birds, chicks, eggshell fragments). If divers were observed on the water, but not signs of breeding are detected, or if no birds were observed at all then the entire shoreline was

walked, looking for evidence of nest scrapes, hidden chicks, and eggshell fragments. If this also proved inconclusive, the surveyor would observe the lochan from distance for a further hour. Signs of breeding from previous years (such as old nest scrapes or eggshell fragments) were also recorded, to contribute to building a picture of historic use, as divers will not breed every year. Every effort was made to avoid disturbance to breeding birds.

- 2.6.3 All divers (including age and behaviour) and signs (such as nest scrape, eggshell fragments, dead chicks) were recorded on large scale maps. Survey timings and weather conditions were also recorded. Survey details are presented in **Table C.2, Annex C**.
- 2.6.4 Visit dates were:
- ▶ Visit 1: 21st-24th May;
  - ▶ Visit 2: 1st – 9th June;
  - ▶ Visit 3: 24th – 26th June.
- 2.6.5 Where breeding divers were noted as present further checks to determine productivity were undertaken during focal watch surveys targeted at breeding diver lochs.

## 2.7 Breeding Diver Focal Watch Surveys

- 2.7.1 Where divers were confirmed to be breeding, focal watches were undertaken following SNH guidelines to determine the typical flight lines taken by the provisioning adults between the nesting location and feeding areas. These focal watches began or ended at dawn or around dusk to maximise the potential of birds leaving/returning to the breeding site being observed. Each watch lasted for 3 hours and used the same methods as for the vantage point watches (with the exception that only diver activity was recorded formally).
- 2.7.2 Incoming and outgoing flights were recorded during both the incubation and chick-rearing periods, the aim being to record a total of 20-30 incoming and outgoing flights for each breeding location, although it is acknowledged that this may be hampered by pairs failing and activity changing.
- 2.7.3 Focal watches were established at five locations where diver activity indicated a possible breeding attempt or where an active nest was confirmed (see **Appendix 8D: Confidential Appendix** for more detailed information). **Table 2.3** provides a summary of survey effort at each of these locations (full details are provided in **Table C.4, Annex C**).

Table 8C.2.3 Diver Focal Watch Locations and Coverage 2018

	Species	First Focal Watch observation date	Last Focal Watch Observation date	Status	Total survey time (hours)
<b>Diver FW1</b>	Red-throated diver	12/06/2018	16/08/2018	Fledged	27
<b>Diver FW2</b>	Red-throated diver	17/06/2018	22/08/2018	Fledged	39
<b>Diver FW4</b>	Red-throated diver	29/06/2018	15/08/2018	Fledged	18
<b>Diver FW5</b>	Red-throated diver	28/06/2018	15/08/2018	Fledged	27
<b>Diver FW6</b>	Black-throated diver	08/07/2018	24/07/2018	Failed	18



## 3. Flight Activity Results

### 3.1 Vantage Point surveys

3.1.1 A summary of all flight activity recorded from VP surveys is shown in **Table 8C.3.1**. Note this accounts for multiple birds recorded on a single flight line (e.g. four birds recorded for 30 seconds = 120 seconds). The table indicates whether the bird is a qualifying feature of the Lewis and Peatlands SPA, is listed on Annex 1 of the Birds Directive, Schedule 1 of the Wildlife and Countryside Act (as amended) (W.C.A.) or is a species of principal importance on the Scottish Biodiversity list (SBL). The species status on the Birds of Conservation Concern List is displayed as green, amber or red (BoCC) (Eaton et al. 2015). Species have been arranged alphabetically as opposed to taxonomically for convenience.

3.1.2 Species have been arranged alphabetically as opposed to taxonomically for convenience.

Table 8C.3.1 Seconds of Activity by Height Band from VP Flight Data April-September 2018

	Number of flights	Status	Band A (0-20 m)	Band B + C (PCH 20-200 m)	Band D (200 m+)	Proportion of time at PCH %
<b>Arctic skua</b>	1	Scottish Biodiversity List (SBL) BoCC Red List	-	45	-	100
<b>Black-throated diver*</b>	24	Lewis Peatlands SPA / Ramsar W.C.A. Schedule 1 <sup>1</sup> SBL BoCC Amber List	915	2,055	-	69
<b>Black-tailed godwit</b>	1	W.C.A. Schedule 1 SBL BoCC Red List	-	225	-	100
<b>Common tern</b>	60	Annex1 Birds Directive SBL BoCC Amber List	5,325	4,545	-	46
<b>Diver sp.</b>	3		60	236	-	80
<b>Dunlin</b>	6	Lewis Peatlands SPA / Ramsar SBL BoCC Amber List	130	30	-	19
<b>Golden eagle*</b>	57	Lewis Peatlands SPA W.C.A. Schedule 1, 1A and A1 SBL BoCC Green List	1,410	6,270	1,435	69
<b>Golden plover</b>	32	Lewis Peatlands SPA / Ramsar SBL BoCC Green List	832	1,275	-	61
<b>Great skua</b>	280	BoCC Amber List	11,425	15,405	3,870	50
<b>Greenshank*</b>	16	Lewis Peatlands SPA / Ramsar W.C.A. Schedule 1 BoCC Amber List	345	555	-	62

<sup>1</sup> Schedule 1 of the Wildlife and Countryside Act 1981 (as amended) makes it an offence to recklessly or intentionally disturb any Schedule 1 species while they are nest building, or at a nest containing eggs or young, or to disturb the dependant young of such birds. Further protection is given to birds listed on Schedule 1A (it is an offence **at any time** to harass a white-tailed eagle, golden eagle, hen harrier or red kite) and Schedule A1 (it is an offence to damage a nest of a white-tailed eagle or golden eagle)

	Number of flights	Status	Band A (0-20 m)	Band B + C (PCH 20-200 m)	Band D (200 m+)	Proportion of time at PCH %
Greylag goose	56	BoCC Amber List status relates to wintering population	9,570	2,535	150	21
Hen harrier*	132	Annex 1 Birds Directive W.C.A. Schedule 1 and 1A SBL BoCC Red List	12,845	4,010	120	24
Merlin*	25	Lewis Peatlands SPA W.C.A. Schedule 1 SBL BoCC Red List	690	660	-	49
Peregrine	1	Annex 1 Birds Directive W.C.A. Schedule 1 SBL	-	90	-	100
Red-throated diver*	125	Lewis Peatlands SPA / Ramsar W.C.A. Schedule 1 SBL BoCC Green List	2,145	14,310	15	87
Short-eared owl*	5	Annex 1 Birds Directive SBL BoCC Amber List	675	15	-	2
Teal	2	BoCC status relates to wintering population BoCC Amber List	30	45	-	60
Tern sp.	7		300	285	-	49
White-tailed eagle	20	Annex 1 Birds Directive W.C.A. Schedule 1, 1A and A1 SBL BoCC Red List	555	2,310	1,600	52
Whooper swan*	1	Annex 1 Birds Directive W.C.A. Schedule 1 SBL BoCC Amber List	30	-	-	0

\* Figures for these species are provided in the Confidential Appendix.

3.1.3 Flights were recorded from a total of 20 species during VP surveys. The five most frequently recorded species were great skua, hen harrier, red-throated diver, common tern and golden eagle:

- ▶ Common tern were recorded on 60 occasions, with 46 % of those flights at PCH;
- ▶ Golden eagle was recorded in flight on 57 occasions. Time at PCH amounted to 69 % of all flight activity;
- ▶ Great skua was recorded in flight on 280 occasions. Time at PCH amounted to 50 % of all flight activity;
- ▶ Hen harrier was recorded in flight 132 times although only 24 % of those flights were recorded at PCH;
- ▶ One hundred and twenty five red-throated diver flights were recorded during VP surveys, with 87 % occurring at PCH.

3.1.4 A further seven species were recorded in flight more than ten times (black-throated diver, golden plover, greenshank, greylag goose, merlin, pink-footed goose and white-tailed eagle).

- 3.1.5 Figures showing the distribution of flight activity for sensitive species associated with breeding locations (black-throated diver, golden eagle, greenshank, hen harrier, merlin, red-throated diver, short-eared owl, white-tailed eagle and whooper swan) are presented within the **Appendix 8D: Confidential Appendix**. Full details of all flight data are provided in **Table D.1, Annex D**.
- 3.1.6 **Figures 3.1a-f** shows the distribution of flights for less sensitive species where flights numbered more than 10 (common tern, golden plover, great skua, and greylag goose). Flights have not been shown for arctic skua, black-tailed godwit, dunlin, peregrine and teal as these species have less than 10 flights recorded during surveys.
- 3.1.7 Common tern flight activity was focussed along a corridor that followed the River Creed from the breeding colony at Loch a Chlachain (**Loch ID 56 – see Section 4**) down to foraging areas at sea (**Figure 8C.3.1a**). Golden plover were recorded intermittently across the Development Site, and did not follow any real pattern in distribution (**Figure 8C.3.1b**). Great skua activity was focussed in the centre of the Site, and was associated with a breeding colony (**Figure 8C.3.1c**). Greylag goose flights were also located mainly in the centre of the Site (**Figure 8C.3.1d**). White-tailed eagle were recorded intermittently across the central and southern parts of the Site (**Appendix 8D: Confidential Appendix**) with no clear pattern of activity.
- 3.1.8 Final species maps prepared for presentation within this report or Confidential Appendix followed the following conventions:
- ▶ Flight lines split by height band:
    - Green = below 20 m;
    - Red = 20-200 m;
    - Blue = 200 m +.

## 3.2 Focal Watch Surveys

- 3.2.1 Note that figures presenting the distribution of flight activity recorded during focal watches for black-throated diver, hen harrier and red-throated diver are contained within The **Appendix 8D: Confidential Appendix**, whilst a brief summary is presented below.

### Black-throated Diver

- 3.2.2 Flight data recorded from focal watch surveys at the one breeding location within the 1 km survey area showed that the majority of flights occurred to and from other large lochs in the area that formed part of the foraging range of this pair. **Table 8C.3.2** summarises the activity recorded during focal watch surveys (note this accounts for multiple birds recorded on a single flight line (e.g. four birds recorded for 30 seconds = 120 seconds), whilst full details are shown in **Table D.2, Annex D**.

Table 8C.3.2 Black-throated Diver Focal Watch Data April- August 2018

	Total number of flights recorded	Time at height band A (0-20 m)	Time at height Band B (20-100 m)	Time at height Band C (100-200 m)	Time at height band D (200 m+)	Total number flights recorded in/out of breeding loch
Diver FW6	9	495	315	-	-	8

## Hen Harrier

- 3.2.3 Flight data recorded from focal watch surveys showed that the key areas for flight activity during the breeding season in 2018 were close to the five confirmed breeding attempts (see **Appendix 8D: Confidential Appendix**), and particularly intense within 1km around each nest site.
- 3.2.4 **Table 8C.3.3** summarises the activity recorded during focal watch surveys (note this accounts for multiple birds recorded on a single flight line (e.g. four birds recorded for 30 seconds = 120 seconds)), whilst full details are shown in **Table D.3, Annex D**.

Table 8C.3.3 Hen Harrier Focal Watch Data April- July 2018

	Total number of flights recorded	Time at height band A (0-20m)	Time at height Band B (20-100m)	Time at height Band C (100-200m)	Time at height band D (200m+)
HH FW2	29	2,535	935	-	-
HH FW3*	14	780	855	105	-
HH FW4	67	6,195	1,305	345	90
HH FW5	17	1,710	525	90	-
HH FW6	53	3,390	1,035	270	-
HH FW7	9	810	255	180	-
<b>Total</b>	<b>189</b>	<b>15,420</b>	<b>4,910</b>	<b>990</b>	<b>90</b>

\* Flights recorded from HH FW3 appeared to be associated with either of the nests associated with HH FW4 and HH FW5

## Red-throated Diver

- 3.2.5 Flight data recorded from focal watch surveys at the four breeding locations within the 1 km survey area showed that the majority of flights occurred to and from monitored breeding lochs, and certain non-breeding lochs as well as movements of birds towards coastal feeding areas. **Table 8C.3.4** summarises the activity recorded during focal watch surveys (note this accounts for multiple birds recorded on a single flight line (e.g. four birds recorded for 30 seconds = 120 seconds)), whilst full details are shown in **Table D.2, Annex D**.

Table 8C.3.4 Red-throated Diver Focal Watch Data April- August 2018

	<b>Total number of flights recorded</b>	<b>Time at height band A (0-20m)</b>	<b>Time at height Band B (20-100m)</b>	<b>Time at height Band C (100-200m)</b>	<b>Time at height band D (200m+)</b>	<b>Total number flights recorded in/out of breeding loch</b>
<b>Diver FW1</b>	49	960	2,856	735	-	34
<b>Diver FW2</b>	46	900	2,536	985	-	33
<b>Diver FW4</b>	33	1,200	1,920	435	-	34
<b>Diver FW5</b>	37	605	3,125	1,790	15	25
<b>Total</b>	<b>165</b>	<b>3,665</b>	<b>10,437</b>	<b>3,945</b>	<b>15</b>	<b>127</b>



## 4. Breeding Bird Survey Results

- 4.1.1 Analysis for estimating breeding territories first examined data from the species specific surveys (i.e. MBS records for waders; breeding raptor data for breeding raptors etc.) but also considered data collected from other survey types not directly associated with that species to help provide context and consolidate analysis - for example, a breeding diver observation recorded during a breeding raptor walkover survey.
- 4.1.2 Final species maps prepared for presentation within this report or Confidential Appendix followed the following conventions:
- ▶ Species specific survey point data:
    - Red circle with black dot= breeding records;
    - Green circle with black dot = non-breeding records;
    - Labelled with visit date.
  - ▶ Additional point data from other surveys:
    - Red circle = breeding records;
    - Green circle = non-breeding records;
    - Full date of observation.
  - ▶ Non VP flight data (i.e. flights with no height band data recorded):
    - Grey;
    - Full date of observation.
  - ▶ Where relevant (diver species, for example), loch associated with breeding highlighted
- 4.1.3 **Table 8C.4.1** summarises the number of breeding territories for key species of conservation concern. The table indicates whether the bird is a qualifying feature of the Lewis and Peatlands SPA, is listed on Annex 1 of the Birds Directive, Schedule 1 of the Wildlife and Countryside Act (as amended) (W.C.A.) or is a species of principal importance on the Scottish Biodiversity list (SBL). The species status on the Birds of Conservation Concern List is displayed as green, amber or red (BoCC) (Eaton et al. 2015). Species have been arranged alphabetically as opposed to taxonomically for convenience.

Table 8C.4.1 Breeding Territories of Key Species

	Status	Estimated territories within survey area	Estimated territories within Proposed Development Site
<b>Black-throated diver*</b>	Lewis Peatlands SPA / Ramsar W.C.A. Schedule 1 SBL BoCC amber List	2	1
<b>Common sandpiper</b>	BoCC amber List	5	1
<b>Common tern</b>	Annex 1 Bird Directive SBL BoCC amber List	Colony c. 50 pairs	Colony c. 50 pairs

	Status	Estimated territories within survey area	Estimated territories within Proposed Development Site
<b>Dunlin</b>	Lewis Peatlands SPA / Ramsar SBL BoCC amber List	7	5
<b>Golden eagle*</b>	Lewis Peatlands SPA W.C.A Schedule 1, 1A and A1 SBL BoCC Green List	3	0
<b>Golden plover</b>	Lewis Peatlands SPA / Ramsar SBL BoCC Green List	10	4
<b>Great black-backed gull</b>	BoCC amber List	32 AON**	32 AON
<b>Great skua</b>	BoCC amber List	9 AOT**	8 AOT
<b>Greenshank*</b>	Lewis Peatlands SPA / Ramsar W.C.A. Schedule 1 SBL BoCC amber List	3-6	0-2
<b>Greylag goose</b>	BoCC amber List Relates to wintering population	10	5
<b>Hen harrier*</b>	Annex 1 Birds Directive W.C.A. Schedule 1 and 1A SBL BoCC Red List	5	3
<b>Herring gull</b>	SBL BoCC Red List	6 colonies (c. 210 AON)	5 colonies (c. 170 AON)
<b>Lesser black-backed gull</b>	BoCC amber List	63 AON	61 AON
<b>Mallard</b>	BoCC amber List Relates to wintering population	1	1
<b>Merlin*</b>	Lewis Peatlands SPA W.C.A. Schedule 1 SBL BoCC Red List	1	0
<b>Red-throated diver*</b>	Lewis Peatlands SPA / Ramsar W.C.A. Schedule 1 SBL BoCC Green List	4	1
<b>Short-eared owl*</b>	Annex 1 Birds Directive SBL BoCC amber List	1 possible	1 possible
<b>Snipe</b>	BoCC amber List	7	7
<b>White tailed eagle*</b>	Annex 1 Birds Directive W.C.A. Schedule 1, 1A and A1 SBL BoCC Red List	1	0
<b>Whooper swan*</b>	Annex 1 Birds Directive W.C.A. Schedule 1 BoCC amber List	1	1

\* Species specific buffers in parentheses

\*\* AON = apparently occupied nest / AOT = apparently occupied territory

4.1.4 Figures showing the breeding distribution for sensitive species locations (marked \* in Table 4.1) are presented within **Appendix 8D: Confidential Appendix. Figures 8C.4.1a-k** show the distribution of activity for all other species.



## 5. Conclusion

- 5.1.1 Survey results show that 20 species were recorded during VP surveys. The five most frequently recorded species were common tern, golden eagle, great skua, hen harrier and red-throated diver. Flights were recorded from all seven qualifying species from the Lewis Peatlands SPA.
- 5.1.2 Breeding bird surveys indicated that 20 key species of conservation concern were breeding or possibly breeding (short-eared owl) within 2 km of the Site, four of which are red listed BoCC. Seven are included in Schedule 1 of the Wildlife and Countryside Act 1981 Schedule 1 species (black-throated diver; golden eagle; greenshank; hen harrier; merlin; red-throated diver and whooper swan), three on Schedule 1A (golden eagle, hen harrier and white-tailed eagle) and two on Schedule A1 (golden eagle and white-tailed eagle). All of the seven qualifying species for the adjacent Lewis Peatlands SPA were recorded breeding within 2km of the site except golden eagle.
- 5.1.3 Further details regarding sensitive species are included within **Appendix 8D: Confidential Appendix.**



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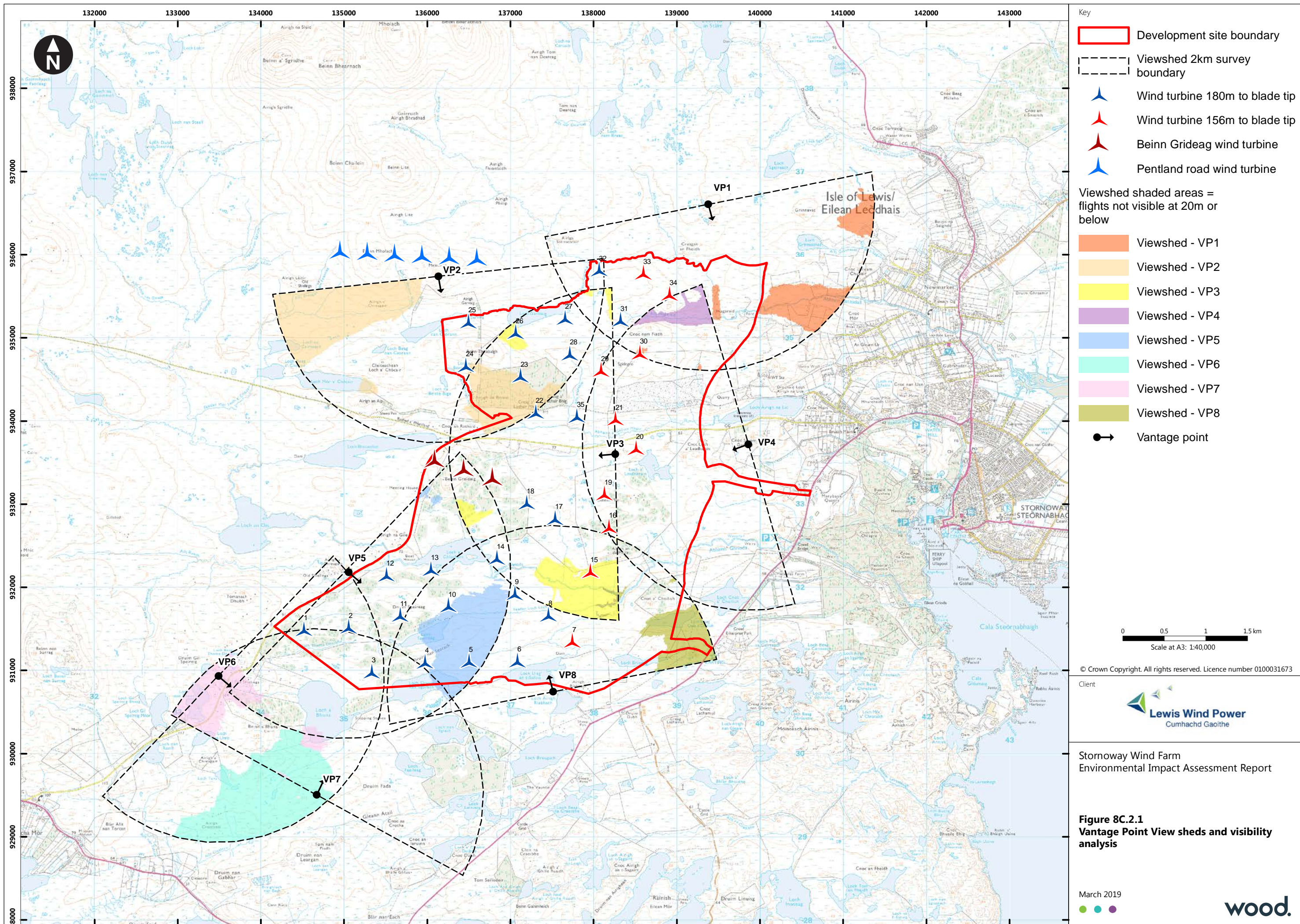


# Annex A

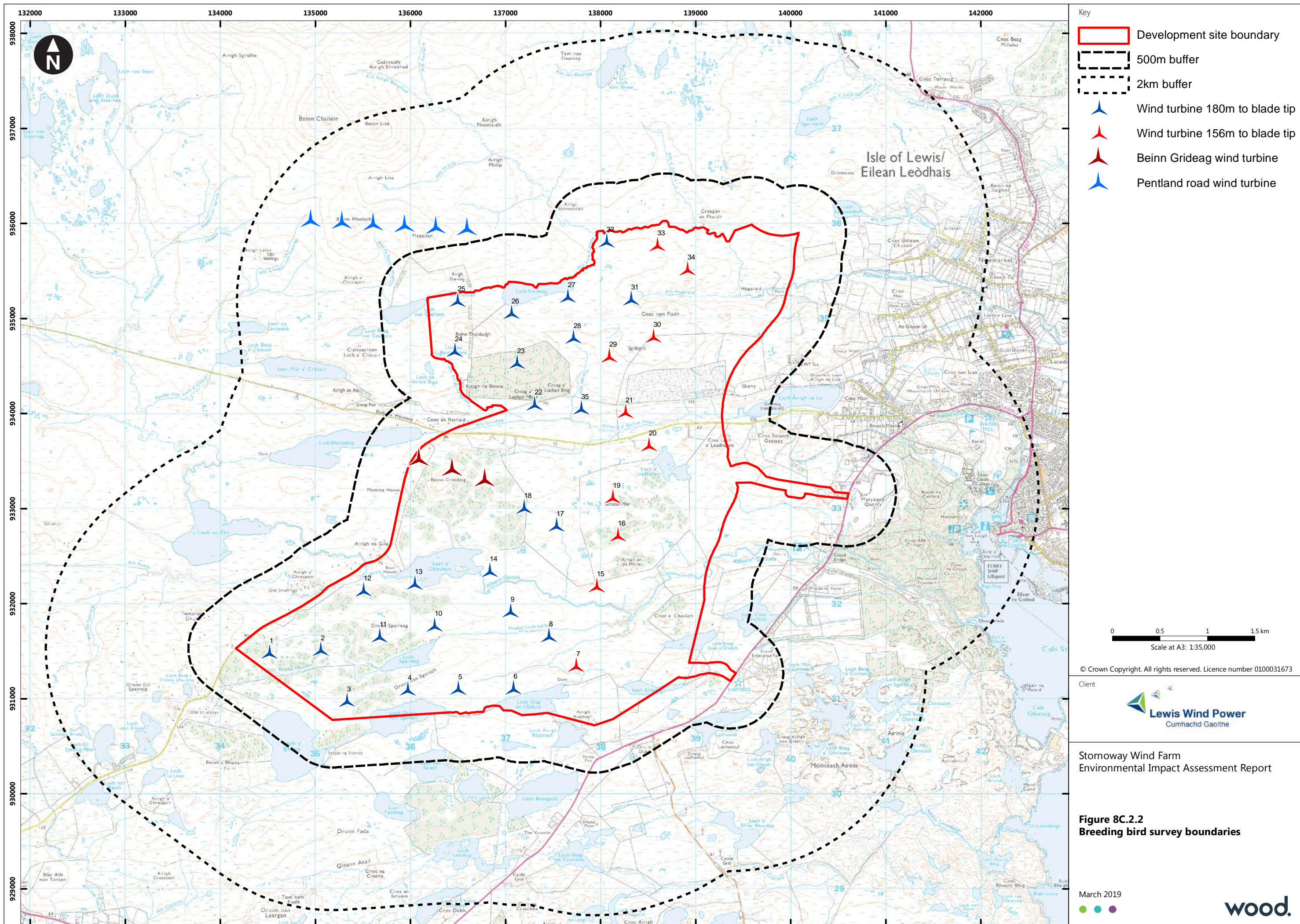
## Figures



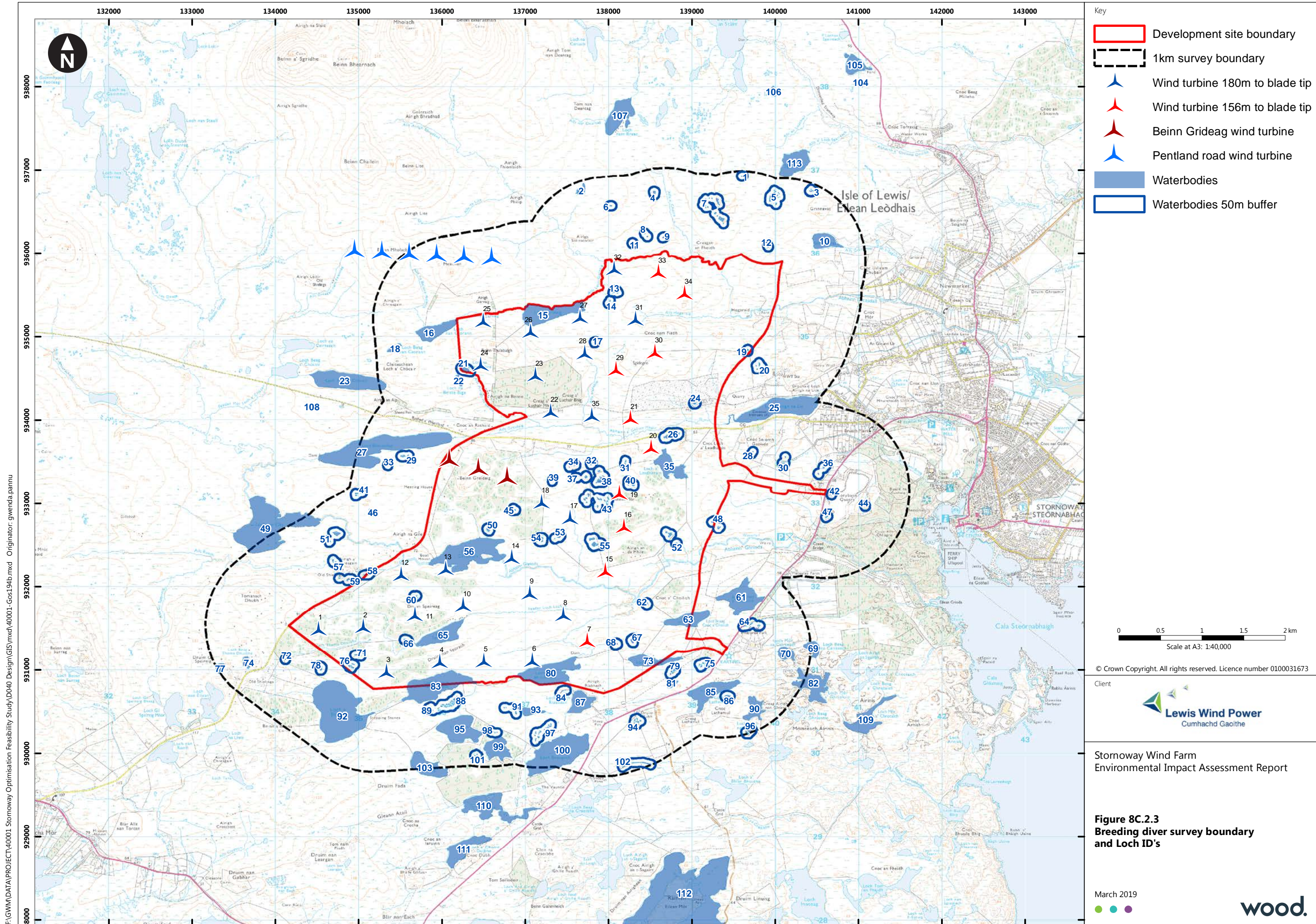




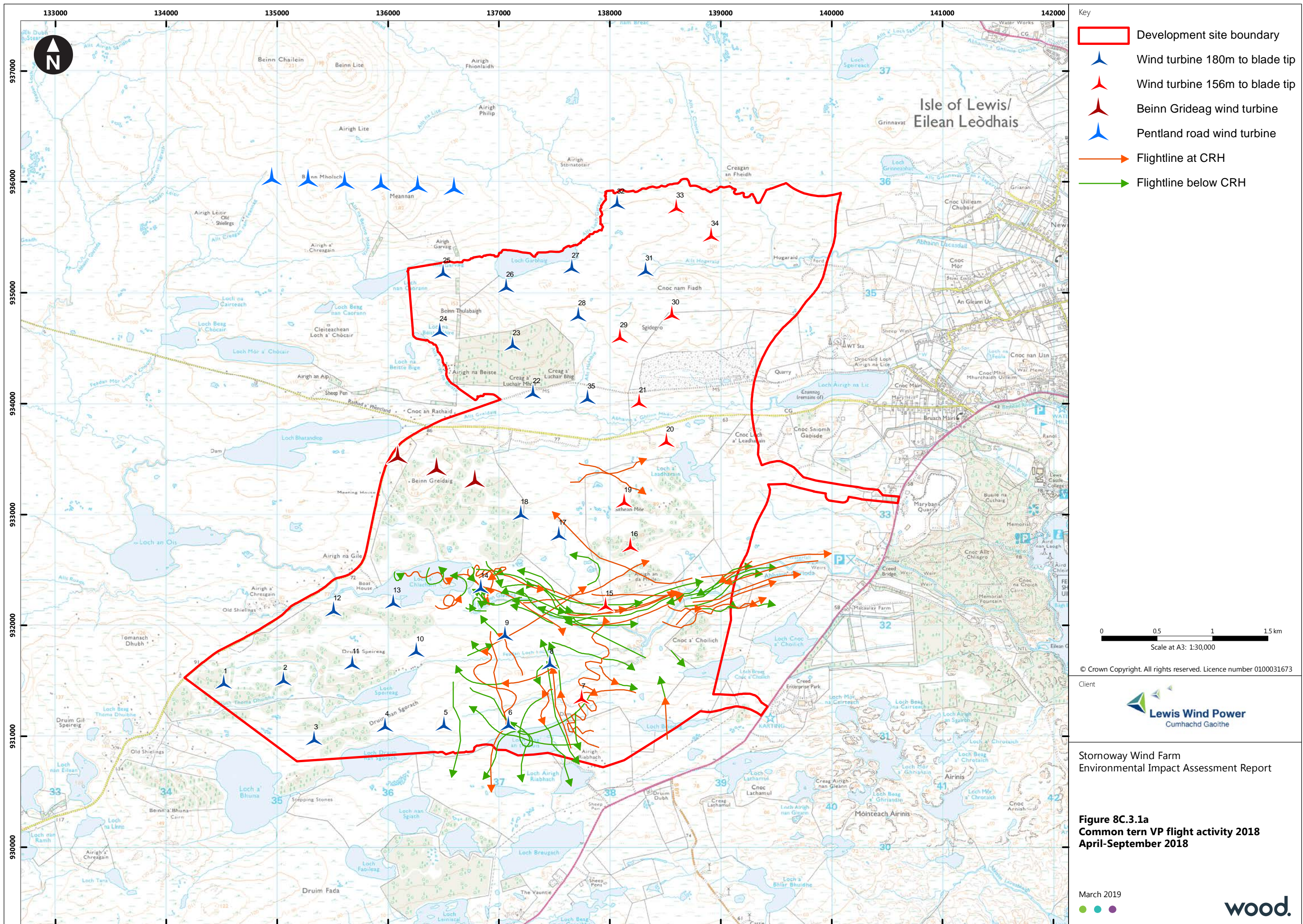




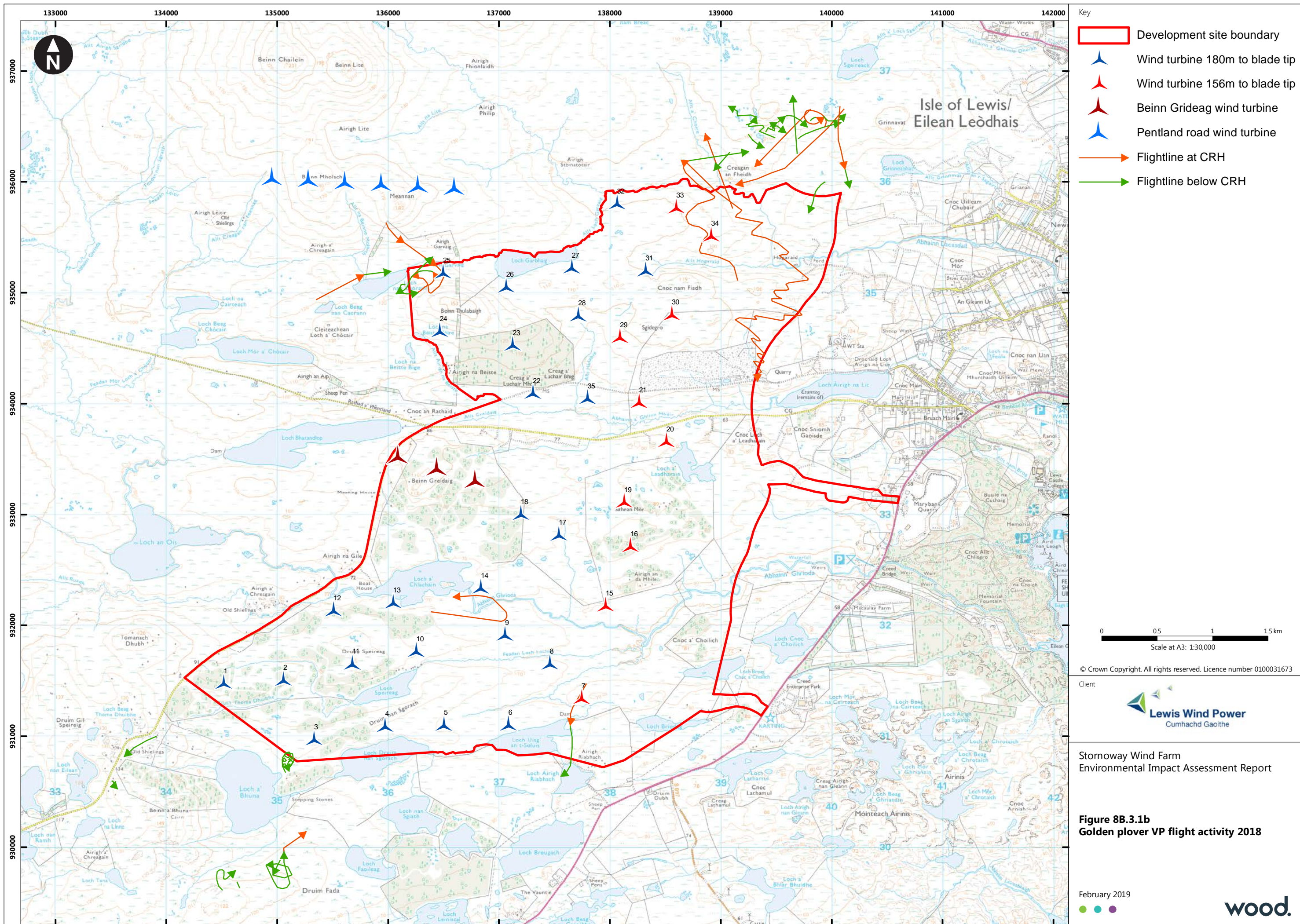




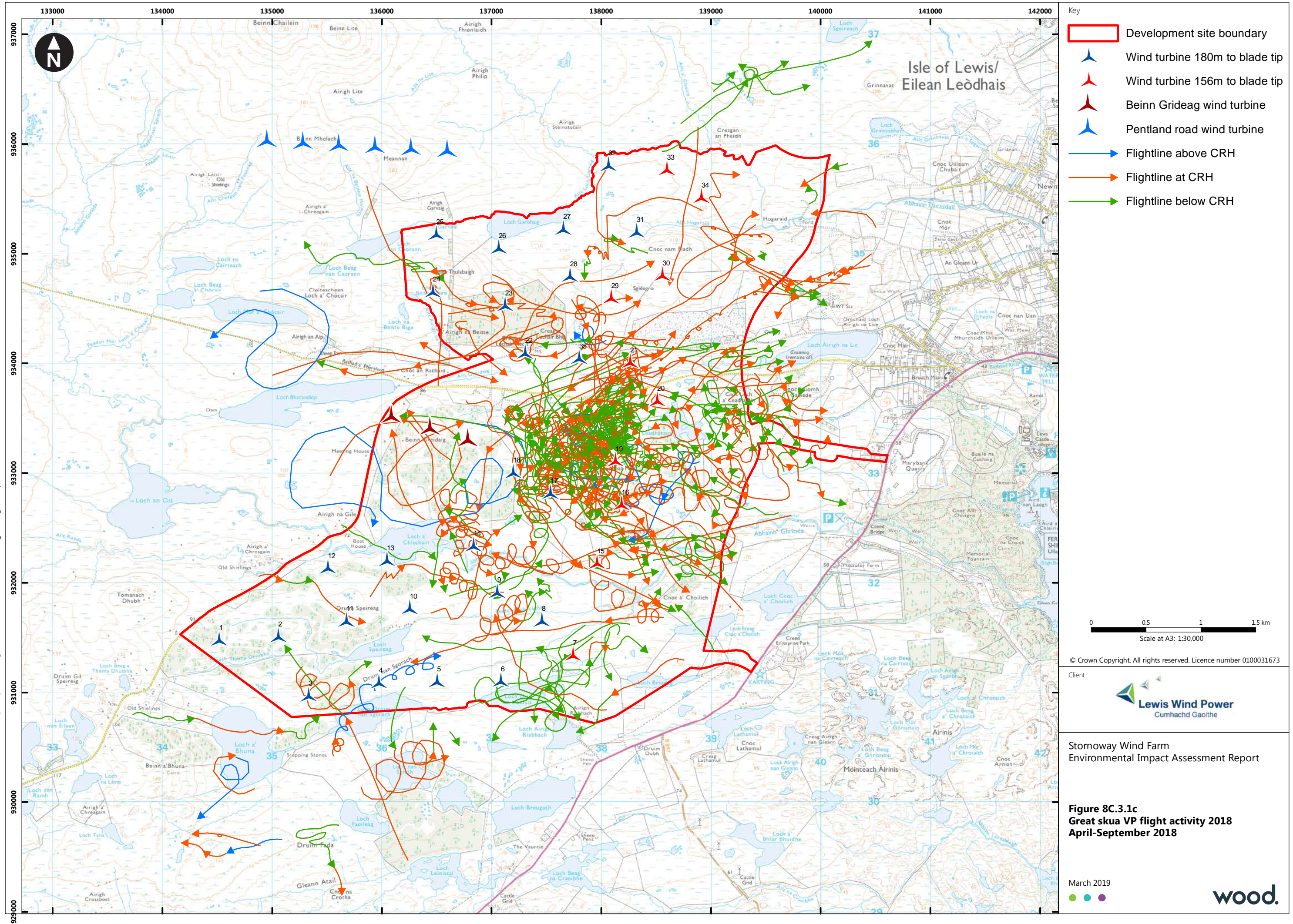




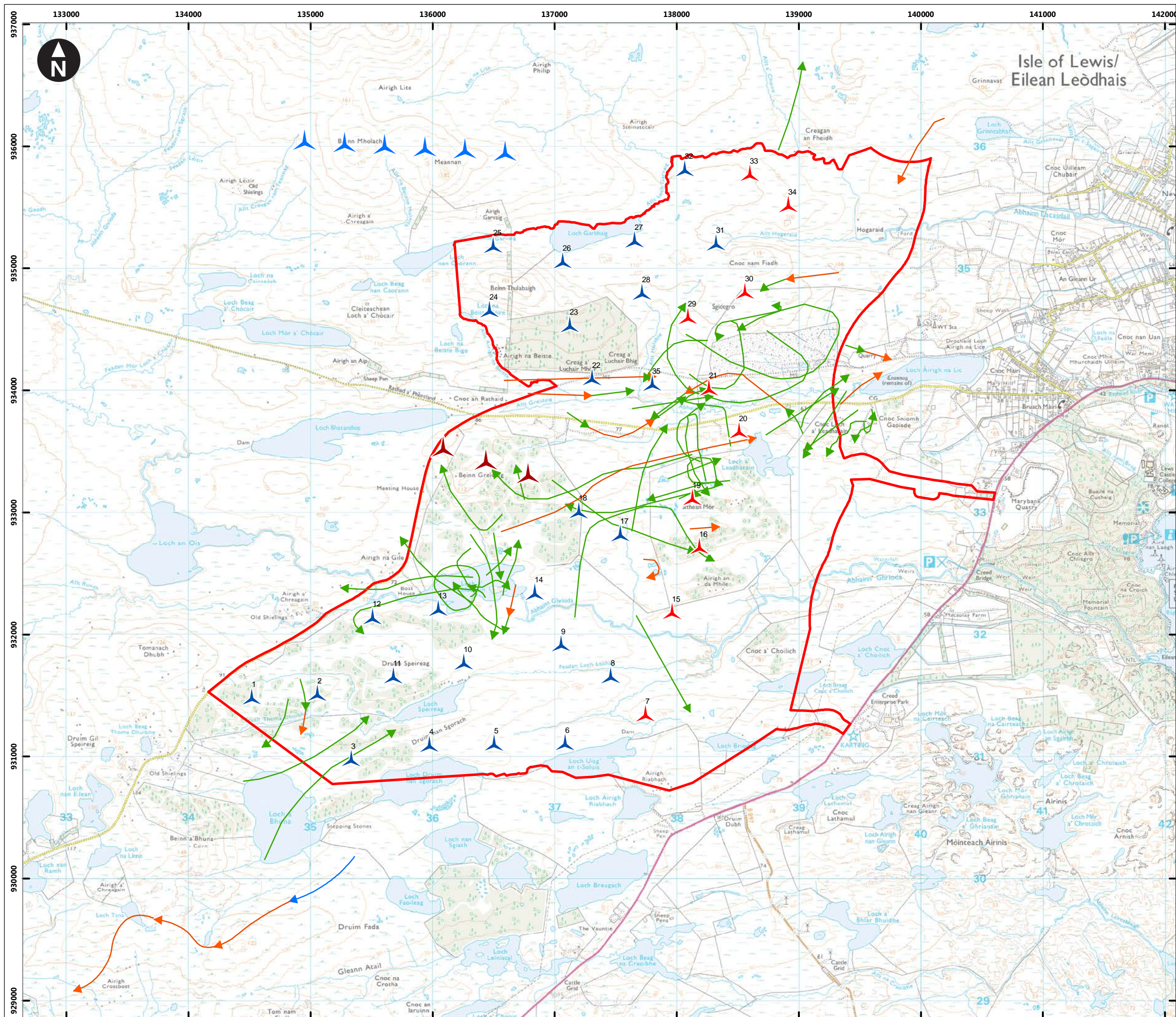












- Key
- Development site boundary
  - ▲ Wind turbine 180m to blade tip
  - ▲ Wind turbine 156m to blade tip
  - ▲ Beinn Grideag wind turbine
  - ▲ Pentland road wind turbine
  - Flightline above CRH
  - Flightline at CRH
  - Flightline below CRH

0 0.5 1 1.5 km  
Scale at A3: 1:30,000

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Client



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**Figure 8C.3.1d**  
**Greylag goose VP flight activity 2018**  
**April-September 2018**

March 2019

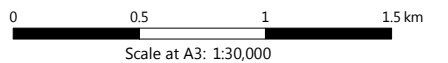
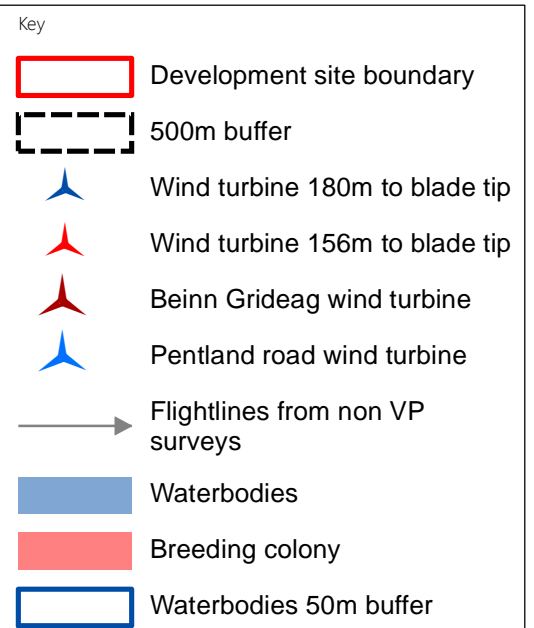
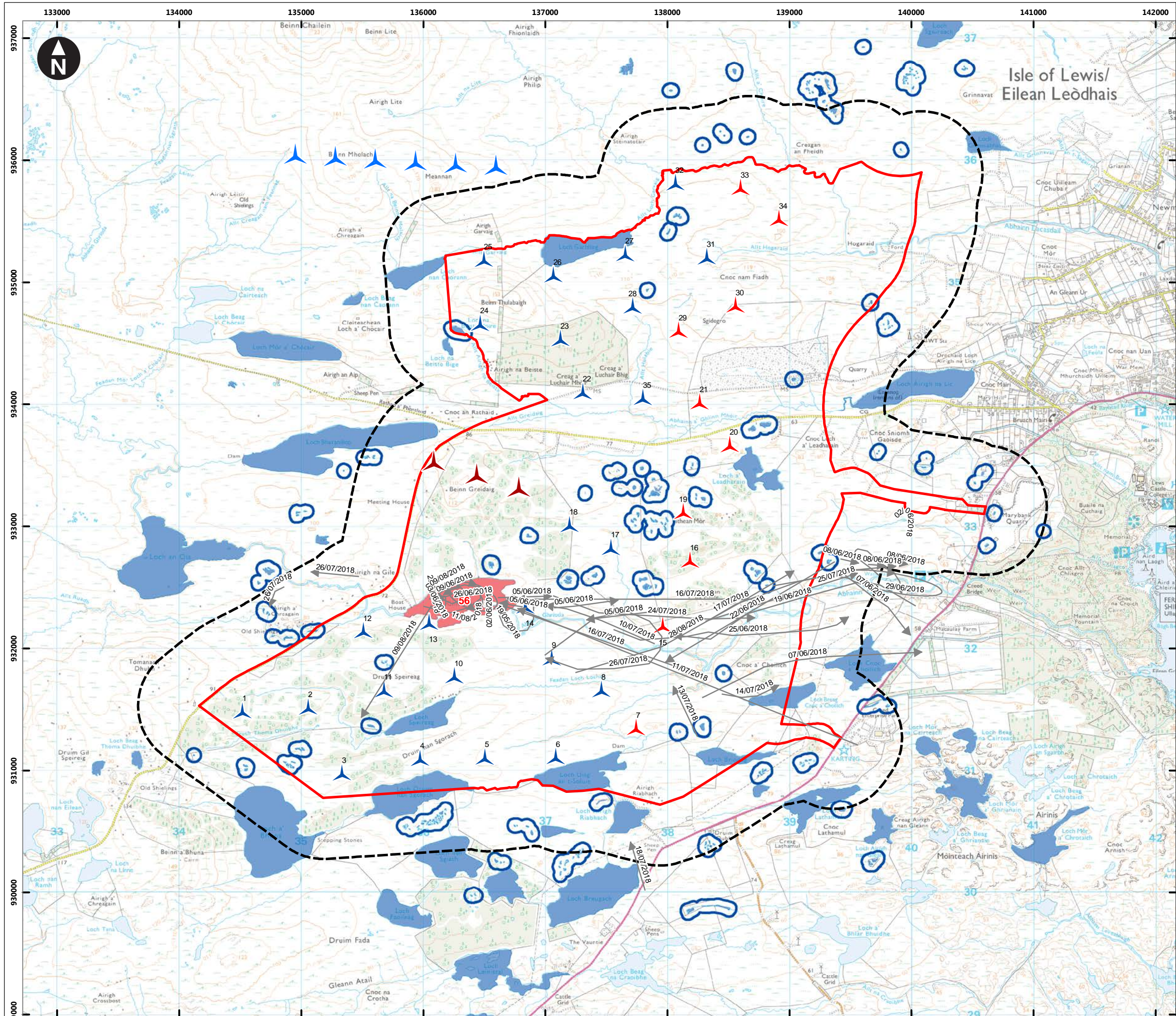
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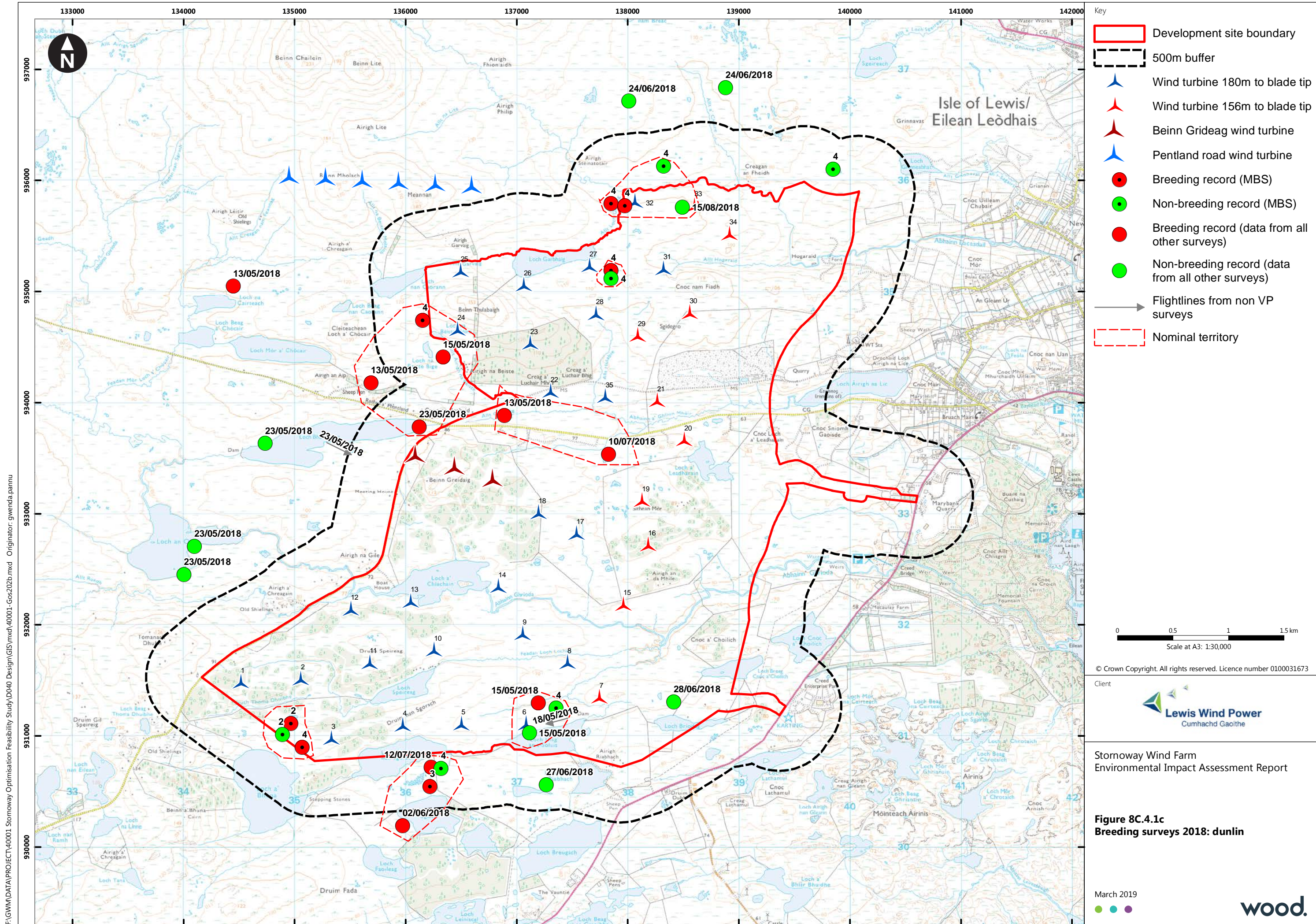
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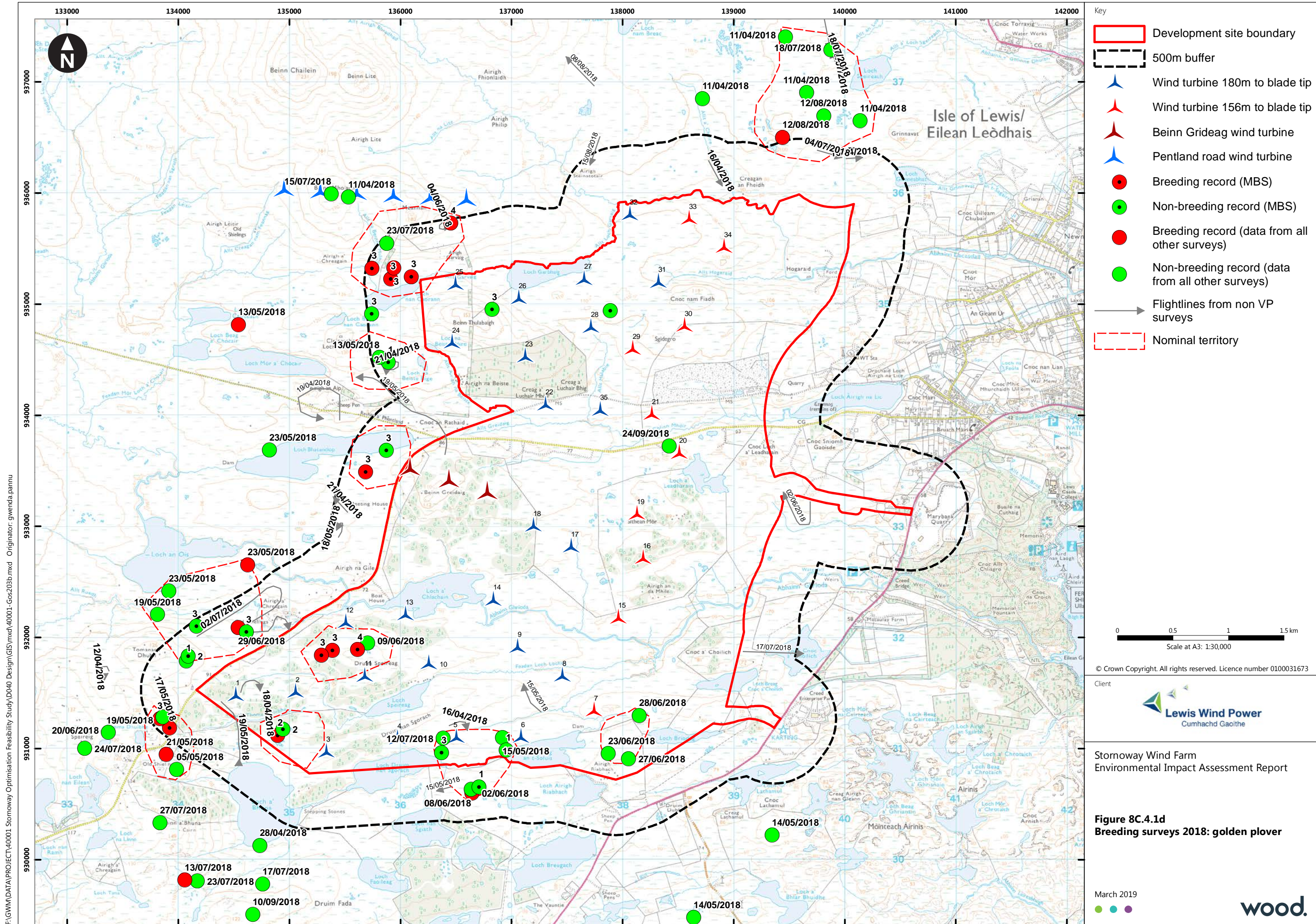
Stormoway Wind Farm  
Environmental Impact Assessment Report

**Figure 8C.4.1b**  
**Breeding surveys 2018: common tern**

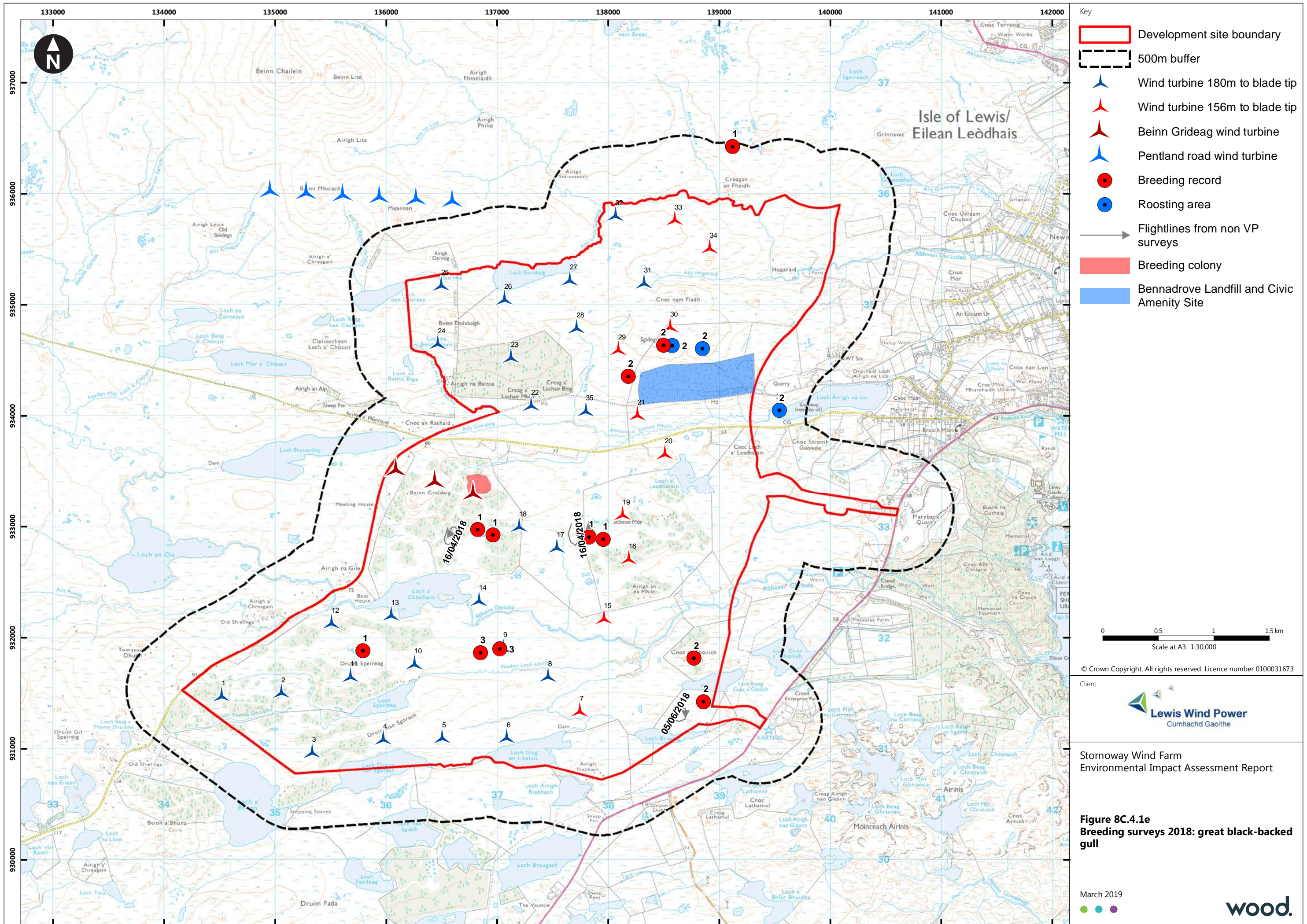




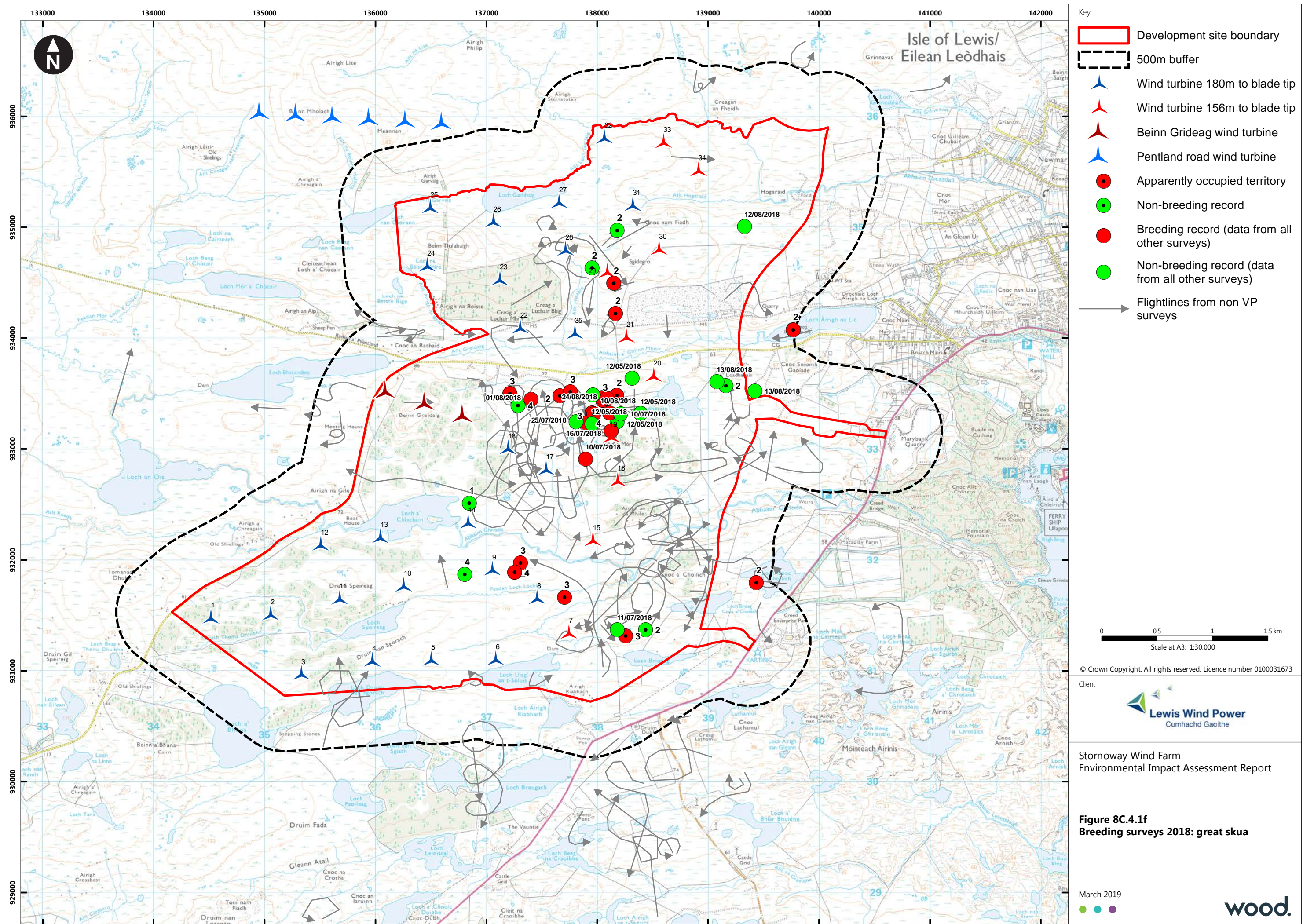




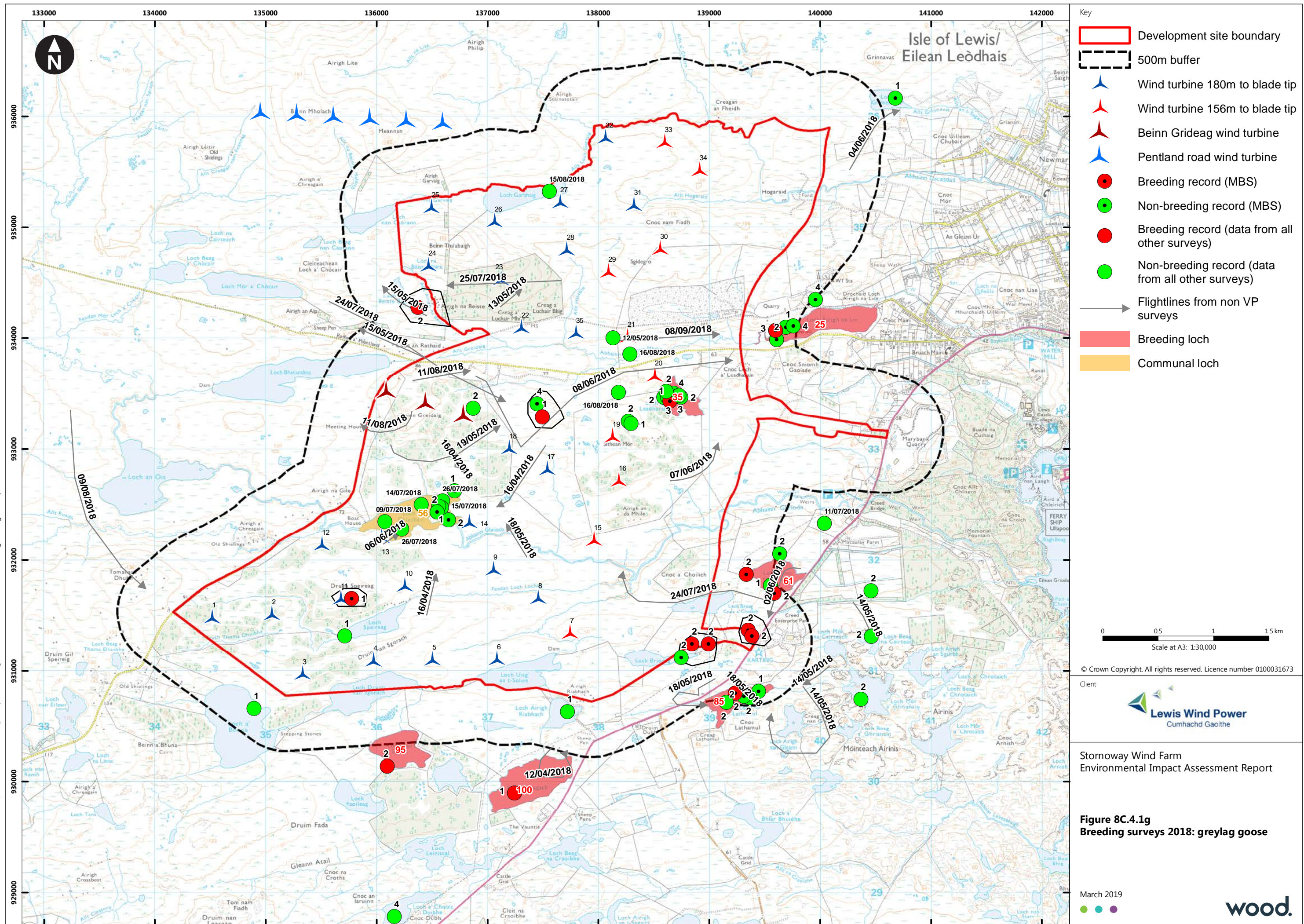




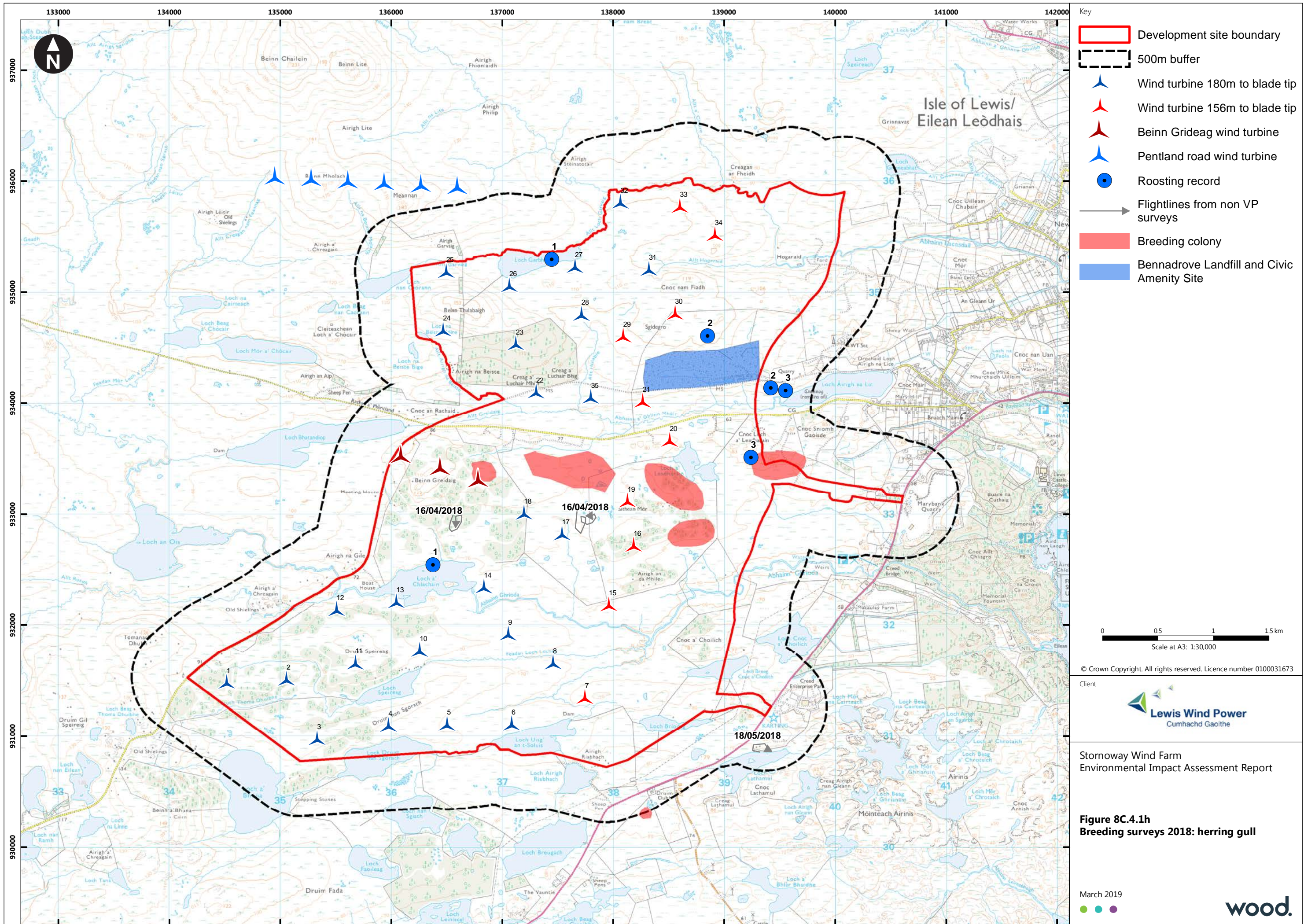








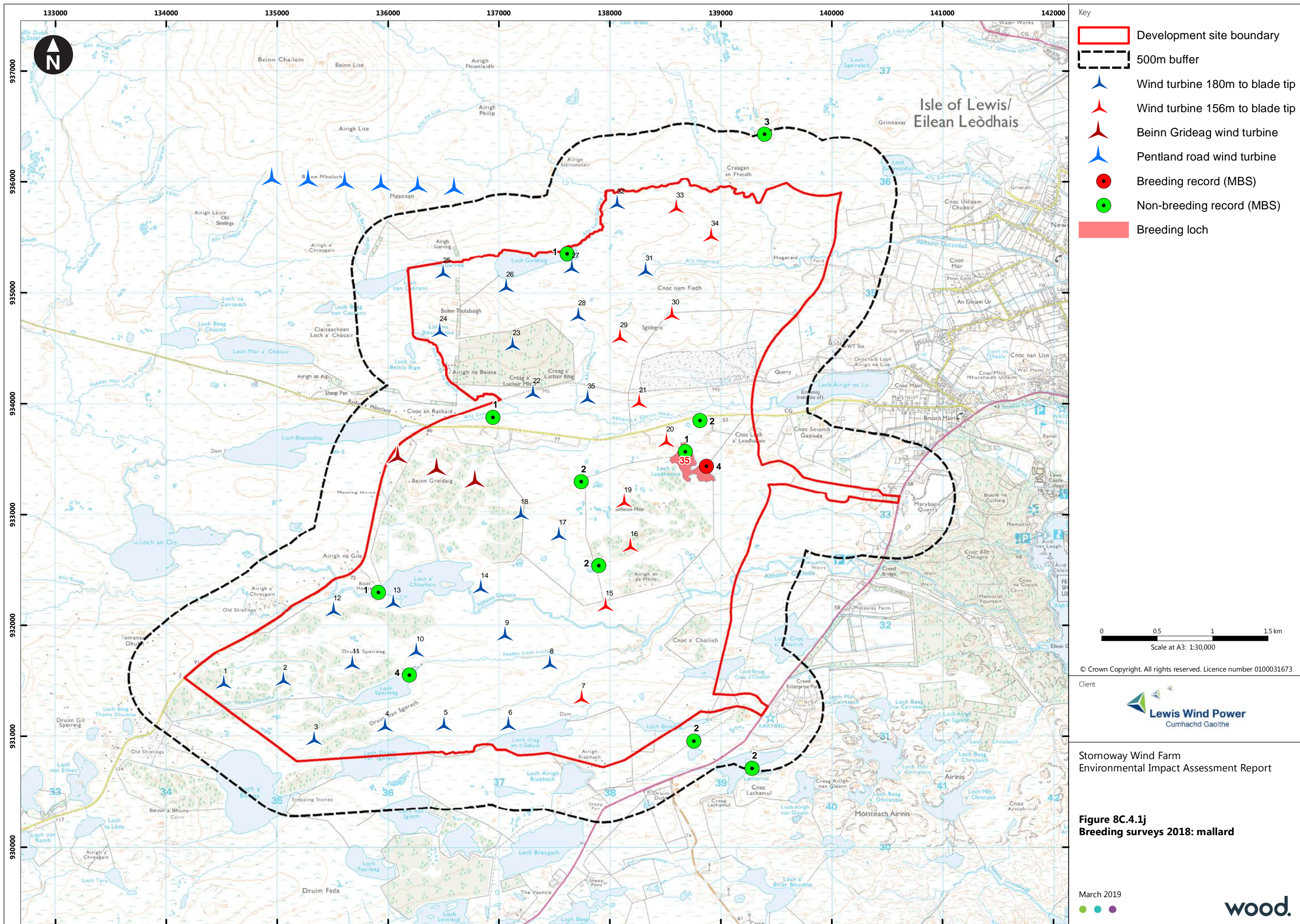












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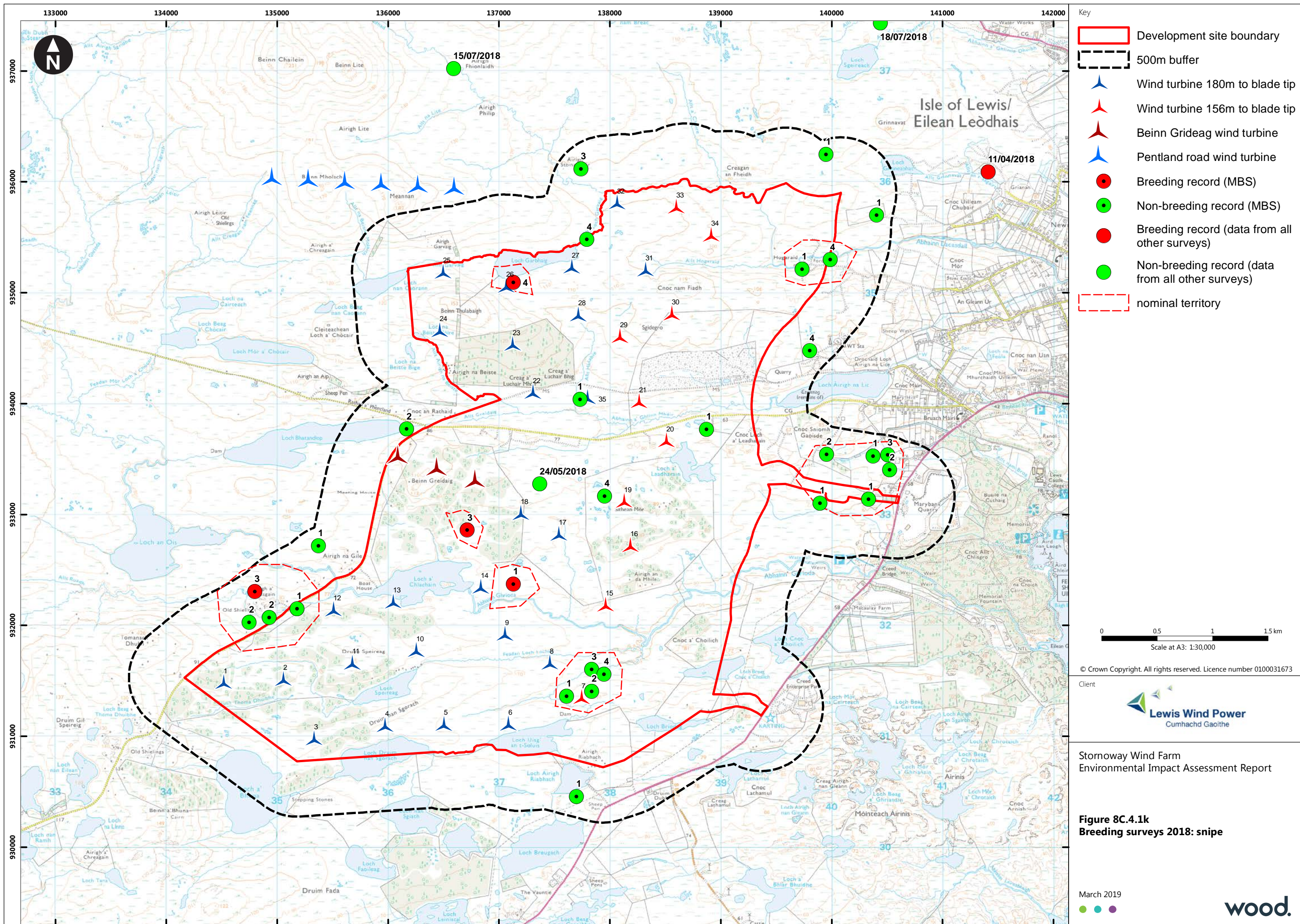
**Lewis Wind Power**  
Cumhachd Gaoithe

Stormoway Wind Farm  
Environmental Impact Assessment Report

**Figure 8C.4.1j**  
**Breeding surveys 2018: mallard**

March 2019







## Annex B

### Scientific Names

Species have been arranged alphabetically as opposed to taxonomically for convenience.

Species	Scientific name
Arctic skua	<i>Stercorarius parasiticus</i>
Black-throated diver	<i>Gavia arctica</i>
Black-tailed godwit	<i>Limosa limosa</i>
Common sandpiper	<i>Actitis hypoleucos</i>
Common tern	<i>Sterna hirundo</i>
Dunlin	<i>Calidris alpina</i>
Golden eagle	<i>Aquila chrysaetos</i>
Golden plover	<i>Pluvialis apricaria</i>
Great black-backed gull	<i>Larus marinus</i>
Great skua	<i>Stercorarius skua</i>
Greenshank	<i>Tringa nebularia</i>
Greylag goose	<i>Anser anser</i>
Hen harrier	<i>Circus cyaneus</i>
Herring gull	<i>Larus argentatus</i>
Lesser black-backed gull	<i>Larus fuscus</i>
Mallard	<i>Anas platyrhynchos</i>
Merlin	<i>Falco columbarius</i>
Peregrine	<i>Falco peregrinus</i>
Pink-footed goose	<i>Anser brachyrhynchus</i>
Red-throated diver	<i>Gavia stellata</i>
Short-eared owl	<i>Asio flammeus</i>
Snipe	<i>Gallinago gallinago</i>
Teal	<i>Anas crecca</i>
White tailed eagle	<i>Haliaeetus albicilla</i>
Whooper swan*	<i>Cygnus cygnus</i>





# Annex C

## Survey Effort



## C.1 VP Survey Effort

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
03/04/2018	1	ATY	07:05	10:05	03:00	Showers, Wind NE 4, Cloud Cover 8, Visibility 1-3km, Temp 3-4c
03/04/2018	1	ATY	10:55	13:55	03:00	Showers, Wind NE 4, Cloud Cover 8, Visibility 1-3km, Temp 4-5c
04/04/2018	4	ATY	06:45	09:45	03:00	Dry, Wind N 4-5, Cloud Cover 1-3, Visibility 1-3km, Temp 4c
04/04/2018	5	ATY	11:50	14:50	03:00	Dry, Wind N 4, Cloud Cover 1-2, Visibility 1-3km, Temp 5c
05/04/2018	6	ATY	12:20	15:20	03:00	Dry, Wind W 2-3, Cloud Cover 7, Visibility 1-3km, Temp 5c
05/04/2018	8	ATY	17:15	20:15	03:00	Dry, Wind E 1-2, Cloud Cover 7-8, Visibility 1-3km, Temp 5-6c
08/04/2018	2	ATY	06:55	09:55	03:00	Dry, Wind SW 3, Cloud Cover 5-7, Visibility 1-3km, Temp 6-8c
08/04/2018	2	ATY	11:25	14:25	03:00	Showers, Wind SW 3, Cloud Cover 6-7, Visibility 1-3km, Temp 8-10c
10/04/2018	3	PRO	12:45	15:45	03:00	Dry, Wind F3-4 SE-E, Cloud Cover 3/8, Visibility >3km, Temp 8c
10/04/2018	5	PRO	16:45	19:45	03:00	Dry, Wind F4 E, Cloud Cover 3-6/8, Visibility >3km, Temp 7-6c
25/04/2018	3	PRO	17:30	20:30	03:00	Dry, Wind F5 SW, Cloud Cover 3-6/8, Visibility >3km, Temp 5-9c
26/04/2018	6	PRO	06:30	09:30	03:00	Dry, Wind F4 SW, Cloud Cover 4-6/8, Visibility >3km, Temp 3-4c
26/04/2018	8	PRO	12:15	15:15	03:00	Dry, Wind F5 NW, Cloud Cover 4-6/8, Visibility >3km, Temp 5c
27/04/2018	5	PRO	06:20	09:20	03:00	Dry, Wind F1-3 W, Cloud Cover 3-4/8, Visibility >3km, Temp 3-4c

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
27/04/2018	4	PRO	12:20	15:20	03:00	Dry, Wind F1-4 W, Cloud Cover 4-6/8, Visibility >3km, Temp 4-5c
28/04/2018	7	PRO	06:10	09:10	03:00	Dry, Wind F1-3 E, Cloud Cover 4-6/8, Visibility >3km, Temp 0-3c
28/04/2018	2	PRO	17:15	20:15	03:00	Dry, Wind F3-4 E, Cloud Cover 2/8, Visibility >3km, Temp 4-8c
29/04/2018	6	PRO	17:35	20:35	03:00	Dry, Wind F3 E, Cloud Cover 2/8, Visibility >3km, Temp 3-5c
29/04/2018	8	ATY	05:55	08:55	03:00	Dry, Wind F3 NE, Cloud Cover 1-3/8, Visibility >3km, Temp 6-8c
29/04/2018	1	ATY	17:35	20:35	03:00	Dry, Wind F2 NE, Cloud Cover 1/8, Visibility >3km, Temp 8-9c
30/04/2018	3	PRO	06:05	09:05	03:00	Dry, Wind F1-2 E, Cloud Cover 1/8, Visibility >3km, Temp 0-3c
30/04/2018	4	PRO	17:00	20:00	03:00	Dry, Wind F4-5 S, Cloud Cover 2/8, Visibility >3km, Temp 3-8c
30/04/2018	7	ATY	13:30	16:30	03:00	Dry, Wind F2 S, Cloud Cover 1-2/8, Visibility >3km, Temp 10c
30/04/2018	7	ATY	17:00	20:00	03:00	Dry, Wind F3 S, Cloud Cover 1/8, Visibility >3km, Temp 8-10c
01/05/2018	2	PRO	06:30	09:30	03:00	Light showers, Wind F5 S, Cloud cover 8/8, Visibility >3km, Temp 3c
02/05/2018	2	PRO	10:10	13:10	03:00	Dry, Wind F4-5 W, Cloud Cover 4/8, Visibility >3km, Temp 4-5c
02/05/2018	5	PRO	05:55	08:55	03:00	Dry, Wind F0-3 W, Cloud Cover 4/8, Visibility >3km, Temp 3c
03/05/2018	8	PRO	12:15	15:15	03:00	Light showers, Wind F4 SW, Cloud cover 8/8, Visibility >3km, Temp 5c
05/05/2018	4	ATY	17:50	20:50	03:00	Light sHowers, Wind SW 4, Cloud cover 7-8, Visibility 1-3km, Temp 10-11c

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
05/05/2018	6	ATY	05:55	08:55	03:00	Light sHowers, Wind SW 4, Cloud cover 7-8, Visibility 1-3km, Temp 10-11c
06/05/2018	3	ATY	18:40	21:40	03:00	No weather sheet
06/05/2018	4	ATY	14:30	17:30	03:00	No weather sheet
07/05/2018	8	ATY	05:15	08:15	03:00	No weather sheet
07/05/2018	8	ATY	17:20	20:20	03:00	No weather sheet
11/05/2018	1	ATY	06:25	09:25	03:00	No weather sheet
11/05/2018	1	ATY	10:00	13:00	03:00	No weather sheet
12/05/2018	6	PRO	16:25	19:25	03:00	Dry, Wind F5 S, Cloud cover 2/8, Visibility >3km, Temp 10-12c
12/05/2018	3	PCL	16:20	19:20	03:00	Dry, Wind F3 S, Cloud cover 1/8, Visibility >3km, Temp 10-13c
12/05/2018	7	ATY	06:25	09:25	03:00	Dry, Wind F3 S, Cloud cover 1/8, Visibility >3km, Temp 10-13c
12/05/2018	7	ATY	09:55	12:55	03:00	Dry, Wind F3 S, Cloud cover 1/8, Visibility >3km, Temp 10-13c
13/05/2018	5	ATY	05:15	08:15	03:00	Dry, Wind 1-4 Variable, Cloud cover 3-7, Visibility 1-3km, Temp 9-10c
13/05/2018	6	ATY	18:35	21:35	03:00	Dry, Wind 1-4 Variable, Cloud cover 3-7, Visibility 1-3km, Temp 9-10c
15/05/2018	2	PRO	15:30	18:30	03:00	Dry, Wind F5 S, Cloud cover 4-5/8, Visibility >3km, Temp 6-8c
15/05/2018	7	PCL	15:25	18:25	03:00	Dry, Wind F5 W, Cloud cover 4-7/8, Visibility >3km, Temp 10-11c
22/05/2018	4	ATY	06:40	09:40	03:00	Dry, Wind NE 3, Cloud cover 2-6, Visibility 1-3km, Temp 8-9c
22/05/2018	5	ATY	18:20	21:20	03:00	Dry, Wind NE 3, Cloud cover 2-6, Visibility 1-3km, Temp 8-9c

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
24/05/2018	1	CBR	19:00	22:00	03:00	Dry, Wind 2-3Variable, Cloud cover 0-1, Visibility 1-3km, Temp 9-15c
24/05/2018	3	CBR	05:10	08:10	03:00	Dry, Wind 0-2 S, Cloud cover 0-2, Visibility 1-3km, Temp 5-14c
07/06/2018	2	PRO	14:45	17:45	03:00	Dry, Wind NE3, Cloud cover 2, Visibility >3km, Temp 18c
07/06/2018	6	NRO	14:15	17:15	03:00	Dry, Wind NE3, Cloud cover 2-3, Visibility 1-3km, Temp 16-18c
10/06/2018	8	PRO	10:45	13:45	03:00	Dry, Wind S2-3, Cloud cover 2-3, Visibility 1-3km, Temp 18-19c
11/06/2018	1	ATY	09:10	12:10	03:00	Dry, Wind F2-3 NW, Cloud cover 4-5, Visibility 1-2km, Temp 11-13c
11/06/2018	1	ATY	05:20	08:20	03:00	Dry, Wind F2-3 NW, Cloud cover 5-7, Visibility 1-2km, Temp 14c
16/06/2018	7	ATY	06:45	09:45	03:00	Light shower, Wind F3-4 SE, Cloud cover 8, Visibility 1-2km, Temp 10-12c
16/06/2018	7	ATY	10:15	13:15	03:00	Light shower, Wind F3-4 SE, Cloud cover 8, Visibility 1-2km, Temp 10-12c
17/06/2018	2	ATY	20:20	23:20	03:00	Dry, Wind F5 SW, Cloud cover 8, Visibility 1-2km, Temp 11-12c
18/06/2018	4	ATY	17:10	20:10	03:00	Dry, Wind F6 SW, Cloud cover 2-4, Visibility 1-2km, Temp 10-11c
18/06/2018	3	ATY	12:50	15:50	03:00	Dry, Wind F5-6 SW, Cloud cover 8, Visibility 1-2km, Temp 11-12c
21/06/2018	5	PRO	10:05	13:05	03:00	Dry, Wind W4, Cloud cover 4-8, Visibility >3km, Temp 10-12c
23/06/2018	8	PRO	18:45	21:45	03:00	Dry, Wind W5-6, Cloud cover 7-8, Visibility >3km, Temp 9-12c
23/06/2018	6	ATY	19:25	22:25	03:00	Dry, Wind F4 SW, Cloud cover 6-7, Visibility 1-2km, Temp 11-14c



Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
24/06/2018	2	ATY	06:10	09:10	03:00	Dry, Wind F4 SW, Cloud cover 1-2, Visibility 1-2km, Temp 10-12c
26/06/2018	1	CBR	18:00	21:00	03:00	Dry, Wind NE 0-3, Cloud cover 1-6, Visibility 1-3km, Temp 15-17c
27/06/2018	8	PRO	05:15	08:15	03:00	Dry, Wind S 0-1, Cloud cover 1-8, Visibility >3km, Temp 18-21c
27/06/2018	3	CBR	15:40	18:40	03:00	Dry, Wind SW 2-3, Cloud cover 0, Visibility 1-3km, Temp 21c
27/06/2018	6	CBR	06:30	09:30	03:00	Dry, Wind SW 2-3, Cloud cover 0, Visibility 1-3km, Temp 12-16c
28/06/2018	7	ATY	18:40	21:40	03:00	Dry, Wind F3 NE, Cloud cover 1, Visibility >3km, Temp 16-18c
29/06/2018	4	CBR	12:40	15:40	03:00	Dry, Wind NE 2-3, Cloud cover 0, Visibility 1-3km, Temp 20-23c
29/06/2018	5	ATY	16:50	19:50	03:00	Dry, Wind 3 NE, Cloud 0, Visibility >3km, Temp 21-22c
30/06/2018	3	ATY	07:05	10:05	03:00	Dry, Wind 2-3 S, Cloud 0-1, Visibility >3km, Temp 17-20c
05/07/2018	3	CBR	13:30	16:30	03:00	Showers, Wind SW 2-3, Cloud cover 5-7, Visibility 1-3km, Temp 12-13c
09/07/2018	5	PCL	13:45	16:45	03:00	Dry, Wind W 3-4, Cloud cover 8, Visibility 1-3km, Temp 15-16c
09/07/2018	5	PCL	17:45	20:45	03:00	Dry, Wind W 2-3, Cloud cover 8, Visibility 1-3km, Temp 14-15c
09/07/2018	1	ATY	16:35	19:35	03:00	Dry, Wind 3 SW, Cloud 8, Visibility >3km, Temp 14-16c
10/07/2018	2	PCL	11:00	14:00	03:00	Misty, Wind N 1-2, Cloud cover 8, Visibility <1km, Temp 13-14c
13/07/2018	6	PCL	09:20	12:20	03:00	Dry, Wind S 3-4, Cloud cover 5-7, Visibility 1-3km, Temp 13-15c

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
15/07/2018	5	PCL	08:45	11:45	03:00	Misty, Wind SW 3-4, Cloud cover 8, Visibility 1-3km, Temp 14-15c
16/07/2018	1	YBR	10:00	13:00	03:00	Dry, Wind S 3, Cloud cover 7-8, Visibility 1-3km, Temp 13c
16/07/2018	8	PCL	09:10	12:10	03:00	Showers, Wind SW 4, Cloud cover 2-6, Visibility 1-3km, Temp 13-15c
17/07/2018	4	YBR	09:30	12:30	03:00	Dry, Wind S 2-3, Cloud cover 2-3, Visibility 1-3km, Temp 16c
17/07/2018	7	PCL	09:45	12:45	03:00	Showers, Wind SW 1-3, Cloud cover 6-8, Visibility 1-3km, Temp 14-15c
18/07/2018	2	YBR	07:30	10:30	03:00	Dry, Wind Sw 2, Cloud cover 8, Visibility 1-3km, Temp 10-12c
23/07/2018	2	NRO	15:15	18:15	03:00	Dry, Wind SW 3, Cloud cover 7-8, Visibility >3km, Temp 15-18c
23/07/2018	7	PRO	15:15	18:15	03:00	Dry, Wind S 3-4, Cloud cover 7-8, Visibility >3km, Temp 15-18c
24/07/2018	6	NRO	15:55	18:55	03:00	Dry, Wind S 4-5, Cloud cover 6-8/8, Visibility >3km, Temp 13-15c
25/07/2018	3	NRO	17:30	20:30	03:00	Drizzle, Wind S 4, Cloud cover 7-8/8, Visibility >3km, Temp 13-16c
25/07/2018	6	PRO	13:00	16:00	03:00	Dry, Wind S 4, Cloud cover 3-4/8, Visibility >3km, Temp 15-16c
25/07/2018	8	NRO	13:25	16:25	03:00	Dry, Wind S 4-5, Cloud cover 4-6/8, Visibility >3km, Temp 16-17c
26/07/2018	4	NRO	08:40	11:40	03:00	Dry, Wind SE 3-6, Cloud cover 1-2/8, Visibility >3km, Temp 16-18c
26/07/2018	5	PRO	08:30	11:30	03:00	Dry, Wind SE 5 Cloud cover 1/8, Visibility >3km, Temp 17c
27/07/2018	4	NRO	12:50	15:50	03:00	Dry, Wind S 4 Cloud cover 7/8, Visibility >3km, Temp 19c

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
27/07/2018	7	PRO	12:50	15:50	03:00	Dry, Wind S 4 Cloud cover 6-7/8, Visibility >3km, Temp 18-19c
28/07/2018	4	PRO	14:45	17:45	03:00	Dry, Wind SE 3-4 Cloud cover 7/8, Visibility >3km, Temp 18-19c
30/07/2018	8	PRO	15:50	18:50	03:00	Dry, Wind S 6 Cloud cover 4-6/8, Visibility >3km, Temp 15c
31/07/2018	1	PRO	06:50	09:50	03:00	Dry, Wind S 2-3 Cloud cover 7/8, Visibility >3km, Temp 11c
01/08/2018	3	PRO	08:00	11:00	03:00	Dry, Wind S 4 Cloud cover 8/8, Visibility >3km, Temp 9c
07/08/2018	6	PCL	14:30	17:30	03:00	Dry, Wind SW 5, Cloud Cover 6-5, Visibility >3km, Temp 14-15c
08/08/2018	2	PCL	13:45	16:45	03:00	Dry, Wind SW 5, Cloud Cover 6-7, Visibility >3km, Temp 15c
09/08/2018	8	PCL	13:10	16:10	03:00	Light showers, Wind SW-W 3-5, Cloud Cover 6-7, Visibility >3km, Temp 13-14c
10/08/2018	3	PCL	14:45	17:45	03:00	Dry, Wind W-N 2-3, Cloud Cover 6-7, Visibility >3km, Temp 14c
12/08/2018	7	YBR	09:45	12:45	03:00	Dry, Wind NE 3-4, Cloud Cover 7-6, Visibility >3km, Temp 14c
12/08/2018	7	YBR	13:15	16:15	03:00	Drizzle, Wind NE 3-4, Cloud Cover 8-6, Visibility >3km, Temp 14c
12/08/2018	1	PCL	09:30	12:30	03:00	Dry, Wind NE 4-3, Cloud Cover 8-7, Visibility >3km, Temp 13-14c
12/08/2018	1	PCL	13:00	16:00	03:00	Drizzle, Wind E 0-1, Cloud Cover 8, Visibility >3km, Temp 15c
13/08/2018	6	YBR	11:15	14:15	03:00	Light showers, Wind SE 2, Cloud Cover 8, Visibility >3km, Temp 13-15c
13/08/2018	8	PCL	17:35	20:35	03:00	Light showers, Wind S-SE 3, Cloud Cover 8, Visibility >3km, Temp 15c

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
13/08/2018	4	PCL	13:55	16:55	03:00	Dry, Wind S 3-4, Cloud Cover 8, Visibility >3km, Temp 14-15c
14/08/2018	5	YBR	09:30	12:30	03:00	Light to heavy showers, Wind SE 2-4, Cloud Cover 8, Visibility >3km, Temp 13c
14/08/2018	4	PCL	10:00	13:00	03:00	Light to heavy showers, Wind SW 3, Cloud Cover 8, Visibility 1-3km to >3km, Temp 14c
15/08/2018	8	YBR	09:20	12:20	03:00	Dry, Wind SW 2-4, Cloud Cover 7-8, Visibility >3km, Temp 14c
15/08/2018	2	PCL	10:15	13:15	03:00	Light showers, Wind SW 3-4, Cloud Cover 8, Visibility >3km, Temp 14c
16/08/2018	6	YBR	17:45	20:45	03:00	Dry, Wind SW 3-4 Cloud cover 6-8, Visibility >3km, Temp 13-14c
17/08/2018	3	YBR	07:15	10:15	03:00	Dry, Wind SW 1-2 Cloud cover 8, Visibility >3km, Temp 11-13c
17/08/2018	1	YBR	17:20	20:20	03:00	Dry-Drizzle, Wind SW 3 Cloud cover 8, Visibility >3km, Temp 13-14c
22/08/2018	5	PRO	12:15	15:15	03:00	Dry, Wind SW 4, Cloud Cover 7, Visibility >3km, Temp 12c
23/08/2018	2	PRO	07:15	10:15	03:00	Dry, Wind SW 4, Cloud Cover 4, Visibility >3km, Temp 9-10c
23/08/2018	7	PRO	16:30	19:30	03:00	Light showers, Wind SW 4, Cloud Cover 5, Visibility >3km, Temp 11-10c
24/08/2018	3	PRO	10:15	13:15	03:00	Dry, Wind NW 4-5, Cloud Cover 5, Visibility >3km, Temp 13c
24/08/2018	5	PRO	15:15	18:15	03:00	Dry, Wind SW 5, Cloud Cover 6, Visibility >3km to 1-3km, Temp 13c
25/08/2018	4	PRO	16:55	19:55	03:00	Dry, Wind W 2-3, Cloud Cover 6-4, Visibility >3km, Temp 15c
08/09/2018	7	PRO	16:15	19:15	03:00	Dry, Wind S 3, Cloud cover 3-7, Visibility >3km, Temp 16-14c

Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
09/09/2018	4	PRO	09:25	12:25	03:00	Light to heavy showers, Wind S 4, Cloud cover 8-4, Visibility 1-3km to >3km, Temp 8c
09/09/2018	6	PRO	14:50	17:50	03:00	Dry, Wind SW 4-5, Cloud cover 5, Visibility >3km, Temp 10-8c
10/09/2018	5	PRO	16:00	19:00	03:00	Light rain, Wind SW 5-4, Cloud cover 8, Visibility >3km, Temp 10-9c
10/09/2018	7	PRO	09:35	12:35	03:00	Dry then heavy showers, Wind SW 5, Cloud cover 6-8, Visibility >3km, Temp 9c
11/09/2018	2	PRO	08:30	11:30	03:00	Dry, Wind SW 5, Cloud cover 4, Visibility >3km, Temp 7-8c
11/09/2018	8	PRO	15:00	18:00	03:00	Dry then heavy showers, Wind SW 6, Cloud cover 4-7, Visibility >3km, Temp 9c
12/09/2018	1	PRO	15:00	18:00	03:00	Light to heavy showers, Wind W 5, Cloud Cover 4-7, Visibility >3km, Temp 9c
12/09/2018	5	PRO	10:00	13:00	03:00	Dry, Wind W 5, Cloud cover 4-6, Visibility >3km, Temp 9c
13/09/2018	3	PRO	17:10	20:10	03:00	Dry, Wind SW 6-5, Cloud cover 6-7, Visibility >3km, Temp 11-9c
13/09/2018	5	PRO	06:50	09:50	03:00	Heavy showers, Wind SW 5, Cloud cover 4-6, Visibility >3km, Temp 4-5c
13/09/2018	6	PRO	11:30	14:30	03:00	Dry, Wind W 6, Cloud cover 4-6, Visibility >3km, Temp 8-10c
14/09/2018	1	PRO	12:00	15:00	03:00	Dry then light showers, Wind W 6-5, Cloud cover 4-5, Visibility >3km, Temp 11c
15/09/2018	6	PRO	07:50	10:50	03:00	Dry, Wind SW-S 2-3, Cloud cover 4, Visibility >3km, Temp 6-9c
20/09/2018	7	PRO	12:40	15:40	03:00	Light showers, Wind SW-W 5, Cloud cover 4-8, Visibility >3km, Temp 9-10c
21/09/2018	1	PRO	08:30	11:30	03:00	Light showers, Wind N 4, Cloud cover 4, Visibility >3km, Temp 5-6c



Date	VP	Surveyor	Start	Finish	Duration	Weather Summary
21/09/2018	3	PRO	14:10	17:10	03:00	Dry, Wind W 5, Cloud cover 4, Visibility >3km, Temp 9-7c
22/09/2018	2	PRO	11:30	14:30	03:00	Dry, Wind NW 5, Cloud cover 4, Visibility >3km, Temp 10c
22/09/2018	4	PRO	15:30	18:30	03:00	Light showers, Wind NW 4-3, Cloud cover 4-6, Visibility >3km, Temp 10-8c
23/09/2018	2	PRO	15:00	18:00	03:00	Dry then heavy showers, Wind N 5, Cloud cover 5, Visibility >3km, Temp 7c
23/09/2018	8	PRO	11:20	14:20	03:00	Dry then heavy showers, Wind NW 4-5, Cloud cover 4, Visibility >3km, Temp 6c
24/09/2018	3	PRO	07:00	10:00	03:00	Light showers, Wind SW 3, Cloud cover 4, Visibility >3km, Temp 2-4c
24/09/2018	4	PRO	12:00	15:00	03:00	Heavy showers, Wind SW 5, Cloud cover 6-7, Visibility >3km, Temp 6-7c
25/09/2018	8	PRO	08:30	11:30	03:00	Dry then heavy showers, Wind SW 6, Cloud cover 8, Visibility >3km to 1-3km, Temp 7c

## C.2 Breeding Bird Survey Effort

Date	Survey Type	Visit Number	Surveyor	Start	Finish	Duration	Weather Summary
11/04/2018	Raptors	Visit 1	PRO	09:20	18:20	09:00	Dry, Wind F4 E, Cloud Cover 2/8, Visibility >3km, Temp 8c
12/04/2018	Raptors	Visit 1	PRO	08:40	18:20	09:40	Dry, Wind F4 E, Cloud Cover 3-1/8, Visibility >3km, Temp 6-9c
13/04/2018	Raptors	Visit 1	PRO	09:25	18:00	08:35	Dry, Wind F4/5 E, Cloud Cover 7-3/8, Visibility >3km, Temp 4-5c
14/04/2018	Raptors	Visit 1	PRO	08:50	17:50	09:00	Dry, Wind F5 SE, Cloud Cover 2/8, Visibility >3km, Temp 8-9c
15/04/2018	Raptors	Visit 1	PRO	08:30	16:30	08:00	Dry, Wind F4 SE, Cloud Cover 2/8, Visibility >3km, Temp 7-9c
16/04/2018	MBS	Visit 1	PRO	09:30	17:30	08:00	Dry, Wind F4 S, Cloud Cover 4-7/8, Visibility >3km, Temp 8c
16/04/2018	MBS	Visit 1	ATY	09:50	18:00	08:10	Dry, Wind F4 S, Cloud Cover 6-7/8, Visibility >3km, Temp 9-10c
18/04/2018	MBS	Visit 1	PRO	09:10	17:15	08:05	Dry, Wind F4 S, Cloud Cover 3-5/8, Visibility >3km, Temp 9-10c
18/04/2018	MBS	Visit 1	ATY	08:30	16:20	07:50	Light showers, Wind F4 S, Cloud Cover 6-8/8, Visibility >3km, Temp 11-12c
19/04/2018	MBS	Visit 1	ATY	09:29	16:20	06:51	Dry, Wind F4 SW, Cloud Cover 5-8/8, Visibility >3km, Temp 11-12c
20/04/2018	MBS	Visit 1	ATY	08:30	18:41	10:11	Light showers, Wind F4 SW, Cloud Cover 3-7/8, Visibility >3km, Temp 10-12c
21/04/2018	MBS	Visit 1	ATY	08:30	16:40	08:10	Light showers, Wind F4 SW, Cloud Cover 8/8, Visibility >3km, Temp 9-10c
13/05/2018	Raptors	Visit 2	PCL	06:40	15:45	09:05	Dry, Wind 1-4Variable, Cloud cover 2-8, Visibility 1-3km, Temp 6-7c
13/05/2018	Raptors	Visit 2	PRO	06:30	15:45	09:15	Dry, Wind 1-4 Variable, Cloud cover 3-7, Visibility 1-3km, Temp 9-10c

Date	Survey Type	Visit Number	Surveyor	Start	Finish	Duration	Weather Summary
14/05/2018	Raptors	Visit 2	PCL	06:35	11:35	05:00	Dry, Wind 2-3S, Cloud cover 8, Visibility 1-3km, Temp 8-10c
14/05/2018	Raptors	Visit 2	PRO	06:40	15:00	08:20	Light shower, Wind 3-5S, Cloud cover 5-8, Visibility 1-3km, Temp 7-11c
15/05/2018	Raptors	Visit 2	PCL	13:25	14:25	01:00	Light shower, Wind 4-5W, Cloud cover 8, Visibility 1-3km, Temp 10-11c
16/05/2018	MBS	Visit 2	PRO	09:35	17:45	08:10	Dry, Wind F3 SW, Cloud cover 3/8, Visibility >3km, Temp 10c
16/05/2018	MBS	Visit 2	PCL	09:30	18:00	08:30	Dry, Wind 3-4NW, Cloud cover 4-7, Visibility >3km, Temp 8-10c
17/05/2018	MBS	Visit 2	PRO	09:30	18:00	08:30	Dry, Wind F3 SW, Cloud cover 2-4/8, Visibility >3km, Temp 10-12c
17/05/2018	MBS	Visit 2	PCL	09:30	18:00	08:30	Dry, Wind 1-4ENE, Cloud cover 2-7, Visibility 1-3km, Temp 7-12c
17/05/2018	MBS	Visit 2	ATY	09:30	18:30	09:00	Dry, Wind F2-3 SE, Cloud 6-8, Visibility 1-2km, Temp 10-14c
18/05/2018	MBS	Visit 2	PRO	09:00	14:45	05:45	Dry, Wind F3-4 S, Cloud cover 2-4/8, Visibility >3km, Temp 10-12c
18/05/2018	MBS	Visit 2	PCL	09:15	15:15	06:00	Light showers, Wind 3-4 SSW, Cloud cover 7-8, Visibility 1-3km, 9-11c
18/05/2018	MBS	Visit 2	ATY	09:30	18:30	11:00	Dry, Wind F4 Sw, Cloud 8, Visibility 1-2km, Temp 10c
19/05/2018	Raptors	Visit 2	PCL	06:30	16:00	09:30	Dry, Wind 4-5SSW, Cloud cover 7-8, Visibility 1-3km, Temp 10-11c
19/05/2018	Raptors	Visit 2	PRO	06:40	09:40	03:00	Dry, Wind 4S, Cloud cover 7, Visibility 1-3km, Temp 5c
20/05/2018	Raptors	Visit 2	PCL	07:40	11:00	03:20	Heavy showers, Wind 6S, Cloud cover 8, Visibility 1km, Temp 5c

Date	Survey Type	Visit Number	Surveyor	Start	Finish	Duration	Weather Summary
20/05/2018	Raptors	Visit 2	PRO	07:00	11:30	04:30	Heavy showers, Wind 4-6SSW, Cloud cover 8, Visibility 1km, Temp 10c
21/05/2018	Bdiver	Visit 1	CBR	17:30	21:00	03:30	Dry, Wind 1-2NE, Cloud cover 3-8, Visibility 1-3km, Temp 10-13c
22/05/2018	Bdiver	Visit 1	CBR	09:00	17:20	08:20	Dry, Wind 1-4SW, Cloud cover 1-8, Visibility 1-3km, Temp 13-14c
23/05/2018	Bdiver	Visit 1	CBR	08:40	17:40	09:00	Dry, Wind 1-2S, Cloud cover 3-5, Visibility 1-3km, Temp 13-16c
24/05/2018	Bdiver	Visit 1	CBR	08:00	13:00	05:00	Dry, Wind 1-2S, Cloud cover 3-5, Visibility 1-3km, Temp 13-16c
01/06/2018	Bdiver	Visit 2	PRO	20:30	22:30	02:00	Dry, Wind E2, Cloud cover 2, Visibility 1-3km, Temp 18c
04/06/2018	MBS	Visit 3	NRO	09:30	17:30	08:00	Dry, Wind NE 3, Cloud cover 3-8, Visibility 1-3km, Temp 11-12c
04/06/2018	MBS	Visit 3	PRO	09:30	18:00	08:30	Dry, Wind NE 3, Cloud cover 4-8, Visibility 1-3km, Temp 11-12c
04/06/2018	MBS	Visit 3	ATY	09:30	18:30	09:00	Dry, Wind F3-4 NE, Cloud cover 8, Visibility 1-2km, Temp 10-14c
05/06/2018	MBS	Visit 3	NRO	09:30	17:30	08:00	Dry, Wind NE 3, Cloud cover 2-3, Visibility 1-3km, Temp 12-14c
05/06/2018	MBS	Visit 3	PRO	09:10	17:30	08:20	Dry, Wind NE 3, Cloud cover 1-3, Visibility 1-3km, Temp 12c
05/06/2018	MBS	Visit 3	ATY	08:30	18:30	10:00	Dry, Wind F2-3 E, Cloud cover 2-4, Visibility 1-2km, Temp 13-15c
06/06/2018	MBS	Visit 3	PRO	09:00	13:30	04:30	Dry, Wind NE 3, Cloud cover 1-4, Visibility 1-3km, Temp 14-16c
06/06/2018	MBS	Visit 3	NRO	09:00	13:30	04:30	Dry, Wind NE 3, Cloud cover 5-6, Visibility 1-3km, Temp 14-15c

Date	Survey Type	Visit Number	Surveyor	Start	Finish	Duration	Weather Summary
08/06/2018	Bdiver	Visit 2	NRO	08:20	16:30	08:10	Dry, Wind NNE3, Cloud cover 2-5/8, Visibility 1-3km, Temp 16-18c
08/06/2018	Bdiver	Visit 2	PRO	07:45	10:20	02:35	Dry, Wind E3, Cloud cover 2-5, Visibility >3km, Temp 10c
08/06/2018	Bdiver	Visit 2	PRO	15:00	16:30	01:30	Dry, Wind E3, Cloud cover 2-5, Visibility >3km, Temp 10c
09/06/2018	Bdiver	Visit 2	PRO	17:45	22:00	04:15	Dry, Wind E3, Cloud cover 2, Visibility 1-3km, Temp 16-18c
20/06/2018	Raptors	Visit 3	PRO	07:30	09:30	02:00	Showers, Wind SW 4, Cloud cover 4-7, Visibility 1-3km, Temp 14c
20/06/2018	Raptors	Visit 3	PRO	14:15	18:00	03:45	Showers, Wind SW 4, Cloud cover 4-7, Visibility 1-3km, Temp 14c
22/06/2018	Raptors	Visit 3	PRO	08:30	13:30	05:00	Dry, Wind W 4, Cloud cover 3-4, Visibility 1-3km, Temp 14-15c
24/06/2018	Raptors	Visit 3	PRO	16:30	18:00	01:30	Dry, Wind W 4, Cloud cover 3, Visibility 1-3km, Temp 15c
24/06/2018	Bdiver	Visit 3	PRO	09:00	15:45	06:45	Dry, Wind W 4, Cloud cover 3, Visibility 1-3km, Temp 14-15c
26/06/2018	Raptors	Visit 3	PRO	17:30	21:30	04:00	Dry, Wind S 3, Cloud cover 1, Visibility 1-3km, Temp 27c
26/06/2018	Bdiver	Visit 3	PRO	10:00	13:30	03:30	Dry, Wind S 2, Cloud cover 4, Visibility 1-3km, Temp 17c
27/06/2018	Raptors	Visit 3	PRO	15:30	18:30	03:00	Dry, Wind S 3, Cloud cover 2, Visibility 1-3km, Temp 19c
01/07/2018	MBS	Visit 4	CBR	13:30	17:10	03:40	Light showers, Wind NE 2, Cloud cover 6-8, Visibility 1-3km, Temp 16-17c
02/07/2018	MBS	Visit 4	CBR	09:00	16:00	07:00	Dry, Wind E 2, Cloud cover 0-2, Visibility >3km, Temp 20-21c

Date	Survey Type	Visit Number	Surveyor	Start	Finish	Duration	Weather Summary
02/07/2018	MBS	Visit 4	ATY	09:30	18:30	09:00	Dry, Wind 1-2 SW, Cloud 0-1, Visibility 1-2km, Temp 15-18c
03/07/2018	MBS	Visit 4	CBR	09:00	13:10	04:10	Dry, Wind NE 1, Cloud cover 0-1, Visibility >3km, Temp 17-21c
03/07/2018	MBS	Visit 4	ATY	08:30	18:30	10:00	Dry, Wind 1-2 NE, Cloud 1-2, Visibility 1-2km, Temp 16-20c
04/07/2018	MBS	Visit 4	CBR	08:30	17:45	09:15	Dry, Wind S 2-3, Cloud cover 2-4, Visibility 1-3km, Temp 18-23c
04/07/2018	MBS	Visit 4	ATY	09:30	18:30	09:00	Dry, Wind 3-4 SSW, Cloud 1-3, Visibility 1-2km, Temp 19-21c
05/07/2018	MBS	Visit 4	ATY	08:30	18:30	10:00	Dry, Wind 3 W, Cloud 3-8, Visibility 1-2km, Temp 12-15c
09/07/2018	Raptors	Visit 4	PCL	16:45	17:45	01:00	Dry, Wind W 3, Cloud cover 8, Visibility >3km, Temp 15c
11/07/2018	Raptors	Visit 4	PCL	14:05	15:50	01:45	Showers, Wind N 3, Cloud cover 8, Visibility >3km, Temp 14c
12/07/2018	Raptors	Visit 4	PCL	09:40	10:00	00:20	Showers, Wind N 3, Cloud cover 8, Visibility >3km, Temp 13c
13/07/2018	Raptors	Visit 4	PCL	12:30	13:15	00:45	Dry, Wind S 4, Cloud cover 8, Visibility >3km, Temp 15c
13/07/2018	Raptors	Visit 4	PCL	15:50	16:30	00:40	Dry, Wind S 4, Cloud cover 8, Visibility >3km, Temp 16c
15/07/2018	Raptors	Visit 4	PCL	12:15	14:30	02:15	Drizzle, Wind S 4, Cloud cover 8, Visibility 1-2km, Temp 15c
18/07/2018	Raptors	Visit 4	PCL	08:05	10:05	02:00	Dry, Wind W 1-3, Cloud cover 8, Visibility >3km, Temp 12-13c
18/07/2018	Raptors	Visit 4	PCL	10:20	12:50	02:30	Dry, Wind W 1-3, Cloud cover 8, Visibility >3km, Temp 14c



### C.3 Hen Harrier Focal Watch Survey Effort

Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
17/04/2018	HH FW1	PRO	17:00	20:00	03:00	Dry, Wind F6 S, Cloud Cover 3-6/8, Visibility >3km, Temp 10c
19/04/2018	HH FW2	PRO	10:00	13:00	03:00	Dry, Wind F4 S, Cloud Cover 4/8, Visibility >3km, Temp 10-11c
29/04/2018	HH FW3	PRO	10:15	13:15	03:00	Dry, Wind F3-4 NE, Cloud Cover 2/8, Visibility >3km, Temp 4-5c
02/05/2018	HH FW2	PRO	14:00	17:00	03:00	Light showers, Wind F5 SW, Cloud cover 4/8, Visibility >3km, Temp 5c
04/05/2018	HH FW1	PRO	10:30	13:30	03:00	Light showers, Wind F5 S, Cloud cover 8/8, Visibility >3km, Temp 5c
15/05/2018	HH FW2	PRO	05:10	08:10	03:00	Light shower, Wind F4 S, Cloud cover 7-8/8, Visibility >3km, Temp 6c
15/05/2018	HH FW3	PCL	05:10	08:10	03:00	Light shower, Wind F3-5 S/SW, Cloud cover 8/8, Visibility 1-3km, Temp 8-10c
19/05/2018	HH FW2	PRO	10:15	13:15	03:00	Dry, Wind S4, Cloud cover 3-7, Visibility >3km, Temp 7-9c
25/05/2018	HH FW2	CBR	10:45	13:45	03:00	Dry, Wind 3NE, Cloud cover 3-8, Visibility 1-3km, Temp 11-15c
02/06/2018	HH FW4	PRO	18:25	21:25	03:00	Dry, Wind E3, Cloud cover 4-8, Visibility 1-3km, Temp 12-16c
02/06/2018	HH FW5	PRO	11:00	14:00	03:00	Dry, Wind E1-2, Cloud cover 5, Visibility 1-3km, Temp 18-20c
02/06/2018	HH FW6	PRO	05:00	08:00	03:00	Dry, Wind 0, Cloud cover 4, Visibility 1-3km, Temp 15c
03/06/2018	HH FW2	PRO	13:55	16:55	03:00	Dry, Wind NE3, Cloud cover 7-8, Visibility 1-3km, Temp 10-11c
03/06/2018	HH FW4	PRO	09:35	12:35	03:00	Dry, Wind NE2-3, Cloud cover 8, Visibility <1km, Temp 10c

Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
06/06/2018	HH FW2	PRO	17:00	20:00	03:00	Dry, Wind E3, Cloud cover 1, Visibility 1-3km, Temp 17-19c
06/06/2018	HH FW4	NRO	17:00	20:00	03:00	Dry, Wind NE2, Cloud cover 3, Visibility 1-3km, Temp 15c
07/06/2018	HH FW2	NRO	08:55	11:55	03:00	Dry, Wind NE2, Cloud cover 3-5, Visibility 1-3km, Temp 16-17c
07/06/2018	HH FW6	PRO	09:00	12:00	03:00	Dry, Wind E1-2, Cloud cover 2-4, Visibility 1-3km, Temp 18c
08/06/2018	HH FW5	PRO	11:50	14:50	03:00	Dry, Wind E3, Cloud cover 3, Visibility 1-3km, Temp 17c
08/06/2018	HH FW6	NRO	11:00	14:40	03:40	Dry, Wind NE2, Cloud cover 2-3, Visibility 1-3km, Temp 17-18c
09/06/2018	HH FW4	PRO	12:45	15:45	03:00	Dry, Wind E 2, Cloud cover 4, Visibility 1-3km, Temp 18c
19/06/2018	HH FW6	PRO	17:25	20:25	03:00	Dry, Wind SW 4-5, Cloud cover 6, Visibility 1-3km, Temp 11-14c
20/06/2018	HH FW5	PRO	10:15	13:15	03:00	Dry, Wind SW 4, Cloud cover 3-4, Visibility 1-3km, Temp 15c
21/06/2018	HH FW2	PRO	05:40	08:40	03:00	Showers, Wind W 4, Cloud cover 4-7, Visibility 1-3km, Temp 5c
21/06/2018	HH FW6	ATY	14:05	17:05	03:00	Dry, Wind F4 NW, Cloud cover 1-2, Visibility 1-2km, Temp 13c
22/06/2018	HH FW5	PRO	16:45	19:45	03:00	Dry, Wind W 4, Cloud cover 3-7, Visibility 1-3km, Temp 13-15c
22/06/2018	HH FW4	ATY	14:25	17:25	03:00	Light shower, Wind F4 W, Cloud cover 6-7, Visibility 1-2km, Temp 14c
25/06/2018	HH FW5	PRO	04:45	07:45	03:00	Dry, Wind W 2, Cloud cover 4-5, Visibility 1-3km, Temp 7c

Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
25/06/2018	HH FW7	PRO	13:40	16:40	03:00	Dry, Wind W 2-4, Cloud cover 7, Visibility 1-3km, Temp 12c
26/06/2018	HH FW4	PRO	05:00	08:00	03:00	Showers, Wind S 1, Cloud cover 8, Visibility 1-3km, Temp 13c
28/06/2018	HH FW7	PRO	10:10	13:10	03:00	Dry, Wind E 3, Cloud cover 1, Visibility 1-3km, Temp 24-25c
28/06/2018	HH FW5	ATY	13:15	16:15	03:00	Dry, Wind E 3, Cloud cover 1, Visibility 1-3km, Temp 24-25c
29/06/2018	HH FW6	ATY	11:00	14:00	03:00	Dry, Wind 3 NE, Cloud 1, Visibility >3km, Temp 19-21c
30/06/2018	HH FW4	CBR	11:00	14:00	03:00	Dry, Wind NE 3, Cloud cover 0, Visibility 1-3km, Temp 21c
30/06/2018	HH FW6	CBR	06:00	09:00	03:00	Dry, Wind NE 2, Cloud cover 0, Visibility 1-3km, Temp 14-17c
06/07/2018	HH FW6	CBR	09:00	12:00	03:00	Dry, Wind S 2, Cloud cover 6-8, Visibility >3km, Temp 16-18c
11/07/2018	HH FW6	PCL	07:15	10:15	03:00	Light showers, Wind N 2-3, Cloud cover 8, Visibility 1-3km, Temp 12-13c
11/07/2018	HH FW7	PCL	11:05	14:05	03:00	Light showers, Wind N 3-4, Cloud cover 8, Visibility 1-3km, Temp 13-14c
12/07/2018	HH FW5	PCL	06:30	09:30	03:00	Dry, Wind NW 1, Cloud cover 8, Visibility 1-3km, Temp 12-13c
13/07/2018	HH FW4	YBR	10:40	13:40	03:00	Dry, Wind Sw 2, Cloud cover 8, Visibility 1-3km, Temp 13c
14/07/2018	HH FW4	PCL	09:45	12:45	03:00	Light showers, Wind SW 3-4, Cloud cover 8, Visibility 1-3, Temp 14c
14/07/2018	HH FW6	YBR	09:30	12:30	03:00	Light showers, Wind SW 3-4, Cloud cover 8, Visibility 1-3km, Temp 14-15c

Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
15/07/2018	HH FW7	YBR	09:50	12:50	03:00	Showers, Wind SW 2-3, Cloud cover 8, Visibility <1km, Temp 15c
24/07/2018	HH FW7	PRO	15:45	18:45	03:00	Dry, Wind SW 4, Cloud cover 4-7/8, Visibility >3km, Temp 15c
25/07/2018	HH FW6	PRO	17:40	20:40	03:00	Dry, Wind S 4-5, Cloud cover 7/8, Visibility >3km, Temp 15c
26/07/2018	HH FW4	NRO	17:45	20:45	03:00	Dry, Wind SE 2-4, Cloud cover 6-8/8, Visibility >3km, Temp 15-19c

## C.4 Diver Focal Watch Survey Effort

Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
12/06/2018	Diver FW1	ATY	03:30	06:30	03:00	Dry, Wind F32 NW, Cloud cover 7-8, Visibility 1-2km, Temp 10-11c
12/06/2018	Diver FW1	ATY	20:30	23:30	03:00	Dry, Wind F2 W, Cloud cover 4-5, Visibility 1-2km, Temp 10-12c
17/06/2018	Diver FW2	ATY	03:50	06:50	03:00	Dry, Wind F3-4 SW, Cloud cover 5-7, Visibility 1-2km, Temp 9-11c
22/06/2018	Diver FW2	PRO	20:35	23:35	03:00	Dry, Wind W 4-6, Cloud cover 6, Visibility 1-3km, Temp 7-10c
28/06/2018	Diver FW2	CBR	03:25	06:25	03:00	Dry, Wind SE 1, Cloud cover 1-2, Visibility 1-3km, Temp 12-16c
28/06/2018	Diver FW5	CBR	20:22	23:22	03:00	Dry, Wind SE 1, Cloud cover 0, Visibility 1-3km, Temp 11-19c
29/06/2018	Diver FW4	CBR	20:32	23:32	03:00	Dry, Wind NE 2-3, Cloud cover 0, Visibility 1-3km, Temp 10-20c
30/06/2018	Diver FW1	CBR	20:33	23:33	03:00	Dry, Wind NE 1-3, Cloud cover 1-6, Visibility 1-3km, Temp 14-20c

Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
30/06/2018	Diver FW2	ATY	03:35	06:35	03:00	Dry, Wind NE 2, Cloud cover 0, Visibility 1-3km, Temp 14-17c
05/07/2018	Diver FW5	CBR	20:32	23:32	03:00	Dry, Wind S 2-3, Cloud cover 3-4, Visibility 1-3km, Temp 15-18c
07/07/2018	Diver FW5	ATY	03:30	06:30	03:00	Dry, Wind 4 S, Cloud 5-6, Visibility >3km, Temp 14-15c
08/07/2018	Diver FW6	ATY	20:25	23:25	03:00	Dry, Wind 2 NW, Cloud 7-8, Visibility >3km, Temp 12-14c
09/07/2018	Diver FW5	ATY	20:25	23:25	03:00	Dry, Wind 3 SW, Cloud 8, Visibility >3km, Temp 13-14c
10/07/2018	Diver FW1	PCL	14:35	17:35	03:00	Light-heavy rain, Wind NW 1-2, Cloud cover 8, Visibility 1-3km, Temp 14c
12/07/2018	Diver FW1	YBR	17:00	20:00	03:00	Dry, Wind W 1-2, Cloud cover 6-7, Visibility 1-3km, Temp 15-17c
12/07/2018	Diver FW2	PCL	17:00	20:00	03:00	Light showers, Wind E 1, Cloud cover 5-7, Visibility 1-3km, Temp 15-16c
12/07/2018	Diver FW4	YBR	06:05	09:05	03:00	Dry, Wind 0, Cloud cover 8, Visibility 1-3km, Temp 12-15c
13/07/2018	Diver FW5	YBR	17:10	20:10	03:00	Dry, Wind S 3-4, Cloud cover 6-8, Visibility 1-3km, Temp 12-17c
13/07/2018	Diver FW6	PCL	17:15	20:15	03:00	Dry, Wind SW 4-5, Cloud cover 7-8, Visibility 1-3km, Temp 16c
14/07/2018	Diver FW2	YBR	05:40	08:40	03:00	Light showers, Wind SW 3, Cloud cover 8, Visibility 1-3km, Temp 14c
14/07/2018	Diver FW6	PCL	05:45	08:45	03:00	Light showers, Wind SW 4-5, Cloud cover 8, Visibility 1-3km, Temp 14c
15/07/2018	Diver FW4	PCL	18:30	21:30	03:00	Light showers, Wind S 3, Cloud cover 8, Visibility 1-3km, Temp 14-15c

Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
15/07/2018	Diver FW6	YBR	18:30	21:30	03:00	Light showers, Wind SW 2-3, Cloud cover 8, Visibility 1-3km, Temp 13-15c
16/07/2018	Diver FW1	PCL	18:15	21:15	03:00	Light showers, Wind SW 4-5, Cloud cover 7-8, Visibility 1-3km, Temp 14-15c
16/07/2018	Diver FW2	YBR	18:10	21:10	03:00	Light showers, Wind SW 2, Cloud cover 6-8, Visibility 1-3km, Temp 15-16c
17/07/2018	Diver FW4	YBR	05:45	08:45	03:00	Dry, Wind SW 1-2, Cloud cover 7-8, Visibility 1-3km, Temp 13-14c
17/07/2018	Diver FW6	PCL	05:40	08:40	03:00	Dry, Wind SW 1-3, Cloud cover 7-8, Visibility 1-3km, Temp 12-13c
24/07/2018	Diver FW2	NRO	05:30	08:30	03:00	Dry, Wind SW 1-3, Cloud cover 1-5/8, Visibility >3km, Temp 10-13c
24/07/2018	Diver FW6	PRO	05:45	08:45	03:00	Dry, Wind SW 2-3, Cloud cover 1-4/8, Visibility >3km, Temp 9c
26/07/2018	Diver FW1	PRO	17:40	20:40	03:00	Dry, Wind SE 2-5, Cloud cover 6/8, Visibility >3km, Temp 16-19c
29/07/2018	Diver FW5	PRO	16:45	19:45	03:00	Dry, Wind S 4-6 Cloud cover 4-5/8, Visibility >3km, Temp 14c
08/08/2018	Diver FW5	PCL	17:35	20:35	03:00	Dry, Wind W 4-5, Cloud cover 5-7, Visibility >3km, Temp 13-15c
10/08/2018	Diver FW2	PCL	18:15	21:15	03:00	Dry, Wind NW-W 1-2, Cloud cover 4-6, Visibility >3km, Temp 12-15c
11/08/2018	Diver FW2	PCL	05:50	08:50	03:00	Light shower, Wind E 1-3, Cloud Cover 8, Visibility >3km, Temp 14-13c
11/08/2018	Diver FW4	PCL	18:15	21:15	03:00	Light shower, Wind SW 3-4, Cloud cover 8, Visibility 1-3km, Temp 15c
13/08/2018	Diver FW5	YBR	18:00	21:00	03:00	Dry, Wind SE 1-2, Cloud cover 6-8, Visibility >3km, Temp 14-16c



Date	FW Location	Surveyor	Start	Finish	Duration	Weather Summary
14/08/2018	Diver FW1	YBR	05:50	08:50	03:00	Dry, Wind SE 1-2, Cloud cover 8 Visibility >3km, Temp 13-14c
14/08/2018	Diver FW2	PCL	18:15	21:15	03:00	Light shower, Wind SW 4, Cloud cover 8, Visibility 1-3km, Temp 11-13c
15/08/2018	Diver FW5	PCL	05:55	08:55	03:00	Light shower, Wind SW 1-3, Cloud Cover 8-7, Visibility >3km, Temp 13c
15/08/2018	Diver FW4	YBR	05:40	08:40	03:00	Dry, Wind SW 2-3, Cloud cover 8-7, Visibility >3km, Temp 13-14c
16/08/2018	Diver FW2	YBR	06:00	09:00	03:00	Dry, Wind SW 1-2 Cloud cover 2-6 Visibility >3km, Temp 12-13c
16/08/2018	Diver FW1	PCL	06:15	09:15	03:00	Light showers, Wind SW 1-3, Cloud cover 4-7, Visibility >3km, Temp 11-12c
22/08/2018	Diver FW2	PRO	18:10	21:10	03:00	Light to heavy showers, Wind SW 4, Cloud Cover 8, Visibility >3km to 1-3km, Temp 13-11c



# Annex D

## Flight Data



## D.1 VP Flight Data

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0001	3	HH	1	A	105	Adult male lost to view in plantation.	10/04/2018	12:58	1151.349	105
BS_SW_0002_a	3	HH	1	A	45	Female following path of earlier male (_001)	10/04/2018	13:03	463.22	45
BS_SW_0002_b	3	HH	1	B	30		10/04/2018	13:03	121.979	30
BS_SW_0002_c	3	HH	1	A	30		10/04/2018	13:03	601.842	30
BS_SW_0003_a	3	HH	2	A	15	Male skydancing in presence of female.	10/04/2018	13:10	146.02	30
BS_SW_0003_b	3	HH	2	B	165	Male skydancing in presence of female.	10/04/2018	13:10	575.292	330
BS_SW_0003_c	3	HH	2	C	45	Male skydancing in presence of female.	10/04/2018	13:10	157.797	90
BS_SW_0003_d	3	HH	2	B	45	Male skydancing in presence of female.	10/04/2018	13:10	566.973	90
BS_SW_0003_e	3	HH	2	A	15	Male skydancing in presence of female.	10/04/2018	13:10	34.262	30
BS_SW_0005_a	3	HH	1	A	30	Male skydancing over moor into plantation.	10/04/2018	13:35	123.149	30
BS_SW_0005_b	3	HH	1	B	90		10/04/2018	13:35	1126.694	90
BS_SW_0005_c	3	HH	1	A	30		10/04/2018	13:35	248.546	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0006	3	HH	2	A	105	Pair flying low around plantation.	10/04/2018	13:40	728.825	210
BS_SW_0007_a	3	NX	1	B	135	Mobbed by GB during soaring flight over moor.	10/04/2018	13:45	2051.913	135
BS_SW_0007_b	3	NX	1	C	45		10/04/2018	13:45	533.309	45
BS_SW_0008_a	3	HH	2	A	90	Pair in flight together over and amongst plantation.	10/04/2018	14:00	280.8	180
BS_SW_0008_b	3	HH	2	B	30		10/04/2018	14:00	106.657	60
BS_SW_0008_c	3	HH	2	A	60		10/04/2018	14:00	486.095	120
BS_SW_0009	3	HH	1	B	165	Soaring flight over moor.	10/04/2018	14:15	1922.417	165
BS_SW_0010	3	HH	1	A	45	Adult male. Brief low flight around heather.	10/04/2018	14:30	192.908	45
BS_SW_0011_a	3	HH	1	C	45	Ringtail. Soaring flight over moor then down into plantation.	10/04/2018	14:55	214.885	45
BS_SW_0011_b	3	HH	1	B	45		10/04/2018	14:55	698.695	45
BS_SW_0011_c	3	HH	1	C	15		10/04/2018	14:55	127.989	15
BS_SW_0011_d	3	HH	1	B	90		10/04/2018	14:55	3028.745	90
BS_SW_0011_e	3	HH	1	A	30		10/04/2018	14:55	788.382	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0012_a	3	HH	1	A	30	Ringtail.	10/04/2018	15:40	206.854	30
BS_SW_0012_b	3	HH	1	B	90		10/04/2018	15:40	1541.177	90
BS_SW_0012_c	3	HH	1	A	15		10/04/2018	15:40	273.764	15
BS_SW_0013_a	3	HH	1	A	60	Ringtail. Different individual to flight_012.	10/04/2018	15:42	1293.338	60
BS_SW_0013_b	3	HH	1	B	45		10/04/2018	15:42	465.72	45
BS_SW_0014_a	3	HH	1	A	75	Ringtail. Possibly a juvenile male (on structure).	10/04/2018	15:45	832.37	75
BS_SW_0014_b	3	HH	1	B	45		10/04/2018	15:45	830.427	45
BS_SW_0014_c	3	HH	1	A	120		10/04/2018	15:45	1611.907	120
BS_SW_0015_a	5	EA	1	B	105	Adult. Soaring & display. Diving/rollercoaster flight onto crag, outwith VS.	10/04/2018	17:15	654.515	105
BS_SW_0015_b	5	EA	1	A	30		10/04/2018	17:15	286.394	30
BS_SW_0016_a	5	EA	2	B	105	Adults. Much activity noted outwith VS.	10/04/2018	17:25	623.413	210
BS_SW_0016_b	5	EA	2	C	30		10/04/2018	17:25	64.335	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0017	5	HH	1	A	105	Adult male hunting.	10/04/2018	17:35	1138.564	105
BS_SW_0018_a	5	EA	3	A	30	Pair on crag chased third adult off to southeast.	10/04/2018	17:40	115.995	90
BS_SW_0018_b	5	EA	3	B	105		10/04/2018	17:40	895.795	315
BS_SW_0019	5	EA	2	B	150	Adults. Interacting. Talon-grappling.	10/04/2018	17:50	852.6	300
BS_SW_0020_a	5	EA	1	B	75	Adult lost low to northeast.	10/04/2018	18:25	690.225	75
BS_SW_0020_b	5	EA	1	A	15		10/04/2018	18:25	173.683	15
BS_SW_0021	5	EA	1	A	30	Sub-adult. Perched with 2xRN for 10 mins then flew off low northwest, mobbed by 2xRN.	10/04/2018	18:58	298.727	30
BS_SW_0026	3	NX	1	A	30	Sitting on moor for 5 mins before flying low, east.	25/04/2018	17:30	255.347	30
BS_SW_0027_a	3	NX	1	A	45	Holding into breeze.	25/04/2018	17:37	442.691	45
BS_SW_0027_b	3	NX	1	B	105		25/04/2018	17:37	1195.36	105
BS_SW_0028	3	HH	2	A	165	Pair circling low over probable nesting area.	25/04/2018	17:38	664.151	330
BS_SW_0029	3	GJ	3	A	60		25/04/2018	17:39	2021.844	180



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0030_a	3	NX	1	A	30		25/04/2018	18:02	651.8	30
BS_SW_0030_b	3	NX	1	B	45		25/04/2018	18:02	744.102	45
BS_SW_0031_a	3	ML	1	B	60	Probable male (on structure). Mobbed by HG until lost from view near plantation.	25/04/2018	18:08	1145.228	60
BS_SW_0031_b	3	ML	1	A	15		25/04/2018	18:08	353.258	15
BS_SW_0032	3	GJ	3	A	45		25/04/2018	18:20	934.939	135
BS_SW_0033_a	3	HH	1	A	135	Female. Brief soaring flight. Low over middle and west of plantation.	25/04/2018	18:40	1125.055	135
BS_SW_0033_b	3	HH	1	B	45		25/04/2018	18:40	265.506	45
BS_SW_0033_c	3	HH	1	A	120		25/04/2018	18:40	304.885	120
BS_SW_0034	3	HH	1	A	360	Male interacting with female (BS_SW_033). Landed out of view.	25/04/2018	18:41	771.874	360
BS_SW_0035	3	NX	1	A	60	Lost from view. Probably landed on moor.	25/04/2018	18:50	633.065	60
BS_SW_0036_a	3	NX	1	A	30	Around probable nesting area.	25/04/2018	19:03	430.873	30
BS_SW_0036_b	3	NX	1	B	105		25/04/2018	19:03	229.602	105

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0036_c	3	NX	1	C	30		25/04/2018	19:03	526.838	30
BS_SW_0037	3	NX	2	A	75	Landed.	25/04/2018	19:03	735.341	150
BS_SW_0038	3	HH	1	A	105	Male, hunting.	25/04/2018	19:05	423.522	105
BS_SW_0039	3	GJ	5	A	75		25/04/2018	19:06	690.266	375
BS_SW_0040_a	3	HH	2	A	30	Males interacting around turbines.	25/04/2018	19:16	165.913	60
BS_SW_0040_b	3	HH	2	B	115		25/04/2018	19:16	1410.101	230
BS_SW_0041	3	HH	1	A	45	BS_SW_040 males split into two separate directions.	25/04/2018	19:18	265.91	45
BS_SW_0042	3	HH	1	A	45	BS_SW_040 males split into two separate directions.	25/04/2018	19:18	632.036	45
BS_SW_0043_a	3	NX	1	A	30	Brief soaring flight on edge of moor.	25/04/2018	19:25	260.907	30
BS_SW_0043_b	3	NX	1	B	45		25/04/2018	19:25	205.809	45
BS_SW_0043_c	3	NX	1	A	15		25/04/2018	19:25	86.829	15
BS_SW_0044	3	NX	2	A	75	Pair flying towards nesting area on southern edge of moor.	25/04/2018	19:56	588.444	150
BS_SW_0045_a	3	GJ	4	A	45	Heading downwind past VP.	25/04/2018	20:11	220.157	180

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0045_b	3	GJ	4	B	30		25/04/2018	20:11	589.853	120
BS_SW_0045_c	3	GJ	4	A	15		25/04/2018	20:11	316.308	60
BS_SW_0046	6	HH	1	A	150	Adult male. Hunting. Lost from view behind plantation.	26/04/2018	06:40	892.423	150
BS_SW_0047	6	HH	1	A	105	Ringtail. Hunting.	26/04/2018	06:48	797.647	105
BS_SW_0048_a	6	RH	1	B	45	Calling. Appeared to land on lochan. Sang from here 07:45-08:15.	26/04/2018	07:26	950.945	45
BS_SW_0048_b	6	RH	1	A	15		26/04/2018	07:26	361.454	15
BS_SW_0049	6	HH	1	A	60	Ringtail (prob. female).	26/04/2018	07:35	608.78	60
BS_SW_0050_a	6	HH	1	A	30	Adult male, lost from view in sun.	26/04/2018	08:29	471.22	30
BS_SW_0050_b	6	HH	1	B	60		26/04/2018	08:29	908.868	60
BS_SW_0051_a	6	GK	2	A	15	Calling. Display flight. Followed by BS_SW_052.	26/04/2018	09:16	104.807	30
BS_SW_0051_b	6	GK	2	B	15		26/04/2018	09:16	202.046	30
BS_SW_0051_c	6	GK	2	A	15		26/04/2018	09:16	73.385	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0052_a	6	GK	1	A	45	Followed BS_SW_051. Low and slow display flight.	26/04/2018	09:17	180.684	45
BS_SW_0052_b	6	GK	1	B	15		26/04/2018	09:17	81.633	15
BS_SW_0053	8	NX	1	A	30		26/04/2018	12:34	693.814	30
BS_SW_0054	8	EA	1	A	45	Adult. Landed on edge of loch for 180 seconds. Mobbed by 2xRN.	26/04/2018	12:35	184.248	45
BS_SW_0055_a	8	EA	1	A	60	Same bird as BS_SW_054. Flew off south, mobbed by RN until lost from view.	26/04/2018	12:38	997.559	60
BS_SW_0055_b	8	EA	1	B	135		26/04/2018	12:38	1500.526	135
BS_SW_0055_c	8	EA	1	C	120		26/04/2018	12:38	2029.364	120
BS_SW_0056_a	8	EA	1	B	135	Immature (1CY), mobbed by 2xRN.	26/04/2018	14:40	3063.661	135
BS_SW_0056_b	8	EA	1	A	60		26/04/2018	14:40	631.676	60
BS_SW_0057_a	8	BV	1	B	60		26/04/2018	15:09	1471.107	60
BS_SW_0057_b	8	BV	1	A	15		26/04/2018	15:09	126.806	15
BS_SW_0058	5	GJ	2	A	60	Flew from hidden spot in plantation.	27/04/2018	06:40	471.959	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0059_a	5	HH	1	A	15	Adult male mobbed by HC flock to ground, where perched for 15 mins.	27/04/2018	07:28	212.586	15
BS_SW_0059_b	5	HH	1	B	45		27/04/2018	07:28	561.027	45
BS_SW_0059_c	5	HH	1	C	30		27/04/2018	07:28	270.33	30
BS_SW_0060_a	5	HH	1	A	30	Same bird as BS_SW_059. Mobbed by 2xCM & HG. Lost to view behind plantation.	27/04/2018	07:44	204.706	30
BS_SW_0060_b	5	HH	1	B	30		27/04/2018	07:44	296.455	30
BS_SW_0060_c	5	HH	1	C	15		27/04/2018	07:44	247.66	15
BS_SW_0061_a	5	HH	1	A	45	Ringtail (probable 1CY male on structure).	27/04/2018	08:04	611.954	45
BS_SW_0061_b	5	HH	1	B	15		27/04/2018	08:04	585.048	15
BS_SW_0061_c	5	HH	1	A	30		27/04/2018	08:04	368.382	30
BS_SW_0062_a	5	HH	1	A	30	Ringtail skydancing over edge of plantation. Probably same bird as BS_SW_061.	27/04/2018	08:15	213.67	30
BS_SW_0062_b	5	HH	1	B	30		27/04/2018	08:15	120.233	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0062_c	5	HH	1	A	15		27/04/2018	08:15	177.615	15
BS_SW_0063	5	GJ	6	A	60	Flew from hidden spot on moor.	27/04/2018	08:25	918.044	360
BS_SW_0064_a	5	NX	1	A	45	Slow and direct flight.	27/04/2018	08:45	408.031	45
BS_SW_0064_b	5	NX	1	B	60		27/04/2018	08:45	1200.294	60
BS_SW_0065	5	NX	1	B	45		27/04/2018	08:46	621.536	45
BS_SW_0066_a	5	GK	1	A	15	Calling then slow display flight.	27/04/2018	08:58	207.052	15
BS_SW_0066_b	5	GK	1	B	45		27/04/2018	08:58	1236.649	45
BS_SW_0067_a	5	GJ	1	A	30	Flew from hidden spot amongst trees.	27/04/2018	09:00	263.49	30
BS_SW_0067_b	5	GJ	1	B	30		27/04/2018	09:00	201.725	30
BS_SW_0068	5	GK	1	B	45	Display flight. Calling around / behind VP (08:30-09:20 from at least two birds).	27/04/2018	09:11	541.723	45
BS_SW_0069_a	5	HH	1	A	15	Ringtail interacting with BS_SW_061. Both birds lost to view in plantation.	27/04/2018	08:04	260.484	15
BS_SW_0069_b	5	HH	1	B	15		27/04/2018	08:04	239.619	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0069_c	5	HH	1	A	30		27/04/2018	08:04	242.387	30
BS_SW_0070_a	4	NX	1	B	105	Soaring flight over moor.	27/04/2018	12:25	970.589	105
BS_SW_0070_b	4	NX	1	A	15		27/04/2018	12:25	78.666	15
BS_SW_0071	4	HH	1	A	30	Ringtail. Brief, low flight.	27/04/2018	12:40	266.722	30
BS_SW_0072_a	4	NX	2	B	135	Circling up high. Lost from view in sun.	27/04/2018	13:15	1511.815	270
BS_SW_0072_b	4	NX	2	C	90		27/04/2018	13:15	1164.84	180
BS_SW_0073	4	NX	1	B	75	Direct level flight.	27/04/2018	14:55	1240.953	75
BS_SW_0074	7	GJ	5	A	60	Flew from hidden spot on loch and lost in plantation.	28/04/2018	06:14	1558.437	300
BS_SW_0075	7	HH	1	A	135	Adult male. Hunting. Landed on fencepost outwith viewshed then out of view to northeast.	28/04/2018	06:45	1514.988	135
BS_SW_0076_a	7	BV	2	B	60	Some interaction on Loch a Bhuna, then fishing. Not in full breeding plumage.	28/04/2018	07:04	1822.081	120
BS_SW_0076_b	7	BV	2	A	30		28/04/2018	07:04	1288.473	60



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0077	7	BV	2	A	15	Same birds as BS_SW_076. Flew through valley towards next loch.	28/04/2018	07:35	390.423	30
BS_SW_0078	7	HH	1	A	60	Probably same male as BS_SW_075. Lost from view.	28/04/2018	07:36	425.426	60
BS_SW_0079	7	HH	1	A	90	Same male as BS_SW_078. Flew low around heather bank, bringing in nesting material. Lost to view.	28/04/2018	08:04	507.088	90
BS_SW_0080_a	7	NX	1	B	45	Direct flight.	28/04/2018	08:48	1424.326	45
BS_SW_0080_b	7	NX	1	A	45		28/04/2018	08:48	867.073	45
BS_SW_0081	7	GJ	1	A	60	Low flight from hidden spot. Lost from view in plantation.	28/04/2018	09:02	1183.315	60
BS_SW_0082	2	GK	1	B	90	Display flight. Calling.	28/04/2018	17:34	2523.197	90
BS_SW_0083	6	HH	1	A	90	Adult male. Low, direct flight, lost behind plantation.	29/04/2018	17:45	949.603	90
BS_SW_0084	3	GJ	2	A	45	From roost behind VP.	30/04/2018	06:10	1327.173	90
BS_SW_0085	3	NX	1	A	30	Landed out of view on moor.	30/04/2018	06:42	409.619	30
BS_SW_0086	3	NX	2	A	60	Around edge of moor, then landed.	30/04/2018	06:55	788.31	120
BS_SW_0087	3	T.	1	A	30	Landed out of view.	30/04/2018	07:00	393.482	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0088_a	3	GJ	1	B	30		30/04/2018	07:03	529.002	30
BS_SW_0088_b	3	GJ	1	A	15		30/04/2018	07:03	350.295	15
BS_SW_0089	3	NX	3	A	45	Chasing each other, then landed.	30/04/2018	07:28	752.751	135
BS_SW_0090	3	HH	1	A	75	Adult male landed in tree and then into heather.	30/04/2018	07:34	707.887	75
BS_SW_0091	3	NX	4	A	75	Two pairs, split at end of low display flight and landed on moor.	30/04/2018	07:46	1308.618	300
BS_SW_0092	3	HH	1	A	30	Adult male.	30/04/2018	07:51	304.868	30
BS_SW_0093	3	GJ	3	B	60	Slow flight.	30/04/2018	08:09	1249.159	180
BS_SW_0094_a	3	HH	1	B	120	Adult female landed near quarry. Arrived with BS_SW_095.	30/04/2018	08:25	2238.496	120
BS_SW_0094_b	3	HH	1	A	45		30/04/2018	08:25	1795.093	45
BS_SW_0095	3	HH	1	B	210	Immature male. Arrived with BS_SW_094. Slow soaring flight and lost to east.	30/04/2018	08:25	2887.152	210
BS_SW_0096	3	HH	1	B	120	Immature male. Skydancing out of viewshed and out of sight.	30/04/2018	08:45	1504.341	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0097_a	3	HH	1	B	30	Adult female. Flew out of plantation, across moor and lost from view behind wind farm.	30/04/2018	08:49	501.54	30
BS_SW_0097_b	3	HH	1	A	135		30/04/2018	08:49	1267.27	135
BS_SW_0098	3	HH	1	A	60	Female. Probably different to BS_SW_097. Chased RN then landed in heather.	30/04/2018	09:00	714.085	60
BS_SW_0099	3	NX	1	A	30	Flew into probable nesting area.	30/04/2018	09:01	304.559	30
BS_SW_0100	3	GJ	3	A	60		30/04/2018	09:04	1336.877	180
BS_SW_0101	4	NX	1	A	15	Flew into gull colony.	30/04/2018	17:01	363.598	15
BS_SW_0102	4	NX	1	A	15	Flew over ridge. Same bird as BS_SW_101.	30/04/2018	17:22	276.394	15
BS_SW_0103	4	GJ	2	A	15	Landed out of view.	30/04/2018	17:24	350.265	30
BS_SW_0104_a	4	NX	2	A	45	Soaring flight then lost low behind mound.	30/04/2018	17:50	482.742	90
BS_SW_0104_b	4	NX	2	B	60		30/04/2018	17:50	1792.922	120
BS_SW_0104_c	4	NX	2	A	15		30/04/2018	17:50	289.843	30
BS_SW_0105_a	4	NX	2	A	30	Chasing HG then both lost from view behind plantation.	30/04/2018	18:16	917.776	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0105_b	4	NX	2	B	60		30/04/2018	18:16	221.039	120
BS_SW_0105_c	4	NX	2	A	30		30/04/2018	18:16	872.161	60
BS_SW_0106	4	GJ	3	A	60	Flew from behind mound.	30/04/2018	18:50	603.988	180
BS_SW_0107	4	NX	1	A	30	Landed on mound.	30/04/2018	19:35	275.703	30
BS_SW_0108_a	2	GP	1	B	45	Display flight, slowly flying in to wind.	01/05/2018	07:28	252.165	45
BS_SW_0108_b	2	GP	1	C	90		01/05/2018	07:28	359.491	90
BS_SW_0108_c	2	GP	1	B	30		01/05/2018	07:28	585.426	30
BS_SW_0108_d	2	GP	1	A	15		01/05/2018	07:28	188.799	15
BS_SW_0109	2	EA	1	A	45	Immature (3CY). Flight hugged side of Meannan, below VP.	01/05/2018	07:50	762.856	45
BS_SW_0110_a	2	EA	1	A	45	Same bird as BS_SW_109. Hanging stationary, facing into wind. Lost to view around side of hill.	01/05/2018	07:55	164.159	45
BS_SW_0110_b	2	EA	1	B	60		01/05/2018	07:55	583.213	60
BS_SW_0111_a	2	BW	5	C	30	Flew downwind.	01/05/2018	08:10	530.188	150

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0111_b	2	BW	5	B	15		01/05/2018	08:10	202.337	75
BS_SW_0112	2	ML	1	A	45	Female. Briefly hung in wind. Lost from view around hill.	01/05/2018	08:42	273.412	45
BS_SW_0113	5	GJ	3	A	30	Lost amongst plantation.	02/05/2018	06:05	313.732	90
BS_SW_0114_a	5	GJ	1	B	30	Lost behind ridge.	02/05/2018	06:06	271.542	30
BS_SW_0114_b	5	GJ	1	A	15		02/05/2018	06:06	153.134	15
BS_SW_0115	5	GJ	2	A	60	Lost over ridge after coming off loch.	02/05/2018	06:15	1322.749	120
BS_SW_0116	5	GJ	1	A	30	Lost amongst plantation after coming off loch.	02/05/2018	06:46	479.012	30
BS_SW_0117	5	GJ	2	A	45	Landed on loch.	02/05/2018	06:48	389.133	90
BS_SW_0118	5	GJ	2	A	60	Flew behind VP.	02/05/2018	07:22	1102.848	120
BS_SW_0119_a	5	GK	1	B	60	Display flight.	02/05/2018	07:23	295.628	60
BS_SW_0119_b	5	GK	1	A	15		02/05/2018	07:23	113.538	15
BS_SW_0120	5	HH	1	A	45	Adult male. Lost from view.	02/05/2018	07:34	384.93	45
BS_SW_0121	5	GJ	5	A	60	Flew from loch area.	02/05/2018	07:58	808.923	300

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0122	5	GJ	3	A	45	Lost from view at far end of loch.	02/05/2018	08:10	761.336	135
BS_SW_0123	5	GK	2	B	45	Lost behind VP.	02/05/2018	08:18	819.908	90
BS_SW_0124_a	5	HH	1	A	30	Adult male. Soaring and circling. Lost from view in plantation.	02/05/2018	08:30	286.192	30
BS_SW_0124_b	5	HH	1	B	180		02/05/2018	08:30	3535.83	180
BS_SW_0124_c	5	HH	1	A	30		02/05/2018	08:30	324.938	30
BS_SW_0125	5	GJ	3	A	45	Lost from view.	02/05/2018	08:35	862.576	135
BS_SW_0126	2	EA	1	A	90	Immature. Mobbed by 5xRN. Lost from view behind mound.	02/05/2018	10:50	2910.795	90
BS_SW_0127_a	2	EA	1	A	45	Same bird as BS_SW_126. Mobbed by 6xRN. Circling, soaring flight. Lost to view out of viewshed.	02/05/2018	11:30	623.672	45
BS_SW_0127_b	2	EA	1	B	180		02/05/2018	11:30	3297.91	180
BS_SW_0128_a	2	EA	1	B	180	Adult. High, circling flight; hanging in the wind. Lost to northwest.	02/05/2018	12:54	1293.158	180
BS_SW_0128_b	2	EA	1	C	90		02/05/2018	12:54	2075.073	90
BS_SW_0128_c	2	EA	1	D	270		02/05/2018	12:54	3948.915	270

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0129	2	EA	1	D	180	Probable adult joined BS_SW_128. Lost to view, high to northwest.	02/05/2018	12:57	2914.619	180
BS_SW_0130	8	NX	1	A	45	Chasing 5xGB off loch.	03/05/2018	14:10	800.807	45
BS_SW_0131	8	NX	1	A	45		03/05/2018	14:16	863.415	45
BS_SW_0132_a	8	NX	1	A	105	Lost behind VP.	03/05/2018	14:25	3082.789	105
BS_SW_0132_b	8	NX	1	B	15		03/05/2018	14:25	352.124	15
BS_SW_0132_c	8	NX	1	A	15		03/05/2018	14:25	279.077	15
BS_SW_0133	8	NX	1	A	30	Landed on loch after brief interaction with GB on bank.	03/05/2018	14:35	717.513	30
BS_SW_0134	8	NX	1	A	30	Flew off loch south.	03/05/2018	14:36	373.192	30
BS_SW_0135_a	6	GK	1	A	30	Calling during flight.	12/05/2018	18:15	133.105	30
BS_SW_0135_b	6	GK	1	B	30		12/05/2018	18:15	228.499	30
BS_SW_0135_c	6	GK	1	A	15		12/05/2018	18:15	169.657	15
BS_SW_0136	6	GK	1	A	15	Landed on dilapidated croft.	12/05/2018	18:55	122.106	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0137	6	GK	1	A	15	Different bird to BS_SW_136 landed on croft.	12/05/2018	18:57	167.803	15
BS_SW_0138	6	GK	2	A	45	Both birds flew off croft, calling. Lost behind ridge.	12/05/2018	19:01	479.473	90
BS_SW_0139_a	3	HH	1	B	45	Adult male lost from view in sun. Possibly carrying prey.	12/05/2018	16:32	476.146	45
BS_SW_0139_b	3	HH	1	C	60		12/05/2018	16:32	255.624	60
BS_SW_0140	3	HH	1	A	60	Adult male. Same bird as BS_SW_139. Possibly carrying prey.	12/05/2018	16:37	890.608	60
BS_SW_0141	3	HH	1	A	75	Adult male. Same bird as BS_SW_139. Possibly carrying prey.	12/05/2018	16:39	877.616	75
BS_SW_0142	3	NX	1	B	30	Lost in dip.	12/05/2018	16:52	415.085	30
BS_SW_0143	3	NX	1	A	30		12/05/2018	16:53	159.571	30
BS_SW_0144_a	3	NX	1	B	75	Left viewshed.	12/05/2018	17:32	1540.27	75
BS_SW_0144_b	3	NX	1	C	15		12/05/2018	17:32	310.523	15
BS_SW_0145	3	NX	1	A	15	Lost in dip. Presume landed.	12/05/2018	17:41	213.145	15
BS_SW_0146	3	GJ	4	B	15	Left viewshed.	12/05/2018	17:50	248.382	60
BS_SW_0147	3	NX	2	A	15		12/05/2018	17:58	271.401	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0148	3	NX	1	A	15	Landed to mate with perched bird. Second pair in area.	12/05/2018	18:03	163.826	15
BS_SW_0149	3	NX	1	A	45	Landed. Minimum of 5xNX in area.	12/05/2018	18:07	657.236	45
BS_SW_0150	3	NX	1	A	15	Left viewshed.	12/05/2018	18:08	191.813	15
BS_SW_0151	3	GJ	1	A	90	Lost in trees.	12/05/2018	18:09	1795.673	90
BS_SW_0152	3	GJ	1	A	60	Calling. Landed on lochan.	12/05/2018	18:18	753.325	60
BS_SW_0153	3	GJ	2	A	60	Lost from view behind hillock.	12/05/2018	18:22	1257.853	120
BS_SW_0154_a	3	RH	2	C	90	Lost from view. Presume landed on Loch a Chlachain.	12/05/2018	18:41	2615.52	180
BS_SW_0154_b	3	RH	2	B	30		12/05/2018	18:41	1226.2	60
BS_SW_0155	3	GJ	1	B	15	Lost from view in valley.	12/05/2018	18:46	315.848	15
BS_SW_0156	3	GJ	1	A	15	Presume landed - lost from view.	12/05/2018	18:47	192.925	15
BS_SW_0157	3	NX	1	B	30	Lost from view in valley.	12/05/2018	18:51	593.98	30
BS_SW_0158	3	NX	1	A	30	Landed next to mate. Started courtship ritual.	12/05/2018	19:00	281.243	30
BS_SW_0159	3	EA	1	B	120	Mobbed by 4xGB. Probable adult. Lost in dip.	12/05/2018	19:13	1346.563	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0161_a	7	EA	1	B	180	Probable adult male. Hunting. Lost from view in dip. Only 30 secs of flight time in viewshed.	15/05/2018	16:48	3164.074	180
BS_SW_0161_b	7	EA	1	A	90		15/05/2018	16:48	682.547	90
BS_SW_0162	6	EA	1	D	180	Immature (1CY). Circling high and rising until lost to south.	07/06/2018	15:46	4531.476	180
BS_SW_0163	6	EA	1	A	15	Potentially same bird as BS_SW_162. Landed on grass below cairn. Walked around on ground for 120s.	07/06/2018	16:31	50.271	15
BS_SW_0164_a	6	EA	1	A	45	Flew from cairn, contoured slope & returned at 16:37. Stayed til end of survey.	07/06/2018	16:33	115.784	45
BS_SW_0164_b	6	EA	1	B	60		07/06/2018	16:33	357.012	60
BS_SW_0164_c	6	EA	1	A	60		07/06/2018	16:33	149.56	60
BS_SW_0164_d	6	EA	1	B	30		07/06/2018	16:33	95.737	30
BS_SW_0164_e	6	EA	1	A	45		07/06/2018	16:33	136.418	45
BS_SW_0165_a	6	NX	1	C	30	Lost to south.	07/06/2018	17:06	764.965	30
BS_SW_0165_b	6	NX	1	D	60		07/06/2018	17:06	1361.675	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0166	2	GK	1	C	75		07/06/2018	15:04	2120.831	75
BS_SW_0167	2	NX	1	C	60		07/06/2018	16:10	2132.515	60
BS_SW_0168_a	2	GP	1	B	45	Landed close to loch.	07/06/2018	16:25	487.582	45
BS_SW_0168_b	2	GP	1	A	30		07/06/2018	16:25	246.624	30
BS_SW_0169	2	NX	2	D	135	Soaring.	07/06/2018	17:05	3218.936	270
BS_SW_0170_a	2	NX	3	C	120	Soaring (outwith viewshed).	07/06/2018	17:10	3570.451	360
BS_SW_0170_b	2	NX	3	D	240		07/06/2018	17:10	6406.162	720
BS_SW_0171_a	8	EA	1	A	45	Adult. Low circling flight, then soaring with some display before lost from view, high to north.	10/06/2018	11:03	1145.987	45
BS_SW_0171_b	8	EA	1	B	90		10/06/2018	11:03	2922.104	90
BS_SW_0171_c	8	EA	1	C	150		10/06/2018	11:03	2670.307	150
BS_SW_0171_d	8	EA	1	D	90		10/06/2018	11:03	5539.174	90
BS_SW_0172	8	CN	2	A	45	Calling.	10/06/2018	12:36	990.463	90

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0173_a	8	CN	21	A	15	Flock from Loch a Chlachain interacting over moor.	10/06/2018	12:39	258.047	315
BS_SW_0173_b	8	CN	21	B	105		10/06/2018	12:39	987.105	2205
BS_SW_0173_c	8	CN	21	A	30		10/06/2018	12:39	520.673	630
BS_SW_0174_a	8	NX	1	B	135	Soaring flight. Lost at low height.	10/06/2018	13:15	2365.03	135
BS_SW_0174_b	8	NX	1	A	30		10/06/2018	13:15	344.649	30
BS_SW_0175	8	GP	2	B	60	Looping display flight.	10/06/2018	13:29	1287.565	120
BS_SW_0176_a	8	HH	1	C	135	Female. Soaring flight, til lost from view.	10/06/2018	13:30	4267.328	135
BS_SW_0176_b	8	HH	1	D	30		10/06/2018	13:30	521.486	30
BS_SW_0177_a	8	HH	1	B	75	Adult male. Soaring flight. Lost high to northeast.	10/06/2018	13:34	534.847	75
BS_SW_0177_b	8	HH	1	C	180		10/06/2018	13:34	3579.573	180
BS_SW_0177_c	8	HH	1	D	90		10/06/2018	13:34	1071.62	90
BS_SW_0178_a	8	NX	1	B	135	Soaring flight. Lost at low height.	10/06/2018	13:42	2054.95	135
BS_SW_0178_b	8	NX	1	A	15		10/06/2018	13:42	317.644	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0179	3	RH	1	B	30	Calling.	24/05/2018	05:14	2269.585	30
BS_SW_0180_a	3	NX	1	B	90		24/05/2018	05:25	2358.801	90
BS_SW_0180_b	3	NX	1	A	15		24/05/2018	05:25	306.188	15
BS_SW_0181_a	3	NX	1	A	15		24/05/2018	05:25	165.259	15
BS_SW_0181_b	3	NX	1	B	30		24/05/2018	05:25	1860.506	30
BS_SW_0181_c	3	NX	1	A	15		24/05/2018	05:25	525.976	15
BS_SW_0182_a	3	NX	1	A	15		24/05/2018	05:26	1617.799	15
BS_SW_0182_b	3	NX	1	B	15		24/05/2018	05:26	469.14	15
BS_SW_0183	3	NX	1	A	15		24/05/2018	05:28	616.742	15
BS_SW_0184	3	GJ	2	A	30	Pair.	24/05/2018	05:29	880.893	60
BS_SW_0185	3	NX	3	A	45	Displaying.	24/05/2018	05:34	989.914	135
BS_SW_0186	3	NX	1	A	45		24/05/2018	05:36	735.214	45
BS_SW_0187	3	BV	1	B	60		24/05/2018	05:37	2856.626	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0188_a	3	NX	1	A	15		24/05/2018	05:40	568.952	15
BS_SW_0188_b	3	NX	1	B	15		24/05/2018	05:40	512.573	15
BS_SW_0189	3	GJ	2	A	15	Took off from moor.	24/05/2018	05:41	673.402	30
BS_SW_0190	3	NX	1	B	15		24/05/2018	05:43	732.479	15
BS_SW_0191	3	NX	1	A	15		24/05/2018	05:43	516.385	15
BS_SW_0192	3	T.	1	B	45		24/05/2018	05:46	916.561	45
BS_SW_0193	3	GJ	2	A	30	Lost to view.	24/05/2018	05:53	701.345	60
BS_SW_0194	3	NX	1	A	30	Landed and displayed to mate.	24/05/2018	06:16	1170.783	30
BS_SW_0195	3	GJ	1	A	30		24/05/2018	06:17	463.355	30
BS_SW_0196	3	SE	1	A	270	Quartering rough grassland.	24/05/2018	06:30	3795.285	270
BS_SW_0197	3	NX	2	A	60	Display.	24/05/2018	06:40	1698.332	120
BS_SW_0198	3	NX	2	A	75	Pair chasing / displaying.	24/05/2018	06:45	351.434	150
BS_SW_0199	3	NX	2	A	60	Another pair lifted and displayed.	24/05/2018	06:45	367.557	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0200	3	NX	2	A	60	Another pair lifted and displayed. Now three pairs.	24/05/2018	06:45	201.12	120
BS_SW_0201	3	NX	7	A	45	Another adult joined displaying flock.	24/05/2018	06:45	1283.757	315
BS_SW_0202	3	NX	1	A	15		24/05/2018	06:46	1222.28	15
BS_SW_0203	3	GJ	2	A	30	Took off and landed within plantation.	24/05/2018	07:24	294.227	60
BS_SW_0204_a	3	NX	1	B	30	Landed on moor.	24/05/2018	07:31	868.514	30
BS_SW_0204_b	3	NX	1	A	15		24/05/2018	07:31	177.655	15
BS_SW_0205	3	GJ	2	A	30		24/05/2018	07:25	683.468	60
BS_SW_0206_a	3	NX	1	A	30		24/05/2018	08:04	447.924	30
BS_SW_0206_b	3	NX	1	B	15		24/05/2018	08:04	582.593	15
BS_SW_0207	1	NX	1	B	30	Lost behind hill.	24/05/2018	19:32	657.075	30
BS_SW_0208	1	GK	2	B	30	Displaying males.	24/05/2018	19:35	893.74	60
BS_SW_0209	1	DN	1	B	30	Displaying.	24/05/2018	19:36	872.617	30
BS_SW_0210	1	EA	1	B	60	Lost in dip.	24/05/2018	19:43	817.564	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0211	1	EA	1	A	30	Landed on far hills then flew down and out of sight.	24/05/2018	20:07	335.759	30
BS_SW_0212_a	1	NX	1	A	15		24/05/2018	20:21	159.191	15
BS_SW_0212_b	1	NX	1	B	30		24/05/2018	20:21	326.255	30
BS_SW_0213	1	RH	1	B	45		24/05/2018	20:22	2140.564	45
BS_SW_0214	1	BV	1	C	45	Calling.	24/05/2018	20:37	2326.555	45
BS_SW_0215_a	1	RH	1	A	15	Lost behind mound. Presumably landed on lochan.	24/05/2018	21:28	783.586	15
BS_SW_0215_b	1	RH	1	B	15		24/05/2018	21:28	234.392	15
BS_SW_0216	1	NX	1	A	15	Lost behind hill.	24/05/2018	21:26	264.703	15
BS_SW_0217	1	GP	1	B	30		24/05/2018	20:45	1228.021	30
BS_SW_0218	1	GP	1	B	30		24/05/2018	20:46	724.037	30
BS_SW_0219	1	GP	1	B	30		24/05/2018	20:55	725.992	30
BS_SW_0271	5	HH	1	A	120	Adult female hunting & lost from view.	21/06/2018	10:21	1210.924	120
BS_SW_0272_a	5	HH	1	B	30	Adult male	21/06/2018	10:42	470.684	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0272_b	5	HH	1	A	90	Adult male low around plantation and lost from view.	21/06/2018	10:42	1262.738	90
BS_SW_0273	5	HH	1	A	15	Adult female lost from view near nest area.	21/06/2018	10:58	218.568	15
BS_SW_0274	5	EA	1	B	45	Distant, couldn't age, lost to south.	21/06/2018	11:28	953.287	45
BS_SW_0275_a	5	BV	1	B	90	Direct flight, landed out of viewshed.	21/06/2018	12:40	2939.108	90
BS_SW_0275_b	5	BV	1	A	15	Lost height to land unseen & out of viewshed.	21/06/2018	12:40	232.402	15
BS_SW_0276_a	5	NX	1	C	45	Soaring flight.	21/06/2018	12:44	997.508	45
BS_SW_0276_b	5	NX	1	B	15	Lower towards plantation area.	21/06/2018	12:44	193.524	15
BS_SW_0276_c	5	NX	1	A	15	Lost from view low.	21/08/2018	12:44	293.715	15
BS_SW_0277_a	5	EA	1	C	60	Adult.	21/06/2018	13:00	676.592	60
BS_SW_0277_b	5	EA	1	B	30	Adult lost from view behind crag.	21/06/2018	13:00	103.453	30
BS_SW_0279_a	8	ML	1	A	30	Male with food, heading south.	23/06/2018	18:46	443.5	30
BS_SW_0279_b	8	ML	1	B	15	Male higher direct flight heading south.	23/06/2018	18:46	431.169	15
BS_SW_0280_a	8	ML	1	A	30	Female, following male.	23/06/2018	18:46	369.025	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0280_b	8	ML	1	B	45	Female, higher flight away from path of male towards the east.	23/06/2018	18:46	794.934	45
BS_SW_0281_a	8	CN	1	B	15		23/06/2018	18:48	254.044	15
BS_SW_0281_b	8	CN	1	A	30	Lost behind mound.	23/06/2018	18:48	176.711	30
BS_SW_0282_a	8	CN	1	B	30	Slow flight battling strong westerly.	23/06/2018	18:49	432.766	30
BS_SW_0282_b	8	CN	1	A	30		23/06/2018	18:49	900.005	30
BS_SW_0282_c	8	CN	1	B	150		23/06/2018	18:49	1100.702	150
BS_SW_0282_d	8	CN	1	A	15	Lost behind mound.	23/06/2018	18:49	130.543	15
BS_SW_0283_a	8	NX	5	B	60	All heading east.	23/06/2018	19:10	1390.566	300
BS_SW_0283_b	8	NX	5	A	15	All lost from view low.	23/06/2018	19:10	495.091	75
BS_SW_0284	8	NX	2	A	120	Both lost in swale.	23/06/2018	19:18	1977.367	240
BS_SW_0285	8	RH	1	C	120	Direct flight, lost from view to south out of viewshed.	23/06/2018	19:21	2569.421	120
BS_SW_0286	8	HH	1	A	105	Ringtail, likely 1CY male, hunting lost low over hummock.	23/06/2018	19:55	526.587	105
BS_SW_0287	8	NX	1	A	210	Chasing HC and "playing" in the strong wind.	23/06/2018	19:57	1915.425	210

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0288_a	8	HH	1	A	15	Ringtail, looked to be same 1CY male as earlier flight.	23/06/2018	20:00	132.714	15
BS_SW_0288_b	8	HH	1	B	30	Ringtail briefly higher flight over hill.	23/06/2018	20:00	217.264	30
BS_SW_0288_c	8	HH	1	A	30	Lost to view low to east.	23/06/2018	20:00	284.111	30
BS_SW_0289	8	CN	1	A	75	Lost in swale.	23/06/2018	20:03	1091.068	75
BS_SW_0290_a	8	CN	1	B	45	Direct flight into wind.	23/06/2018	21:18	532.515	45
BS_SW_0290_b	8	CN	1	A	30	Lost low behind swale.	23/06/2018	21:18	483.375	30
BS_SW_0291	8	CN	1	B	75	Fast flight downwind.	23/06/2018	21:19	1222.249	75
BS_SW_0292_a	8	HH	1	B	45	Adult female with food heading into nest.	23/06/2018	21:28	1262.333	45
BS_SW_0292_b	8	HH	1	A	45	Adult female into nest with food.	23/06/2018	21:28	606.545	45
BS_SW_0293	8	HH	1	A	30	Off nest and lost low into valley bottom.	23/06/2018	21:31	187.113	30
BS_SW_0294	8	CN	1	B	60	Fast downwind flight towards coast.	23/06/2018	21:33	1082.087	60
BS_SW_0295	8	CN	1	A	60	Lost from view in valley heading towards breeding loch.	23/06/2018	21:34	1054.85	60
BS_SW_0296_a	8	BV	1	B	30	Direct flight from north.	23/06/2018	21:38	888.679	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0296_b	8	BV	1	A	45	Landed out of view on Loch 100.	23/06/2018	21:38	795.177	45
BS_SW_0297	8	HH	1	A	105	Adult female hunting, lost from view behind mound.	23/06/2018	21:43	1133.166	105
BS_SW_0298_a	8	BV	1	B	15	Direct flight southwards towards VP.	27/06/2018	05:20	492.844	15
BS_SW_0298_b	8	BV	1	A	45	Landed on Loch (Airigh Riabhach) behind vp.	27/06/2018	05:20	651.456	45
BS_SW_0299	8	NX	1	A	45	Low past VP.	27/06/2018	05:30	1536.182	45
BS_SW_0300_a	8	CN	1	B	15		27/06/2018	05:45	133.763	15
BS_SW_0300_b	8	CN	1	A	90	Over loch t-Soluis then lost behind VP.	27/06/2018	05:45	1380.576	90
BS_SW_0301	8	HH	1	A	30	Adult male hunting low past VP.	27/06/2018	06:25	413.484	30
BS_SW_0302_a	8	HH	1	B	45	Adult male with food towards HHFW7 nest area.	27/06/2018	06:30	1613.777	45
BS_SW_0302_b	8	HH	1	A	30	Lost low in valley south of HHFW7 nest, not seen to go to nest.	27/06/2018	06:30	269.59	30
BS_SW_0303_a	1	RH	1	B	45	Gaining height heading east	11/06/2018	09:26	706.073	45
BS_SW_0303_b	1	RH	1	C	90		11/06/2018	09:26	1388.417	90
BS_SW_0304_a	1	EA	1	B	30	Immature	11/06/2018	11:55	418.044	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0304_b	1	EA	1	A	15	Landed	11/06/2018	11:55	175.33	15
BS_SW_0305_a	1	EA	1	A	15	Same imm. bird as flight ref 304, took off from ground	11/06/2018	11:56	282.098	15
BS_SW_0305_b	1	EA	1	B	120	Purposeful flight west and lost from view.	11/06/2018	11:56	1051.553	120
BS_SW_0306	1	RH	1	B	15	Calling and flight picked up only briefly.	11/06/2018	05:30	620.786	15
BS_SW_0307	1	RH	1	B	105		11/06/2018	06:43	1481.675	105
BS_SW_0308	1	GP	1	A	30	Heard calling then brief low flight.	11/06/2018	07:29	333.138	30
BS_SW_0309	1	NX	1	B	60		11/06/2018	08:02	1478.828	60
BS_SW_0310	7	HH	1	A	105	Adult male.	30/04/2018	18:31	877.206	105
BS_SW_0311_a	7	HH	1	A	45	Low hunting flight.	30/04/2018	19:08	609.288	45
BS_SW_0311_b	7	HH	1	B	105	Higher more purposeful flight after earlier low hunting.	30/04/2018	19:08	526.651	105
BS_SW_0312_a	7	RH	2	C	75		30/04/2018	19:52	924.374	150
BS_SW_0312_b	7	RH	2	B	15	Possibly into land.	30/04/2018	19:52	450.008	30
BS_SW_0313	8	HH	1	A	135	Adult male.	29/04/2018	08:28	793.009	135

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0314	8	HH	1	A	45	Likely same male as flight ref 313.	29/04/2018	08:34	327.831	45
BS_SW_0315	3	SE	1	A	30		30/06/2018	07:43	425.169	30
BS_SW_0316	3	NX	2	A	60		30/06/2018	07:51	339.592	120
BS_SW_0317	3	HH	1	A	30	Female.	30/06/2018	08:17	65.701	30
BS_SW_0318	3	HH	1	A	60	Female, lost down between turbines.	30/06/2018	08:20	464.526	60
BS_SW_0319	3	HH	1	A	15	Juvenile up to meet female.	30/06/2018	08:21	79.354	15
BS_SW_0320	3	CN	1	C	30		30/06/2018	08:31	681.198	30
BS_SW_0321_a	3	NX	1	B	75		30/06/2018	08:32	1004.195	75
BS_SW_0321_b	3	NX	1	C	105		30/06/2018	08:32	682.232	105
BS_SW_0322	3	RH	1	C	60		30/06/2018	08:40	1043.608	60
BS_SW_0323_a	3	NX	1	A	60		30/06/2018	08:52	932.902	60
BS_SW_0323_b	3	NX	1	B	60		30/06/2018	08:52	689.28	60
BS_SW_0323_c	3	NX	1	A	15		30/06/2018	08:52	133.994	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0324	3	NX	1	A	30		30/06/2018	08:59	238.359	30
BS_SW_0325	3	NX	1	A	60		30/06/2018	09:21	527.356	60
BS_SW_0326	3	RH	1	C	75		30/06/2018	09:25	1537.821	75
BS_SW_0327_a	3	NX	1	A	30		30/06/2018	09:48	363.111	30
BS_SW_0327_b	3	NX	1	B	30		30/06/2018	09:48	215.342	30
BS_SW_0328	3	NX	1	A	60		30/06/2018	09:53	828.096	60
BS_SW_0329	3	NX	1	B	135		30/06/2018	09:54	1635.977	135
BS_SW_0330_a	3	NX	3	B	30		30/06/2018	09:59	226.779	90
BS_SW_0330_b	3	NX	3	A	30		30/06/2018	09:59	383.421	90
BS_SW_0331	3	NX	2	A	75		30/06/2018	10:02	747.313	150
BS_SW_0332	1	RH	1	B	135		09/07/2018	17:48	3756.085	135
BS_SW_0333	1	RH	1	B	90		09/07/2018	18:00	1684.154	90
BS_SW_0334	1	RH	2	C	180		09/07/2018	18:43	2950.317	360

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0335	5	GJ	4	A	30	Landed on loch.	29/06/2018	17:44	1314.781	120
BS_SW_0336	5	RH	1	A	15	Landed on loch.	29/06/2018	19:50	403.298	15
BS_SW_0337_a	5	RH	2	B	30	Circled in to land.	29/06/2018	19:04	910.105	60
BS_SW_0337_b	5	RH	2	A	15	Landed.	29/06/2018	19:04	302.636	30
BS_SW_0338	5	RH	3	A	45	Flushed off loch by angling boat.	29/06/2018	19:39	1374.038	135
BS_SW_0339	5	RH	1	B	45	Flew off north.	29/06/2018	19:40	1001.32	45
BS_SW_0340	5	RH	2	A	165	Circled around loch then landed again.	29/06/2018	19:40	2879.454	330
BS_SW_0341_a	7	NX	1	A	30		28/06/2018	18:52	600.178	30
BS_SW_0341_b	7	NX	1	B	30		28/06/2018	18:52	604.39	30
BS_SW_0342	7	HH	1	A	30	Female.	28/06/2018	19:50	626.293	30
BS_SW_0343	7	HH	1	A	150	Female.	28/06/2018	19:56	747.038	150
BS_SW_0344_a	7	HH	1	A	75	Male, at same time as female around nesting area.	28/06/2018	19:57	491.106	75
BS_SW_0344_b	7	HH	1	B	45	Male.	28/06/2018	19:57	486.61	45



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0344_c	7	HH	1	A	90	Male, lost low along shoreline.	28/06/2018	19:57	403.32	90
BS_SW_0345_a	7	BV	2	A	15	Took off from loch.	28/06/2018	20:04	866.808	30
BS_SW_0345_b	7	BV	2	B	60	Lost to south.	28/06/2018	20:04	1244.12	120
BS_SW_0346	2	EA	1	A	30	Low flight into land.	24/06/2018	08:09	603.563	30
BS_SW_0347_a	2	EA	1	A	15	Took off.	24/06/2018	08:13	200.252	15
BS_SW_0347_b	2	EA	1	B	45	Lost around hillside gaining height.	24/06/2018	08:13	630.765	45
BS_SW_0348	6	Diver Sp.	1	A	60		23/06/2018	20:21	1423.804	60
BS_SW_0349	6	HH	1	A	30		23/06/2018	20:49	350.795	30
BS_SW_0350	7	WE	1	A	30	Flew in low and landed.	16/06/2018	11:10	460.565	30
BS_SW_0351	7	WE	1	A	60	Took off and landed again near loch.	16/06/2018	11:18	630.088	60
BS_SW_0352_a	7	WE	1	A	30	Took off.	16/06/2018	11:23	250.695	30
BS_SW_0352_b	7	WE	1	B	120	Lost to view out of viewshed.	16/06/2018	11:23	1541.093	120
BS_SW_0353	7	Diver Sp.	2	C	45	Probably BV, looked just out of viewshed.	16/06/2018	12:01	1598.085	90

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0354	3	NX	1	A	15	Brief flight then landed.	18/06/2018	12:53	281.811	15
BS_SW_0355	3	NX	1	A	30	Flight with 2nd NX (ref 356).	18/06/2018	12:59	481.238	30
BS_SW_0356_a	3	NX	1	A	30	1st part of flight with 2nd NX (ref 355).	18/06/2018	12:59	493.605	30
BS_SW_0356_b	3	NX	1	B	30	Circled higher.	18/06/2018	12:59	479.177	30
BS_SW_0357	3	HH	1	A	15	Male.	18/06/2018	13:17	262.239	15
BS_SW_0358	3	HH	1	A	60	Male above tree-level near turbines.	18/06/2018	14:10	690.405	60
BS_SW_0359_a	3	HH	1	B	45	Female circling.	18/06/2018	15:09	966.725	45
BS_SW_0359_b	3	HH	1	A	15	Lower and lost to view.	18/06/2018	15:09	177.226	15
BS_SW_0360	3	RH	2	B	30	Lower at end of flight but lost to view.	18/06/2018	15:34	1315.503	60
BS_SW_0361	3	AC	1	B	45		18/06/2018	15:45	1373.758	45
BS_SW_0362	4	RH	2	C	150	High overhead calling.	18/06/2018	18:39	1419.235	300
BS_SW_0363	4	HH	1	A	315	Male.	18/06/2018	20:11	2667.345	315
BS_SW_0364	2	HH	1	A	210	Female.	17/06/2018	20:48	1533.711	210

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0365	7	RH	2	B	150		16/06/2018	07:00	3106.361	300
BS_SW_0366_a	7	RH	1	A	30		16/06/2018	07:34	802.193	30
BS_SW_0366_b	7	RH	1	B	75		16/06/2018	07:34	2063.659	75
BS_SW_0367	6	HH	1	A	15	Male lost in plantation.	27/06/2018	06:57	551.101	15
BS_SW_0368	6	ML	1	B	90	Landed north of viewshed with prey.	27/06/2018	07:04	2851.762	90
BS_SW_0369	6	GP	1	A	15	Landed and started calling.	27/06/2018	09:29	98.859	15
BS_SW_0370	1	NX	2	A	30	Landed.	26/06/2018	18:00	1048.241	60
BS_SW_0371	1	RH	1	B	105	Lost behind hill.	26/06/2018	18:04	2087.836	105
BS_SW_0372	1	RH	1	A	15	Landed out of sight.	26/06/2018	18:33	511.302	15
BS_SW_0373	1	DN	1	A	30	Landed near small lochan.	26/06/2018	18:40	362.38	30
BS_SW_0374	1	GK	1	A	15	Lost behind VP.	26/06/2018	18:52	483.241	15
BS_SW_0375	1	GP	1	A	15	Landed near lochan.	26/06/2018	19:00	130.193	15
BS_SW_0376	1	Diver Sp.	1	B	15	Probable BV, looked to be losing height to land.	26/06/2018	19:18	501.946	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0377	1	DN	1	A	45	Displaying.	26/06/2018	19:57	526.248	45
BS_SW_0378_a	1	RH	2	B	30	Looked to land on lochan closer to VP but turned when surveyor sighted.	26/06/2018	20:36	620.764	60
BS_SW_0378_b	1	RH	2	A	60	Landed.	26/06/2018	20:36	729.403	120
BS_SW_0379	1	DN	1	A	30	Just behind VP.	26/06/2018	20:37	342.388	30
BS_SW_0380	3	NX	1	A	15	Took off then landed on moor.	27/06/2018	15:59	168.494	15
BS_SW_0381_a	3	NX	1	B	15		27/06/2018	16:09	613.986	15
BS_SW_0381_b	3	NX	1	A	15	Landed on moor.	27/06/2018	16:09	104.123	15
BS_SW_0382_a	3	NX	3	A	15	Took off to mob GBs.	27/06/2018	16:37	134.648	45
BS_SW_0382_b	3	NX	3	B	30	Mobbed GBs.	27/06/2018	16:37	492.826	90
BS_SW_0382_c	3	NX	3	A	15	Landed back on moor.	27/06/2018	16:37	126.337	45
BS_SW_0383_a	3	NX	1	A	15		27/06/2018	16:41	847.947	15
BS_SW_0383_b	3	NX	1	B	45		27/06/2018	16:41	1524.635	45



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0383_c	3	NX	1	C	90		27/06/2018	16:41	2215.132	90
BS_SW_0384	3	HH	1	C	45	Female in moult.	27/06/2018	16:42	1623.849	45
BS_SW_0385_a	3	RH	1	C	15		27/06/2018	16:42	545.424	15
BS_SW_0385_b	3	RH	1	B	30	Heading towards loch 53 lost behind mound.	27/06/2018	16:42	389.346	30
BS_SW_0386	3	NX	1	A	15	Landed next to 2nd NX on moor.	27/06/2018	16:46	196.028	15
BS_SW_0387_a	3	NX	1	A	15		27/06/2018	17:17	561.276	15
BS_SW_0387_b	3	NX	1	B	30	Took off from moor.	27/06/2018	17:17	403.48	30
BS_SW_0388_a	3	NX	1	C	15		27/06/2018	17:36	544.058	15
BS_SW_0388_b	3	NX	1	B	45		27/06/2018	17:36	1827.736	45
BS_SW_0389	3	NX	1	A	60	Lost behind hill.	27/06/2018	17:56	1587.143	60
BS_SW_0390_a	3	BV	1	B	15		27/06/2018	18:02	322.176	15
BS_SW_0390_b	3	BV	1	C	90		27/06/2018	18:02	3079.181	90
BS_SW_0390_c	3	BV	1	B	45		27/06/2018	18:02	1461.42	45

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0390_d	3	BV	1	A	30	Landed on loch Leadharain.	27/06/2018	18:02	563.922	30
BS_SW_0391	3	NX	1	A	30	Landed on moor.	27/06/2018	18:12	582.654	30
BS_SW_0392_a	3	NX	2	A	15	Display flight.	27/06/2018	18:13	121.374	30
BS_SW_0392_b	3	NX	2	B	30		27/06/2018	18:13	693.125	60
BS_SW_0392_c	3	NX	2	C	15		27/06/2018	18:13	555.659	30
BS_SW_0392_d	3	NX	2	B	15		27/06/2018	18:13	61.687	30
BS_SW_0392_e	3	NX	2	A	15	Landed on moor.	27/06/2018	18:13	76.038	30
BS_SW_0393_a	3	HH	1	C	45	Female.	27/06/2018	18:23	1776.061	45
BS_SW_0393_b	3	HH	1	B	15	Lost behind trees.	27/06/2018	18:23	308.098	15
BS_SW_0394	3	NX	2	A	30	Took off from moor and lost to east.	27/06/2018	18:31	656.178	60
BS_SW_0395	3	NX	1	A	15	Landed on moor.	27/06/2018	18:36	380.185	15
BS_SW_0396	4	NX	1	B	45		29/06/2018	12:49	1960.217	45
BS_SW_0397	4	NX	1	C	30	Thermaling towards ridge.	29/06/2018	13:08	881.293	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0398_a	4	NX	1	B	15		29/06/2018	13:12	620.039	15
BS_SW_0398_b	4	NX	1	A	15	landed on ridge.	29/06/2018	13:12	269.24	15
BS_SW_0399	4	NX	1	B	45	Pursuing GB, lost behind hill.	29/06/2018	13:42	2236.597	45
BS_SW_0400_a	4	NX	1	B	45		29/06/2018	14:16	584.876	45
BS_SW_0400_b	4	NX	1	A	15		29/06/2018	14:16	602.578	15
BS_SW_0400_c	4	NX	1	B	45		0218-06-29	14:16	617.249	45
BS_SW_0401	4	RH	1	C	75	Straight out to sea.	29/06/2018	14:27	1150.347	75
BS_SW_0402	4	NX	1	B	90	Chasing GBs then off south.	29/06/2018	14:32	2016.066	90
BS_SW_0403_a	4	NX	2	B	15	Displaying then thermalling together for 13mins	29/06/2018	14:43	190.965	30
BS_SW_0403_b	4	NX	2	A	15		29/06/2018	14:43	98.585	30
BS_SW_0403_c	4	NX	2	B	15		29/06/2018	14:43	181.853	30
BS_SW_0403_d	4	NX	2	C	60		29/06/2018	14:43	1216.423	120
BS_SW_0403_e	4	NX	2	D	195		29/06/2018	14:43	1504.486	390



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0403_f	4	NX	2	C	120		29/06/2018	14:43	418.694	240
BS_SW_0403_g	4	NX	2	D	300		29/06/2018	14:43	604.712	600
BS_SW_0404	4	NX	1	D	165		29/06/2018	15:14	1422.244	165
BS_SW_0405	4	NX	1	D	90		29/06/2018	15:18	728.64	90
BS_SW_0406_a	4	NX	1	A	30		29/06/2018	15:33	208.033	30
BS_SW_0406_b	4	NX	1	B	45		29/06/2018	15:33	444.198	45
BS_SW_0407	4	NX	3	D	360		29/06/2018	15:35	1501.655	1080
BS_SW_0408	3	NX	1	B	45		05/07/2018	14:18	1418.472	45
BS_SW_0409	3	NX	1	A	60	Landed on Moor.	05/07/2018	14:20	1005.504	60
BS_SW_0410	3	NX	1	A	70	Took off from Moor.	05/07/2018	14:34	1134.702	70
BS_SW_0411_a	3	NX	2	C	45		05/07/2018	14:48	1190.313	90
BS_SW_0411_b	3	NX	2	B	30		05/07/2018	14:48	580.662	60
BS_SW_0411_c	3	NX	2	C	45		05/07/2018	14:48	813.414	90

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0411_d	3	NX	2	D	105		05/07/2018	14:48	1031.952	210
BS_SW_0412	3	NX	1	B	45		05/07/2018	14:49	631.523	45
BS_SW_0413_a	3	NX	2	A	15		05/07/2018	15:17	157.523	30
BS_SW_0413_b	3	NX	2	B	45		05/07/2018	15:17	655.246	90
BS_SW_0413_c	3	NX	2	A	15	Landed.	05/07/2018	15:17	118.721	30
BS_SW_0414_a	3	NX	1	A	30	Took off from Moor.	05/07/2018	15:22	275.849	30
BS_SW_0414_b	3	NX	1	B	60		05/07/2018	15:22	2370.301	60
BS_SW_0415_a	3	NX	1	A	150		05/07/2018	15:41	4006.093	150
BS_SW_0415_b	3	NX	1	B	15		05/07/2018	15:41	1175.167	15
BS_SW_0416	3	NX	1	B	90		05/07/2018	16:28	1299.115	90
BS_SW_0417_a	4	HH	1	A	60	Ringtail, hunting low then higher circling flight, then low and lost.	04/04/2018	07:33	170.969	60
BS_SW_0417_b	4	HH	1	B	15		04/04/2018	07:33	139.875	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0417_c	4	HH	1	A	75		04/04/2018	07:33	50.406	75
BS_SW_0417_d	4	HH	1	B	30		04/04/2018	07:33	504.889	30
BS_SW_0417_e	4	HH	1	A	30		04/04/2018	07:33	167.419	30
BS_SW_0418	1	GP	1	A	30	2 birds continued on, 3rd bird shown as flight 419	03/04/2018	08:32	419.518	30
BS_SW_0419_a	1	GP	1	B	30		03/04/2018	08:32	562.952	30
BS_SW_0419_b	1	GP	1	A	15	Landed.	03/04/2018	08:32	61.273	15
BS_SW_0420_a	1	EA	1	B	30	Adult, gaining height	03/04/2018	09:50	827.184	30
BS_SW_0420_b	1	EA	1	C	45		03/04/2018	09:50	1140.145	45
BS_SW_0421	2	GK	1	A	30	Head calling then flew off low and lost over hill.	08/04/2018	11:25	514.976	30
BS_SW_0422_a	2	EA	1	B	15	Mobbed by ringtail HH.	08/04/2018	13:07	789.691	15
BS_SW_0422_b	2	EA	1	A	60	Landed.	08/04/2018	13:07	476.438	60
BS_SW_0423_a	2	HH	1	B	15	Ringtail flew in to mob EA.	08/04/2018	13:08	561.795	15
BS_SW_0423_b	2	HH	1	A	75		08/04/2018	13:08	635.455	75



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0423_c	2	HH	1	B	30	Flew off south after mobbing EA.	08/04/2018	13:08	750.951	30
BS_SW_0424	2	EA	1	A	30	Took off and lost to north.	08/04/2018	13:16	263.743	30
BS_SW_0425_a	2	GP	1	A	30		08/04/2018	09:22	266.55	30
BS_SW_0425_b	2	GP	1	B	15		08/04/2018	09:22	261.213	15
BS_SW_0425_c	2	GP	1	A	15		08/04/2018	09:22	434.217	15
BS_SW_0426	8	HH	1	A	150	Male, hunting along ditch-line, lost to view and possibly landed.	05/04/2018	18:05	2038.059	150
BS_SW_0427	5	GJ	1	A	30	Flew onto loch.	04/04/2018	11:56	610.68	30
BS_SW_0428_a	5	HH	1	B	30	Male circling near turbines then lost north.	04/04/2018	14:41	1326.639	30
BS_SW_0428_b	5	HH	1	A	15		04/04/2018	14:41	264.626	15
BS_SW_0429_a	5	WE	1	B	90	Subadult in heavy moult.	09/07/2018	13:47	1444.286	90
BS_SW_0429_b	5	WE	1	A	30		09/07/2018	13:47	394.409	30
BS_SW_0429_c	5	WE	1	B	120		09/07/2018	13:47	1877.324	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0429_d	5	WE	1	C	120	Mobbed by CN.	09/07/2018	13:47	2006.472	120
BS_SW_0429_e	5	WE	1	D	360	Lost high in bright sky.	09/07/2018	13:47	6858.82	360
BS_SW_0430	5	NX	1	B	45	Lost from view behind mound.	09/07/2018	14:18	916.726	45
BS_SW_0431	5	GK	1	B	15	Lost in dip.	09/07/2018	14:26	399.271	15
BS_SW_0432_a	5	HH	1	C	105	Ringtail carrying prey (small).	09/07/2018	14:28	1329.29	105
BS_SW_0432_b	5	HH	1	B	15	Lost from view behind trees.	09/07/2018	14:28	216.186	15
BS_SW_0433	5	CN	1	B	30	Lost from view in bright sky.	09/07/2018	14:33	709.758	30
BS_SW_0434	5	CN	1	A	15	Lost from view low.	09/07/2018	14:39	277.95	15
BS_SW_0435_a	5	CN	1	A	15		09/07/2018	14:56	194.576	15
BS_SW_0435_b	5	CN	1	B	30		09/07/2018	14:56	586.461	30
BS_SW_0435_c	5	CN	1	C	15	Lost in bright sky.	09/07/2018	14:56	486.107	15
BS_SW_0436_a	5	HH	1	C	45	Adult male.	09/07/2018	15:37	1426.397	45
BS_SW_0436_b	5	HH	1	B	30	Lost from view behind trees.	09/07/2018	15:37	820.98	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0437	5	HH	1	A	75	Juv female lost from view behind trees.	09/07/2018	15:49	553.298	75
BS_SW_0438	5	ML	2	A	30	Adult pair m/f, calling, lost in dip	09/07/2018	15:52	396.603	60
BS_SW_0439_a	5	ML	1	A	15	Adult male	09/07/2018	16:27	288.607	15
BS_SW_0439_b	5	ML	1	B	15		09/07/2018	16:27	223.604	15
BS_SW_0439_c	5	ML	1	A	15	Lost low.	09/07/2018	16:27	157.228	15
BS_SW_0440	5	CN	30	A	60	Mobbing HG.	09/07/2018	16:43	424.589	1800
BS_SW_0441	5	RH	1	B	60	Possibly left loch 46, lost in valley.	09/07/2018	17:50	1500.314	60
BS_SW_0442	5	HH	1	A	15	Ringtail, lost in trees.	09/07/2018	18:24	447.716	15
BS_SW_0443_a	5	CN	1	A	15		09/07/2018	18:30	150.14	15
BS_SW_0443_b	5	CN	1	B	30	Left viewshed.	09/07/2018	18:30	958.504	30
BS_SW_0444_a	5	RH	1	B	45	Calling	09/07/2018	18:50	1235.808	45
BS_SW_0444_b	5	RH	1	A	15	Lost from view, looked to have landed on Loch 49.	09/07/2018	18:50	147.616	15
BS_SW_0445_a	5	RH	1	A	15	Calling adult, off Loch 46.	09/07/2018	19:06	478.937	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0445_b	5	RH	1	B	75		09/07/2018	19:06	1827.416	75
BS_SW_0445_c	5	RH	1	C	75	Flew out to sea.	09/07/2018	19:06	2240.601	75
BS_SW_0446_a	5	RH	2	A	30		09/07/2018	19:26	1012.343	60
BS_SW_0446_b	5	RH	2	B	30	Possibly dropped onto breeding Loch 53.	09/07/2018	19:26	1122.216	60
BS_SW_0447	5	CN	2	A	30	Lost in dip, chasing each-other.	09/07/2018	19:30	535.433	60
BS_SW_0448_a	5	RH	1	B	45	Possibly off Loch 53, adult calling.	09/07/2018	19:47	1384.716	45
BS_SW_0448_b	5	RH	1	C	30	Flew out to sea.	09/07/2018	19:47	960.619	30
BS_SW_0449	2	WS	1	A	30	Adult took off from loch then landed again.	10/07/2018	11:49	779.429	30
BS_SW_0450_a	6	GJ	5	D	30		13/07/2018	09:29	666.404	150
BS_SW_0450_b	6	GJ	5	C	45		13/07/2018	09:29	739.026	225
BS_SW_0450_c	6	GJ	5	B	45		13/07/2018	09:29	593.305	225
BS_SW_0450_d	6	GJ	5	C	45		13/07/2018	09:29	1004.832	225
BS_SW_0451_a	6	NX	1	D	180		13/07/2018	11:10	531.413	180

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0451_b	6	NX	1	C	60		13/07/2018	11:10	231.374	60
BS_SW_0451_c	6	NX	1	B	15		13/07/2018	11:10	229.975	15
BS_SW_0452_a	6	ML	1	B	75	Adult female carrying prey, lost in trees as flew towards nest area.	13/07/2018	11:24	2141.862	75
BS_SW_0452_b	6	ML	1	A	15		13/07/2018	11:24	214.245	15
BS_SW_0453_a	5	RH	1	A	30	Off breeding loch.	15/07/2018	08:46	992.092	30
BS_SW_0453_b	5	RH	1	B	75		13/07/2018	08:46	1585.707	75
BS_SW_0454	5	RH	2	A	15	Briefly seen, landed.	15/07/2018	09:07	78.066	30
BS_SW_0455_a	5	ML	1	B	15	Adult female, lost in trees	15/07/2018	10:10	239.732	15
BS_SW_0455_b	5	ML	1	A	15		15/07/2018	10:10	177.516	15
BS_SW_0456	5	NX	1	A	45	Mobbed by GB then landed.	15/07/2018	10:31	1009.263	45
BS_SW_0457	5	ML	1	A	30	Adult female with food into nesting area.	15/07/2018	10:32	954.331	30
BS_SW_0459_a	5	RH	2	A	15	Possibly off breeding loch, calling.	15/07/2018	11:22	581.943	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0459_b	5	RH	2	B	90		15/07/2018	11:22	2044.828	180
BS_SW_0459_c	5	RH	2	C	75		15/07/2018	11:22	979.548	150
BS_SW_0460_a	5	NX	3	B	30		15/07/2018	11:43	245.033	90
BS_SW_0460_b	5	NX	3	A	15		15/07/2018	11:43	287.708	45
BS_SW_0460_c	5	NX	3	B	30	Lost behind trees.	15/07/2018	11:43	626.666	90
BS_SW_0461_a	8	CN	1	A	15	Following valley/stream	16/07/2018	09:15	293.743	15
BS_SW_0461_b	8	CN	1	B	45		16/07/2018	09:15	885.35	45
BS_SW_0461_c	8	CN	1	A	15		16/07/2018	09:15	750.36	15
BS_SW_0462	8	HH	1	A	60	Ringtail juv. landed.	16/07/2018	09:16	710.244	60
BS_SW_0463	8	CN	2	A	30	Lost in swale.	16/07/2018	09:28	510.43	60
BS_SW_0464_a	8	CN	3	A	45	Following streamline.	16/07/2018	09:30	792.848	135
BS_SW_0464_b	8	CN	3	B	105		16/07/2018	09:30	1037.95	315
BS_SW_0465	8	CN	1	B	90	Following streamline.	16/07/2018	09:39	829.143	90



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0466	8	NX	1	A	105		16/07/2018	09:57	1168.525	105
BS_SW_0468	8	HH	1	A	135	Adult female hunting, lost in dip.	16/07/2018	10:02	981.553	135
BS_SW_0469	8	BV	1	B	15	Presumed to be off breeding loch	16/07/2018	10:05	363.321	15
BS_SW_0470	8	CN	1	A	30	Lost low following streamline.	16/07/2018	10:14	607.404	30
BS_SW_0471_a	8	NX	1	C	30		16/07/2018	10:32	576.709	30
BS_SW_0471_b	8	NX	1	D	105	Lost high in bright sky.	16/07/2018	10:32	2683.601	105
BS_SW_0472	8	CN	1	A	45	Lost behind mound.	16/07/2018	10:39	801.034	45
BS_SW_0473_a	8	CN	3	A	45	Following streamline.	16/07/2018	10:42	537.863	135
BS_SW_0473_b	8	CN	3	B	90		16/07/2018	10:42	989.597	270
BS_SW_0474	8	CN	8	A	45	Lost from view low.	16/07/2018	10:47	420.337	360
BS_SW_0475	8	NX	1	A	15	Lost in dip.	16/07/2018	10:52	564.526	15
BS_SW_0476	8	NX	1	A	15	Low flight.	16/07/2018	11:11	228.843	15
BS_SW_0477	8	CN	4	A	45	Lost in valley.	16/07/2018	11:14	607.794	180

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0478_a	8	CN	1	B	15		16/07/2018	11:20	458.871	15
BS_SW_0478_b	8	CN	1	A	15	Lost low.	16/07/2018	11:20	224.925	15
BS_SW_0479_a	8	CN	1	B	15		16/07/2018	11:23	605.347	15
BS_SW_0479_b	8	CN	1	A	15	Lost low.	16/07/2018	11:23	312.62	15
BS_SW_0480_a	8	CN	1	A	30		16/07/2018	11:54	262.688	30
BS_SW_0480_b	8	CN	1	B	30		16/07/2018	11:54	393.845	30
BS_SW_0480_c	8	CN	1	A	30	Lost low along streamline.	16/07/2018	11:54	909.772	30
BS_SW_0482_a	7	RH	2	B	30	Calling, heading to land on Loch a Bhuna	17/07/2018	10:24	2147.483	60
BS_SW_0482_b	7	RH	2	C	30		17/07/2018	10:24	1542.398	60
BS_SW_0482_c	7	RH	2	B	15		17/07/2018	10:24	393.271	30
BS_SW_0482_d	7	RH	2	A	15	Landed.	17/07/2018	10:24	639.744	30
BS_SW_0483_a	7	ML	1	B	30	Female	17/07/2018	10:58	1162.906	30
BS_SW_0483_b	7	ML	1	A	30	Lost to view low.	17/07/2018	10:58	383.606	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0484	7	WE	1	A	45	Adult, landed in tree	17/07/2018	11:12	973.599	45
BS_SW_0485_a	7	NX	1	A	120		17/07/2018	12:05	1277.367	120
BS_SW_0485_b	7	NX	1	B	15	Lost in valley.	17/07/2018	12:05	258.987	15
BS_SW_0486	4	NX	1	A	30	Landed.	17/07/2018	10:04	452.672	30
BS_SW_0487	4	NX	2	A	90	Landed.	17/07/2018	10:06	1666.414	180
BS_SW_0488	4	NX	1	B	60	Flight mapped as B as height band change not indicated on field map. Landed.	17/07/2018	10:15	1335.942	60
BS_SW_0489_a	4	HH	1	B	105	Landed.	17/07/2018	11:10	1852.503	105
BS_SW_0489_b	4	HH	1	A	15		17/07/2018	11:10	142.319	15
BS_SW_0490	4	NX	1	A	45		17/07/2018	11:22	1398.804	45
BS_SW_0491_a	4	NX	1	C	90		17/07/2018	11:34	972.673	90
BS_SW_0491_b	4	NX	1	B	15		17/07/2018	11:34	312.11	15
BS_SW_0491_c	4	NX	1	A	15		17/07/2018	11:34	238.392	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0492	4	HH	2	A	60	Landed.	17/07/2018	12:02	756.241	120
BS_SW_0493	4	HH	2	A	45	Landed.	17/07/2018	12:03	715.152	90
BS_SW_0494_a	4	NX	1	A	15	Landed.	17/07/2018	12:18	220.967	15
BS_SW_0494_b	4	NX	1	B	15		17/07/2018	12:18	334.367	15
BS_SW_0494_c	4	NX	1	A	15		17/07/2018	12:18	541.347	15
BS_SW_0494_d	4	NX	1	B	15		17/07/2018	12:18	652.692	15
BS_SW_0495_a	2	RH	1	A	30	Flew from breeding lochan (ID 22).	18/07/2018	07:40	699.48	30
BS_SW_0495_b	2	RH	1	B	75		18/07/2018	07:40	1749.966	75
BS_SW_0495_c	2	RH	1	C	15		18/07/2018	07:40	229.361	15
BS_SW_0496_a	2	RH	1	C	30	Landed.	18/07/2018	08:28	424.676	30
BS_SW_0496_b	2	RH	1	B	45		18/07/2018	08:28	1350.752	45
BS_SW_0496_c	2	RH	1	A	15		18/07/2018	08:28	425.013	15
BS_SW_0497	2	RH	1	A	30	Landed.	18/07/2018	08:44	780.797	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0498	5	RH	2	C	90		22/05/2018	20:57	2273.787	180
BS_SW_0499	5	SE	1	A	120	On fencepost. Flew low along plantation edge. Saw again in same area when leaving VP5.	22/05/2018	21:11	527.529	120
BS_SW_0500	7	EA	1	B	285	Adult, lost low. Difficult to GIS (same colour used on field map & no HB changes noted) (C-B-C).	12/05/2018	11:04	10765.44	285
BS_SW_0501	7	EA	1	B	225	Adult, lost high. Difficult to GIS (see _500) (B-C).	12/05/2018	11:05	6273.165	225
BS_SW_0502	5	HH	1	A	150	Male.	13/05/2018	16:36	855.207	150
BS_SW_0503	5	HH	1	A	45	Male.	13/05/2018	16:55	527.682	45
BS_SW_0504	5	ML	1	A	15	Female. Seen very briefly emerging out of plantation and then crossing river.	13/05/2018	17:14	380.161	15
BS_SW_0505	6	BV	2	A	15	Pair landed on Loch a Bhuna.	13/05/2018	19:17	669.789	30
BS_SW_0506	6	RH	1	B	60		13/05/2018	19:41	2146.215	60
BS_SW_0507	4	GJ	2	A	30		22/05/2018	06:52	556.688	60
BS_SW_0508	4	GJ	3	A	30		22/05/2018	07:01	659.305	90

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0509	4	NX	1	B	30		22/05/2018	07:39	1001.507	30
BS_SW_0510	4	NX	1	A	45		22/05/2018	07:44	752.98	45
BS_SW_0511	4	HH	1	A	75		22/05/2018	08:13	1117.798	75
BS_SW_0512	8	EA	1	A	75	Immature (3CY?). Low flight and then landed.	07/05/2018	17:37	979.395	75
BS_SW_0513_a	8	EA	1	A	15	Same bird as _512. Took flight after being perched on ground for 8 mins.	07/05/2018	17:46	188.087	15
BS_SW_0513_b	8	EA	1	B	195		07/05/2018	17:46	2191.669	195
BS_SW_0513_c	8	EA	1	C	75		07/05/2018	17:46	1783.99	75
BS_SW_0514	8	GJ	2	A	45		07/05/2018	18:08	912.371	90
BS_SW_0515	1	RH	2	B	105		11/05/2018	08:14	2334.309	210
BS_SW_0516	1	GJ	4	B	30		11/05/2018	09:36	677.85	120
BS_SW_0517	1	RH	1	B	30		11/05/2018	10:24	957.876	30
BS_SW_0518_a	1	EA	1	C	75	Adult at c100m height, circled higher then lost height as flew towards hillside.	11/05/2018	12:09	2880.36	75



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0518_b	1	EA	1	B	15		11/05/2018	12:09	610.285	15
BS_SW_0519	7	GP	1	A	15		12/05/2018	06:30	153.353	15
BS_SW_0520	7	GP	2	A	45		12/05/2018	06:36	461.612	90
BS_SW_0521_a	7	GP	3	A	30		12/05/2018	06:41	655.27	90
BS_SW_0521_b	7	GP	3	B	30		12/05/2018	06:41	285.946	90
BS_SW_0522	7	RH	2	B	45		12/05/2018	08:07	1535.685	90
BS_SW_0523	4	GJ	4	A	60		05/05/2018	18:35	709.274	240
BS_SW_0524	4	NX	1	A	30		05/05/2018	18:39	731.334	30
BS_SW_0525	4	NX	1	B	45		05/05/2018	18:51	1185.705	45
BS_SW_0526	4	NX	1	A	30		05/05/2018	18:51	1155.199	30
BS_SW_0527	4	HH	1	A	255	Male.	05/05/2018	19:23	1649.447	255
BS_SW_0528	6	GP	1	A	15		05/05/2018	07:03	351.383	15
BS_SW_0529_a	6	RH	2	C	90	Unsure if landed on lochans as lost height.	05/05/2018	07:11	1730.476	180

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0529_b	6	RH	2	B	75		05/05/2018	07:11	1055.075	150
BS_SW_0530	6	HH	1	A	135	Ringtail.	05/05/2018	07:42	307.487	135
BS_SW_0531	6	HH	1	A	330	Ringtail.	05/05/2018	07:51	426.702	330
BS_SW_0532	6	GP	2	A	30		05/05/2018	07:58	1044.735	60
BS_SW_0533	3	NX	2	B	30		06/05/2018	18:54	944.599	60
BS_SW_0534_a	3	RH	1	C	15		06/05/2018	19:17	435.854	15
BS_SW_0534_b	3	RH	1	B	15		06/05/2018	19:17	584.952	15
BS_SW_0535	3	RH	1	B	75		06/05/2018	19:35	2936.456	75
BS_SW_0536	3	SE	1	A	105		06/05/2018	21:29	842.887	105
BS_SW_0538	4	RH	2	C	120		06/05/2018	16:41	2591.702	240
BS_SW_0539	8	RH	1	A	45	Bird on loch on arrival. Flew off - possibly disturbed.	07/05/2018	05:16	2431.078	45
BS_SW_0540	8	HH	1	A	150	Male.	07/05/2018	06:37	642.999	150
BS_SW_0541	8	HH	1	A	30	Male.	07/05/2018	06:51	361.464	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0542	7	NX	1	B	195	Soaring then lost low.	23/07/2018	16:15	3599.227	195
BS_SW_0543_a	7	NX	1	A	15		23/07/2018	16:15	260.428	15
BS_SW_0543_b	7	Tern sp.	1	C	75	High and lost to east. Probably CN but too distant to confirm.	23/07/2018	16:58	1062.753	75
BS_SW_0544_a	2	RH	1	A	30		23/07/2018	15:40	1022.33	30
BS_SW_0544_b	2	RH	1	B	30		23/07/2018	15:40	983.318	30
BS_SW_0545	5	HH	1	A	120	Adult male. Low, hunting flight.	26/07/2018	08:55	1168.12	120
BS_SW_0546	5	ML	2	A	45	Two immature birds chasing an MP. Flew outwith viewshed.	26/07/2018	09:05	990.789	90
BS_SW_0547	5	RH	1	B	75		26/07/2018	09:15	2364.132	75
BS_SW_0548_a	5	WE	1	B	90	Adult. Mobbed by HG then lost behind plantation.	26/07/2018	09:18	977.984	90
BS_SW_0548_b	5	WE	1	A	30		26/07/2018	09:18	225.636	30
BS_SW_0549_a	5	NX	2	B	75	Lost low into sun / glare.	26/07/2018	10:19	2242.527	150
BS_SW_0549_b	5	NX	2	A	90		26/07/2018	10:19	484.226	180
BS_SW_0550	4	RH	1	B	45	Lost from view in haze.	26/07/2018	09:04	1894.209	45



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0551_a	4	RH	1	B	15		26/07/2018	09:23	326.467	15
BS_SW_0551_b	4	RH	1	A	15		26/07/2018	09:23	287.776	15
BS_SW_0552_a	4	CN	1	B	15		26/07/2018	09:24	298.107	15
BS_SW_0552_b	4	CN	1	A	15		26/07/2018	09:24	336.176	15
BS_SW_0552_c	4	CN	1	B	15		26/07/2018	09:24	210.543	15
BS_SW_0552_d	4	CN	1	A	15		26/07/2018	09:24	162.794	15
BS_SW_0553	4	NX	1	B	45		26/07/2018	09:34	1302.036	45
BS_SW_0554	4	CN	3	A	45		26/07/2018	09:52	796.655	135
BS_SW_0555	4	CN	1	A	30		26/07/2018	09:54	655.712	30
BS_SW_0556	4	CN	1	A	45		26/07/2018	10:11	892.247	45
BS_SW_0557_a	4	NX	1	B	45		26/07/2018	10:33	1008.849	45
BS_SW_0557_b	4	NX	1	A	15		26/07/2018	10:33	248.047	15
BS_SW_0558	4	NX	1	B	45		26/07/2018	10:57	857.078	45

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0559_a	4	NX	1	A	15	Chased an HG.	26/07/2018	11:38	343.757	15
BS_SW_0559_b	4	NX	1	B	15		26/07/2018	11:38	322.907	15
BS_SW_0559_c	4	NX	1	A	15		26/07/2018	11:38	379.057	15
BS_SW_0560_a	8	CN	1	B	30	Lost behind hummocks.	25/07/2018	13:30	385.481	30
BS_SW_0560_b	8	CN	1	A	15		25/07/2018	13:30	193.535	15
BS_SW_0561	8	Tern sp.	1	A	15		25/07/2018	13:41	272.159	15
BS_SW_0562_a	8	NX	3	B	15		25/07/2018	14:03	173.993	45
BS_SW_0562_b	8	CN	3	A	15		25/07/2018	14:03	194.145	45
BS_SW_0563	8	CN	1	B	45		25/07/2018	14:04	1490.031	45
BS_SW_0564	8	CN	1	A	30		25/07/2018	14:08	416.11	30
BS_SW_0565	8	CN	1	A	30		25/07/2018	14:24	554.615	30
BS_SW_0566	8	CN	1	A	45		25/07/2018	14:34	854.445	45
BS_SW_0567	8	EA	1	A	15	Short flight, lost low behind mound.	25/07/2018	14:43	133.335	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0568_a	8	CN	1	A	15		25/07/2018	14:44	205.809	15
BS_SW_0568_b	8	CN	1	B	15		25/07/2018	14:44	413.304	15
BS_SW_0568_c	8	CN	1	A	15		25/07/2018	14:44	635.32	15
BS_SW_0569_a	8	NX	1	B	30	Lost behind VP.	25/07/2018	14:58	773.241	30
BS_SW_0569_b	8	NX	1	A	15		25/07/2018	14:58	505.029	15
BS_SW_0570_a	8	CN	1	B	30	Carrying food.	25/07/2018	15:03	673.56	30
BS_SW_0570_b	8	CN	1	A	15		25/07/2018	15:03	453.623	15
BS_SW_0571	8	CN	2	B	60		25/07/2018	15:15	1524.072	120
BS_SW_0572	8	CN	1	A	30		25/07/2018	15:29	829.469	30
BS_SW_0573_a	8	CN	1	B	45	Carrying food.	25/07/2018	15:48	767.553	45
BS_SW_0573_b	8	CN	1	A	15		25/07/2018	15:48	263.005	15
BS_SW_0574	8	CN	1	B	60	Stuttering zig-zag flight.	25/07/2018	16:14	2734.183	60
BS_SW_0575	8	NX	1	B	60		25/07/2018	16:24	1500.069	60



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0576_a	3	NX	1	B	60		25/07/2018	17:58	592.196	60
BS_SW_0576_b	3	NX	1	A	15		25/07/2018	17:58	470.44	15
BS_SW_0577_a	3	NX	2	B	60	Landed together.	25/07/2018	18:28	328.801	120
BS_SW_0577_b	3	NX	2	A	15		25/07/2018	18:28	457.922	30
BS_SW_0578	3	NX	1	A	30	Landed.	25/07/2018	18:29	348.999	30
BS_SW_0579	3	NX	1	A	30	Chased GB behind VP.	25/07/2018	18:34	685.779	30
BS_SW_0580	3	NX	1	B	45		25/07/2018	18:55	1395.925	45
BS_SW_0581	3	GJ	7	B	120		25/07/2018	19:09	2256.158	840
BS_SW_0582_a	3	NX	1	A	30		25/07/2018	19:13	561.285	30
BS_SW_0582_b	3	NX	1	B	30		25/07/2018	19:13	1005.232	30
BS_SW_0582_c	3	NX	1	A	30		25/07/2018	19:13	261.061	30
BS_SW_0583	3	RH	1	B	30		25/07/2018	19:15	894.884	30
BS_SW_0584_a	3	SE	1	A	120	Hunting. Lost amongst trees of plantation.	25/07/2018	19:24	1554.425	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0584_b	3	SE	1	B	15		25/07/2018	19:24	419.508	15
BS_SW_0584_c	3	SE	1	A	30		25/07/2018	19:24	646.932	30
BS_SW_0585	3	CN	4	B	45		25/07/2018	19:36	755.842	180
BS_SW_0586_a	3	RH	1	B	15		25/07/2018	20:07	360.468	15
BS_SW_0586_b	3	RH	1	A	15		25/07/2018	20:07	252.984	15
BS_SW_0587_a	6	EA	1	A	45	Adult. Appeared from behind crag. Soaring flight into wind. Displaying. Lost from view behind VP.	25/07/2018	13:44	792.312	45
BS_SW_0587_b	6	EA	1	B	165		25/07/2018	13:44	3743.72	165
BS_SW_0588_a	6	EA	1	A	30	Adult. Joined _587 after period of display. Lost from view behind VP.	25/07/2018	13:46	472.232	30
BS_SW_0588_b	6	EA	1	B	90		25/07/2018	13:46	2293.583	90
BS_SW_0589_a	6	EA	1	B	165	Adult. Held stationary against wind at times. Soaring flight, lost from view high to south.	25/07/2018	15:25	1241.924	165
BS_SW_0589_b	6	EA	1	C	285		25/07/2018	15:25	2275.545	285

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0589_c	6	EA	1	D	165		25/07/2018	15:25	967.221	165
BS_SW_0590_a	7	NX	1	B	120	Soaring flight. Lost from view, low.	27/07/2018	15:21	2639.924	120
BS_SW_0590_b	7	NX	1	A	30		27/07/2018	15:21	282.773	30
BS_SW_0591_a	4	NX	1	A	15		27/07/2018	13:24	220.495	15
BS_SW_0591_b	4	NX	1	B	45		27/07/2018	13:24	1038.176	45
BS_SW_0592	4	CN	2	B	45		27/07/2018	13:28	1201.036	90
BS_SW_0593	4	CN	2	B	60		27/07/2018	13:28	872.414	120
BS_SW_0594_a	4	NX	1	B	30	Chasing / mobbing juvenile HG.	27/07/2018	13:34	952.461	30
BS_SW_0594_b	4	NX	1	A	15		27/07/2018	13:34	219.763	15
BS_SW_0594_c	4	NX	1	B	15		27/07/2018	13:34	346.321	15
BS_SW_0595_a	4	CN	2	B	15		27/07/2018	13:35	356.362	30
BS_SW_0595_b	4	CN	2	A	15		27/07/2018	13:35	230.523	30
BS_SW_0596_a	4	NX	1	A	15		27/07/2018	13:36	150.29	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0596_b	4	NX	1	B	15		27/07/2018	13:36	176.749	15
BS_SW_0596_c	4	NX	1	A	15		27/07/2018	13:36	346.56	15
BS_SW_0596_d	4	NX	1	B	15		27/07/2018	13:36	192.739	15
BS_SW_0597_a	4	NX	1	B	15		27/07/2018	13:44	321.707	15
BS_SW_0597_b	4	NX	1	C	60		27/07/2018	13:44	1473.273	60
BS_SW_0598	4	CN	1	B	45		27/07/2018	14:16	1095.788	45
BS_SW_0599_a	4	NX	1	B	30		27/07/2018	14:38	372.96	30
BS_SW_0599_b	4	NX	1	A	15		27/07/2018	14:38	172.883	15
BS_SW_0600	4	CN	2	B	60		27/07/2018	14:45	1016.141	120
BS_SW_0601	4	CN	1	B	45		27/07/2018	14:47	1054.415	45
BS_SW_0602_a	4	NX	1	B	75	Quick drop behind hill and out of sight.	27/07/2018	15:02	1202.638	75
BS_SW_0602_b	4	NX	1	A	15		27/07/2018	15:02	312.415	15
BS_SW_0603	4	CN	3	A	30		27/07/2018	15:32	360.118	90

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0604_a	4	NX	4	B	15	Swirl of 180+ gulls with 4xNX constantly divebombing something behind treeline...	27/07/2018	15:43	363.189	60
BS_SW_0604_b	4	NX	4	A	15	...Disturbance/predator unseen/unknown.	27/07/2018	15:43	306.08	60
BS_SW_0604_c	4	NX	4	B	15		27/07/2018	15:43	247.032	60
BS_SW_0604_d	4	NX	4	A	15		27/07/2018	15:43	251.605	60
BS_SW_0604_e	4	NX	4	B	15		27/07/2018	15:43	62.237	60
BS_SW_0604_f	4	NX	4	A	15		27/07/2018	15:43	66.334	60
BS_SW_0604_g	4	NX	4	B	15		27/07/2018	15:43	60.45	60
BS_SW_0604_h	4	NX	4	A	15		27/07/2018	15:43	237.152	60
BS_SW_0604_i	4	NX	4	B	15		27/07/2018	15:43	555.118	60
BS_SW_0604_j	4	NX	4	A	15		27/07/2018	15:43	514.656	60
BS_SW_0605_a	4	NX	1	B	60	Lost from view, low.	28/07/2018	14:50	1056.391	60
BS_SW_0605_b	4	NX	1	A	15		28/07/2018	14:50	281.335	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0606_a	4	NX	1	B	60	Lost behind mound.	28/07/2018	15:06	631.253	60
BS_SW_0606_b	4	NX	1	A	30		28/07/2018	15:06	318.62	30
BS_SW_0607	4	Tern sp.	4	A	30	Probably CN. Distant.	28/07/2018	15:07	880.578	120
BS_SW_0608_a	4	GJ	7	A	30	Lost to west.	28/07/2018	15:10	258.73	210
BS_SW_0608_b	4	GJ	7	B	45		28/07/2018	15:10	958.304	315
BS_SW_0608_c	4	GJ	7	A	15		28/07/2018	15:10	352.647	105
BS_SW_0609	4	RH	2	C	105	Heading to coast.	28/07/2018	15:12	2701.94	210
BS_SW_0610	4	NX	4	B	30	Display flights, left viewshed.	28/07/2018	15:56	574.813	120
BS_SW_0611_a	4	RH	1	C	75	Looked to drop into Loch ID 53.	28/07/2018	16:23	1932.461	75
BS_SW_0611_b	4	RH	1	B	30		28/07/2018	16:23	630.858	30
BS_SW_0611_c	4	RH	1	A	15		28/07/2018	16:23	197.388	15
BS_SW_0612	4	Tern sp.	5	A	30	Probably CN. Hidden in valley for most of flight.	28/07/2018	16:31	787.31	150
BS_SW_0613_a	4	NX	1	B	30	Lost behind plantation.	28/07/2018	16:33	965.849	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0613_b	4	NX	1	A	15		28/07/2018	16:33	381.562	15
BS_SW_0614_a	4	NX	4	A	15	Display and interaction between birds.	28/07/2018	16:50	133.935	60
BS_SW_0614_b	4	NX	4	B	45		28/07/2018	16:50	1831.218	180
BS_SW_0614_c	4	NX	4	A	15		28/07/2018	16:50	220.3	60
BS_SW_0615_a	4	NX	1	A	15	Chasing HGs around loch.	28/07/2018	16:52	192.849	15
BS_SW_0615_b	4	NX	1	B	15		28/07/2018	16:52	492.225	15
BS_SW_0615_c	4	NX	1	A	30		28/07/2018	16:52	326.982	30
BS_SW_0616_a	4	Tern sp.	1	B	30	Likely CN. Lost over swale.	28/07/2018	16:57	351.337	30
BS_SW_0616_b	4	Tern sp.	1	A	15		28/07/2018	16:57	82.947	15
BS_SW_0617_a	4	NX	1	B	60	Soaring flight.	28/07/2018	17:15	1585.515	60
BS_SW_0617_b	4	NX	1	A	30		28/07/2018	17:15	239.454	30
BS_SW_0618_a	4	NX	3	A	15	Hanging in wind. Slow flight speed. Left viewshed.	28/07/2018	17:20	143.924	45
BS_SW_0618_b	4	NX	3	B	60		28/07/2018	17:20	509.927	180

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0619_a	4	NX	1	B	30	Left viewshed.	28/07/2018	17:23	336.457	30
BS_SW_0619_b	4	NX	1	A	15		28/07/2018	17:23	84.32	15
BS_SW_0620	4	Tern sp.	3	B	45	Flying downwind towards CN breeding loch.	28/07/2018	17:31	1166.365	135
BS_SW_0621	4	RH	2	B	105	Calling. Left viewshed, heading for coast.	28/07/2018	17:33	2328.135	210
BS_SW_0622	4	Tern sp.	1	C	45	High, towards CN breeding loch.	28/07/2018	17:36	1579.359	45
BS_SW_0623	4	NX	1	A	45	Lost low.	28/07/2018	17:45	631.308	45
BS_SW_0624_a	8	NX	2	B	60	Lost in swale. Looked to land.	30/07/2018	16:05	1332.08	120
BS_SW_0624_b	8	NX	2	A	15		30/07/2018	16:05	392.956	30
BS_SW_0625	8	CN	1	A	60	Left viewshed.	30/07/2018	16:15	1150.596	60
BS_SW_0626	8	CN	5	A	45	Lost behind mound.	30/07/2018	16:17	887.765	225
BS_SW_0627_a	8	NX	1	B	60	Holding flight in wind. Lost in swale.	30/07/2018	16:50	1249.829	60
BS_SW_0627_b	8	NX	1	A	15		30/07/2018	16:50	237.765	15
BS_SW_0628	8	HH	1	A	120	Ringtail hunting in plantation.	30/07/2018	17:11	2240.325	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0629	8	CN	1	A	30	Left viewshed.	30/07/2018	17:25	354.107	30
BS_SW_0630_a	8	NX	1	B	60	Lost behind mound.	30/07/2018	17:55	1112.569	60
BS_SW_0630_b	8	NX	1	A	15		30/07/2018	17:55	173.406	15
BS_SW_0631_a	8	ML	1	A	15	Female. Low hunting dive out of view.	30/07/2018	18:06	924.319	15
BS_SW_0631_b	8	ML	1	B	30		30/07/2018	18:06	207.445	30
BS_SW_0632_a	8	NX	2	A	15	Lost behind plantation.	30/07/2018	18:10	637.894	30
BS_SW_0632_b	8	NX	2	B	45		30/07/2018	18:10	807.283	90
BS_SW_0633	1	RH	1	B	135	Left viewshed.	31/07/2018	07:05	8951.942	135
BS_SW_0634_a	8	NX	1	A	45	Lost over plantation.	30/07/2018	18:29	575.704	45
BS_SW_0634_b	8	NX	1	B	30		30/07/2018	18:29	302.312	30
BS_SW_0635_a	1	RH	1	B	75	Left viewshed.	31/07/2018	08:00	1809.774	75
BS_SW_0635_b	1	RH	1	C	45		31/07/2018	08:00	554.651	45
BS_SW_0636	1	ML	1	A	15	Probable female. Low, fast hunting flight.	31/07/2018	08:04	368.062	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0637	1	RH	2	B	45	Left viewshed.	31/07/2018	08:20	1571.364	90
BS_SW_0638_a	1	RH	1	A	45	Flew from lochan and joined _639. Left viewshed.	31/07/2018	08:21	2711.046	45
BS_SW_0638_b	1	RH	1	B	30		31/07/2018	08:21	1541.643	30
BS_SW_0639	1	RH	2	B	30	Joined by _638. Left viewshed. Probably same birds at _637.	31/07/2018	08:22	2132.931	60
BS_SW_0640_a	1	RH	4	B	60	Calling. Lost from view, high to south.	31/07/2018	08:28	1658.815	240
BS_SW_0640_b	1	RH	4	C	60		31/07/2018	08:28	1104.046	240
BS_SW_0641_a	1	RH	3	B	45	Hanging in wind, then flew onto Loch Grinneabhat.	31/07/2018	08:30	525.722	135
BS_SW_0641_b	1	RH	3	A	15		31/07/2018	08:30	157.818	45
BS_SW_0642_a	1	RH	3	B	60	Circled then landed on Loch Grinneabhat.	31/07/2018	08:37	2532.648	180
BS_SW_0642_b	1	RH	3	A	45		31/07/2018	08:37	1357.82	135
BS_SW_0643	1	RH	3	B	90	Big, slow circular flight then left viewshed.	31/07/2018	08:40	3743.708	270
BS_SW_0644	1	NX	2	A	45	Left viewshed.	31/07/2018	08:51	1939.672	90
BS_SW_0645_a	1	RH	2	A	15	Left viewshed (probably came off loch).	31/07/2018	09:05	172.551	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0645_b	1	RH	2	B	30		31/07/2018	09:05	739.581	60
BS_SW_0646_a	1	WE	2	B	60	Immatures. Left viewshed, talon grappling.	31/07/2018	09:07	702.47	120
BS_SW_0646_b	1	WE	2	A	15		31/07/2018	09:07	546.069	30
BS_SW_0647_a	1	RH	2	A	15	Flew off Loch Grinneabhat to join _648, then landed on Loch Garbhaig.	31/07/2018	09:10	186.034	30
BS_SW_0647_b	1	RH	2	B	135		31/07/2018	09:10	6849.046	270
BS_SW_0647_c	1	RH	2	A	15		31/07/2018	09:10	720.29	30
BS_SW_0648_a	1	RH	2	A	15	Flew off Loch Grinneabhat to join _647, before heading off north outside the viewshed.	31/07/2018	09:11	205.079	30
BS_SW_0648_b	1	RH	2	B	150		31/07/2018	09:11	6070.566	300
BS_SW_0648_c	1	RH	2	C	180		31/07/2018	09:11	3854.484	360
BS_SW_0648_d	1	RH	2	B	45		31/07/2018	09:11	1737.553	90
BS_SW_0649_a	1	RH	2	B	135	Landed on Loch Grinneabhat.	31/07/2018	09:43	2793.17	270
BS_SW_0649_b	1	RH	2	A	30		31/07/2018	09:43	857.062	60



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0650	3	NX	1	A	30	Landed.	01/08/2018	08:02	275.763	30
BS_SW_0651_a	3	RH	2	B	90	Calling. Landed.	01/08/2018	08:25	3781.641	180
BS_SW_0651_b	3	RH	2	A	15		01/08/2018	08:25	388.139	30
BS_SW_0652	3	NX	1	A	30	Landed / lost from view behind mound.	01/08/2018	08:29	577.348	30
BS_SW_0653	3	NX	1	A	30	Landed.	01/08/2018	08:35	422.106	30
BS_SW_0654	3	NX	1	A	45		01/08/2018	08:45	552.632	45
BS_SW_0655_a	3	RH	2	B	120	Circling until lost from view.	01/08/2018	09:02	3425.75	240
BS_SW_0655_b	3	RH	2	A	30		01/08/2018	09:02	598.18	60
BS_SW_0656	3	RH	1	B	30	Silent.	01/08/2018	09:08	969.928	30
BS_SW_0657_a	3	NX	3	B	60	Chasing each other until lost from view.	01/08/2018	09:31	1757.966	180
BS_SW_0657_b	3	NX	3	A	45		01/08/2018	09:31	536.18	135
BS_SW_0658	3	NX	2	A	60	Different pair to _659.	01/08/2018	09:41	1900.424	120
BS_SW_0659	3	NX	2	A	30	Different pair to _658.	01/08/2018	09:42	342.27	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0660_a	3	WE	1	B	45	Adult. Landed. Different bird to _661.	01/08/2018	09:50	745.581	45
BS_SW_0660_b	3	WE	1	A	15		01/08/2018	09:50	197.388	15
BS_SW_0661	3	WE	1	A	15	Second adult. Sat with _660. Possibly flew into valley at 10:50.	01/08/2018	09:53	293.957	15
BS_SW_0662	3	RH	1	B	105	Possibly came from breeding lochan. Outbound flight.	01/08/2018	09:58	2835.467	105
BS_SW_0663	3	NX	2	A	60	Lost from view behind mound.	01/08/2018	10:11	728.864	120
BS_SW_0664	3	HH	1	A	180	Ringtail. Appeared to be immature, hunting around plantation.	01/08/2018	10:31	3786.033	180
BS_SW_0665	3	NX	1	A	30		01/08/2018	10:58	307.032	30
BS_SW_0666	6	EA	1	B	60	Adult, holding itself in the wind, then dived out of view.	07/08/2018	14:45	308.647	60
BS_SW_0667	6	NX	1	B	120	Lost behind Beinn a Bhuna.	07/08/2018	15:00	737.856	120
BS_SW_0668	6	EA	1	B	30	Prob. same bird as _666. Lost behind Bhuna.	07/08/2018	15:12	406.939	30
BS_SW_0670	6	EA	1	B	15	Cooperatively hunting gulls in colony with _669.	07/08/2018	15:16	151.487	15
BS_SW_0671_a	6	BV	1	B	45	Adult. Landed on Loch nan Eilean.	07/08/2018	16:27	723.523	45
BS_SW_0671_b	6	BV	1	A	15		07/08/2018	16:27	285.448	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0672_a	6	EA	1	C	30	Drifting until lost from view.	07/08/2018	16:51	217.847	30
BS_SW_0672_b	6	EA	1	B	15		07/08/2018	16:51	156.425	15
BS_SW_0673	6	EA	1	B	90	Flying into wind, harrier-like, until lost behind Bhuna.	07/08/2018	16:57	552.962	90
BS_SW_0674	2	NX	1	B	75	Lost from view in haze.	08/08/2018	14:14	889.202	75
BS_SW_0675	2	NX	1	B	45	Lost from view behind Beinn Thulabaigh, mobbing/chasing an HG.	08/08/2018	14:43	1868.864	45
BS_SW_0676_a	2	RH	1	C	15	Landed on Loch ID 22.	08/08/2018	14:52	562.508	15
BS_SW_0676_b	2	RH	1	B	15		08/08/2018	14:52	409.304	15
BS_SW_0676_c	2	RH	1	A	15		08/08/2018	14:52	420.638	15
BS_SW_0677	2	NX	1	B	15	Lost behind hill, mobbing GB.	08/08/2018	16:01	265.91	15
BS_SW_0678	2	NX	1	A	60	Lost low behind hill.	08/08/2018	16:04	1310.4	60
BS_SW_0679	8	NX	1	A	15	Lost from view, low.	08/08/2018	13:15	157.067	15
BS_SW_0680_a	8	ML	1	B	15	Male. Lost from view in burn / dip.	08/08/2018	13:25	244.076	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0680_b	8	ML	1	A	15		08/08/2018	13:25	254.943	15
BS_SW_0681	8	BV	2	B	60	40 secs of flight in viewshed.	08/08/2018	13:36	1202.772	120
BS_SW_0682	8	BV	2	A	15	Landed on Loch Uisg an-t Soluis.	08/08/2018	13:45	120.698	30
BS_SW_0683	8	ML	1	A	30	NX (_976) chased ML, then ML mobbed NX. Possibly dropped food. NX landed. ML lost to view.	08/08/2018	13:46	347.165	30
BS_SW_0684	8	CN	2	A	15	Lost from view in dip / burn.	08/08/2018	13:58	159.346	30
BS_SW_0685	8	CN	1	A	15	Lost from view in dip / burn.	08/08/2018	14:51	183.287	15
BS_SW_0686	8	CN	1	A	15	Lost from view in dip / burn.	08/08/2018	15:00	182.64	15
BS_SW_0687_a	8	EA	1	C	90	Mobbed by a number of RN, HC, GB, LB, HG & 2xNX (not mapped). Lost from view, high towards tip.	08/08/2018	15:39	1060.494	90
BS_SW_0687_b	8	EA	1	D	210		08/08/2018	15:39	843.165	210
BS_SW_0688_a	3	NX	2	C	15	Left viewshed.	10/08/2018	14:46	272.665	30
BS_SW_0688_b	3	NX	2	B	120		10/08/2018	14:46	1908.442	240
BS_SW_0689_a	3	NX	1	B	240	Left viewshed. Mobbed by GB.	10/08/2018	15:03	4609.27	240

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0689_b	3	NX	1	A	45		10/08/2018	15:03	1598.947	45
BS_SW_0690_a	3	RH	3	B	90	Left viewshed.	10/08/2018	15:22	2098.067	270
BS_SW_0690_b	3	RH	3	C	45		10/08/2018	15:22	1515.857	135
BS_SW_0691_a	3	WE	1	B	420	Adult w second adult (mapped as incidental as never entered viewshed until 15:52 (see flight _692).	10/08/2018	15:30	5961.407	420
BS_SW_0691_b	3	WE	1	C	180	Outwith viewshed.	10/08/2018	15:30	2103.834	180
BS_SW_0691_c	3	WE	1	D	1000	560 secs within viewshed.	10/08/2018	15:30	12109.73	1000
BS_SW_0692	3	WE	2	D	120	Two adults interacting. Flew south outwith viewshed, high, and lost to view.	10/08/2018	15:52	1435.831	240
BS_SW_0693	3	NX	1	A	15	Juvenile landed next to adult.	10/08/2018	16:02	142.824	15
BS_SW_0694	3	NX	1	A	15	Landed.	10/08/2018	16:17	171.775	15
BS_SW_0695	3	NX	1	A	45	Mobbed by 2xGB, then landed.	10/08/2018	16:48	776.655	45
BS_SW_0696_a	3	EA	1	D	120	Adult. Gliding but losing height, hunting. Lost from view. Mobbed by gulls, corvids & skuas.	10/08/2018	16:55	2829.03	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0696_b	3	EA	1	C	30		10/08/2018	16:55	574.598	30
BS_SW_0696_c	3	EA	1	B	15		10/08/2018	16:55	199.068	15
BS_SW_0697	3	NX	1	A	15	Landed.	10/08/2018	17:04	293.471	15
BS_SW_0698_a	3	NX	1	A	15	Left viewshed.	10/08/2018	17:11	202.545	15
BS_SW_0698_b	3	NX	1	B	30		10/08/2018	17:11	1045.219	30
BS_SW_0699_a	3	WE	1	B	105	Adult mobbed by HG & GB. Landed.	10/08/2018	17:13	1373.073	105
BS_SW_0699_b	3	WE	1	A	15		10/08/2018	17:13	342.937	15
BS_SW_0700_a	3	NX	2	B	150	Landed.	10/08/2018	17:16	1645.426	300
BS_SW_0700_b	3	NX	2	A	60		10/08/2018	17:16	1230.612	120
BS_SW_0701	3	NX	1	A	30	Landed.	10/08/2018	17:30	940.343	30
BS_SW_0702	3	NX	1	A	45	Left viewshed.	10/08/2018	17:40	922.006	45
BS_SW_0703_a	7	NX	1	A	30		12/08/2018	15:28	601.337	30
BS_SW_0703_b	7	NX	1	B	60		12/08/2018	15:28	860.642	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0703_c	7	NX	1	A	30		12/08/2018	15:28	509.43	30
BS_SW_0704	1	NX	2	A	75	Adult plus prob. juvenile. Left viewshed.	12/08/2018	09:58	886.136	150
BS_SW_0705	1	DN	1	A	15	Flushed by 2xNX (record _704). Left viewshed, alarm calling.	12/08/2018	09:58	297.519	15
BS_SW_0706	1	GP	1	A	15	Flew to next knoll as NX passed overhead.	12/08/2018	10:00	77.714	15
BS_SW_0707	1	NX	1	A	30	Adult. Divebombed observer briefly, called, then lost to view in dip.	12/08/2018	10:05	609.542	30
BS_SW_0708	1	NX	1	A	15	RN mobbed NX, which then landed.	12/08/2018	10:09	150.815	15
BS_SW_0709	1	GP	2	A	15	Lost from view in dip.	12/08/2018	10:15	197.593	30
BS_SW_0710	1	RH	1	B	30	Calling. Left viewshed. Took 15-30s to locate. May have came off Loch ID 4.	12/08/2018	10:20	1168.873	30
BS_SW_0711_a	1	RH	1	B	75	Calling loudly. Flew out to sea. Prob. left Loch ID 4.	12/08/2018	10:43	1901.414	75
BS_SW_0711_b	1	RH	1	C	45		12/08/2018	10:43	1053.718	45
BS_SW_0712	1	NX	1	A	15	Lost from view behind knoll.	12/08/2018	10:48	321.588	15
BS_SW_0713_a	1	RH	1	B	30	Calling loudly. Flew out to sea. Prob. left Loch ID 4.	12/08/2018	10:58	744.594	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0713_b	1	RH	1	C	150		12/08/2018	10:58	3112.353	150
BS_SW_0714	1	NX	1	A	45	Flew directly at observer, low, twice, then left viewshed. Poss. same bird as _707.	12/08/2018	11:17	756.667	45
BS_SW_0715	1	NX	2	A	15	Left viewshed.	12/08/2018	11:19	271.016	30
BS_SW_0716	1	GP	1	A	15	Adult male. Same bird as _706. Landed.	12/08/2018	11:23	88.274	15
BS_SW_0717	1	GP	2	A	15	Lost from view in dip (inc _716).	12/08/2018	11:34	232.01	30
BS_SW_0718_a	1	NX	1	C	15	Left viewshed.	12/08/2018	11:37	305.952	15
BS_SW_0718_b	1	NX	1	B	45		12/08/2018	11:37	648.218	45
BS_SW_0718_c	1	NX	1	A	15		12/08/2018	11:37	192.354	15
BS_SW_0719_a	1	NX	1	B	75	Left viewshed.	12/08/2018	11:46	2003.626	75
BS_SW_0719_b	1	NX	1	A	30		12/08/2018	11:46	323.527	30
BS_SW_0720	1	NX	1	A	45	Lost low against hillock in haze.	12/08/2018	12:04	662.325	45
BS_SW_0721_a	1	GP	2	B	60	Presume landed. Lost, low, around lochan.	12/08/2018	13:15	1737.205	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0721_b	1	GP	2	A	15		12/08/2018	13:15	546.027	30
BS_SW_0722_a	1	NX	1	C	90	Left viewshed.	12/08/2018	13:29	1723.122	90
BS_SW_0722_b	1	NX	1	B	45		12/08/2018	13:29	560.479	45
BS_SW_0722_c	1	NX	1	A	30		12/08/2018	13:29	344.654	30
BS_SW_0723_a	1	NX	1	B	45	Landed.	12/08/2018	13:49	766.909	45
BS_SW_0723_b	1	NX	1	A	15		12/08/2018	13:49	258.936	15
BS_SW_0724_a	1	NX	1	B	30	Landed next to _723.	12/08/2018	13:50	423.784	30
BS_SW_0724_b	1	NX	1	A	15		12/08/2018	13:50	165.439	15
BS_SW_0725	1	GP	1	A	15	Adult male. Calling. Lost from view in dip.	12/08/2018	14:00	285.357	15
BS_SW_0726	1	GP	2	A	45	2x juveniles. Calling. Left viewshed.	12/08/2018	14:01	768.587	90
BS_SW_0727	1	GP	2	B	255	Left viewshed. Struggled flying into strong winds.	12/08/2018	14:44	4669.244	510
BS_SW_0728	1	NX	1	B	105	Lost from view in dip.	12/08/2018	14:53	2506.586	105
BS_SW_0729_a	1	NX	1	B	15	Landed.	12/08/2018	14:53	262.728	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0729_b	1	NX	1	A	15		12/08/2018	14:53	268.256	15
BS_SW_0730_a	1	RH	1	A	15	Flew from lochan in front of VP1 to Loch ID 4.	12/08/2018	15:08	404.455	15
BS_SW_0730_b	1	RH	1	B	45		12/08/2018	15:08	1311.286	45
BS_SW_0730_c	1	RH	1	A	15		12/08/2018	15:08	335.345	15
BS_SW_0731_a	1	NX	1	B	30	Left viewshed.	12/08/2018	15:13	486.851	30
BS_SW_0731_b	1	NX	1	C	75		12/08/2018	15:13	1118.024	75
BS_SW_0732	6	HH	1	A	30	Male, hunting.	13/08/2018	12:37	422.656	30
BS_SW_0733	8	BV	2	A	15	Saw flight late, as birds landed.	13/08/2018	17:47	228.846	30
BS_SW_0734	8	CN	1	B	30	Mobbed GB the lost from view along river.	13/08/2018	18:06	497.758	30
BS_SW_0735	8	RH	2	B	135	Lost from view against hillside. Both birds likely landed on Loch a Chlachain.	13/08/2018	18:08	3538.836	270
BS_SW_0736_a	8	NX	1	A	15	Lost from view behind hillock.	13/08/2018	18:11	191.428	15
BS_SW_0736_b	8	NX	1	B	30		13/08/2018	18:11	321.69	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0736_c	8	NX	1	A	15		13/08/2018	18:11	214.035	15
BS_SW_0737_a	8	RH	1	B	30	Landed on Loch ID 53.	13/08/2018	18:13	1134.42	30
BS_SW_0737_b	8	RH	1	A	15		13/08/2018	18:13	428.536	15
BS_SW_0738_a	8	NX	1	C	60	Mobbed GB then landed.	13/08/2018	18:20	601.18	60
BS_SW_0738_b	8	NX	1	B	30		13/08/2018	18:20	505.87	30
BS_SW_0738_c	8	NX	1	A	15		13/08/2018	18:20	448.261	15
BS_SW_0739_a	8	RH	1	A	15	Came off Loch ID 53. Left viewshed, heading north past quarry, high.	13/08/2018	18:24	657.241	15
BS_SW_0739_b	8	RH	1	B	30		13/08/2018	18:24	1216.011	30
BS_SW_0739_c	8	RH	1	C	45		13/08/2018	18:24	659.087	45
BS_SW_0740_a	8	NX	1	B	60	Lost from view behind hill. Possibly landed on Loch Breag Cnoc a Choilich.	13/08/2018	18:45	767.066	60
BS_SW_0740_b	8	NX	1	A	15		13/08/2018	18:45	162.11	15
BS_SW_0741_a	8	RH	1	B	45	Landed on Loch ID 53.	13/08/2018	18:53	1001.041	45



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0741_b	8	RH	1	A	15		13/08/2018	18:53	232.473	15
BS_SW_0742	8	HH	1	A	30	Adult male. Lost from view along burn.	13/08/2018	19:20	410.301	30
BS_SW_0743	8	RH	1	B	75	Left viewshed heading for coast. Probably came off Loch ID 53.	13/08/2018	20:00	1866.038	75
BS_SW_0744	8	BV	1	A	15	Came off loch and flew over observers head. One of _733.	13/08/2018	20:14	267.112	15
BS_SW_0745	8	BV	1	A	45	Came off loch and left viewshed. One of _733.	13/08/2018	20:15	1164.872	45
BS_SW_0746	8	RH	1	B	90	Left viewshed.	13/08/2018	20:20	2697.429	90
BS_SW_0747_a	8	HH	1	A	90	Prob. juv. male. Lost from view amongst trees, quartering.	13/08/2018	20:23	1968.734	90
BS_SW_0747_b	8	HH	1	B	30		13/08/2018	20:23	421.599	30
BS_SW_0747_c	8	HH	1	A	180		13/08/2018	20:23	663.948	180
BS_SW_0748_a	8	RH	1	B	75	Landed on lloch Druim nan Sgorach. Very vocal. Sang from loch, once landed.	13/08/2018	20:30	1508.93	75
BS_SW_0748_b	8	RH	1	A	15		13/08/2018	20:30	473.335	15
BS_SW_0749	8	RH	2	B	45	Left viewshed.	13/08/2018	20:34	1401.064	90

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0750_a	4	RH	2	B	90	Calling. Left viewshed.	13/08/2018	13:57	4025.697	180
BS_SW_0750_b	4	RH	2	C	45		13/08/2018	13:57	941.918	90
BS_SW_0751	4	RH	2	B	45	Calling. Landed on Loch Leadharain.	13/08/2018	14:02	2185.081	90
BS_SW_0752_a	4	NX	1	B	45	Calling. Left viewshed.	13/08/2018	14:05	780.54	45
BS_SW_0752_b	4	NX	1	A	15		13/08/2018	14:05	424.992	15
BS_SW_0753_a	4	NX	2	A	15	Calling and interacting. Left viewshed.	13/08/2018	14:10	241.41	30
BS_SW_0753_b	4	NX	2	B	30		13/08/2018	14:10	697.985	60
BS_SW_0753_c	4	NX	2	A	15		13/08/2018	14:10	218.181	30
BS_SW_0754_a	4	RH	1	A	15	Calling. Flew off Loch Leadharain and prob. returned (lost from view in dip where loch lies).	13/08/2018	14:12	620.879	15
BS_SW_0754_b	4	RH	1	B	165		13/08/2018	14:12	7933.188	165
BS_SW_0754_c	4	RH	1	A	15		13/08/2018	14:12	690.049	15
BS_SW_0755	4	NX	4	B	225	Interacting / chasing each other. Left viewshed.	13/08/2018	14:22	3527.348	900

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0756	4	RH	2	B	30	Calling. Left viewshed.	13/08/2018	14:26	1431.412	60
BS_SW_0757	4	NX	2	A	30	Left viewshed.	13/08/2018	14:30	395.294	60
BS_SW_0758	4	RH	2	C	255	Calling. Left viewshed.	13/08/2018	14:32	13959.44	510
BS_SW_0759	4	GJ	6	A	15	Appeared to come off ground, calling. Left viewshed.	13/08/2018	14:40	288.587	90
BS_SW_0760	4	NX	2	A	30	Came off ground and mobbed RN until it left viewshed.	13/08/2018	14:53	899.094	60
BS_SW_0761_a	4	NX	1	A	45	Landed next to another NX.	13/08/2018	14:56	597.777	45
BS_SW_0761_b	4	NX	1	B	45		13/08/2018	14:56	799.683	45
BS_SW_0761_c	4	NX	1	A	60		13/08/2018	14:56	1332.481	60
BS_SW_0762	4	NX	2	A	30	Lost from view amongst birds around tip.	13/08/2018	14:58	540.163	60
BS_SW_0763_a	4	NX	1	B	45	Left viewshed. Chased 7xNX around VP (flights of these birds low and brief so not mapped).	13/08/2018	15:10	880.455	45
BS_SW_0763_b	4	NX	1	A	45		13/08/2018	15:10	1011.34	45
BS_SW_0763_c	4	NX	1	B	60		13/08/2018	15:10	944.465	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0763_d	4	NX	1	C	90		13/08/2018	15:10	2009.183	90
BS_SW_0764	4	NX	1	B	30	Stopped mapping bird to follow WE (_763).	13/08/2018	15:30	562.607	30
BS_SW_0765_a	4	WE	1	B	60	Immature. Mobbed by 7xNX (not mapped but followed WE at 50m height). Lost in trees.	13/08/2018	15:30	854.126	60
BS_SW_0765_b	4	WE	1	A	75		13/08/2018	15:30	1372.698	75
BS_SW_0766	4	RH	1	B	60	Left viewshed, heading for coast.	13/08/2018	15:54	2035.626	60
BS_SW_0767_a	4	WE	1	B	45	Immature. Left viewshed, whilst mobbed by 2xGB. Same bird as _763.	13/08/2018	16:01	556.747	45
BS_SW_0767_b	4	WE	1	C	45		13/08/2018	16:01	779.896	45
BS_SW_0767_c	4	WE	1	B	45		13/08/2018	16:01	543.354	45
BS_SW_0767_d	4	WE	1	C	60		13/08/2018	16:01	1388.399	60
BS_SW_0768	4	RH	1	B	75	Only 15s in viewshed. Bird appeared to be heading towards Loch ID 46.	13/08/2018	16:18	2553.555	75
BS_SW_0769	4	NX	1	A	30	Lost from view, low, along Abhainn Ghrioda.	13/08/2018	16:23	605.965	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0770	4	RH	1	B	135	Lost from view behind Sithean Mor, carrying fish. Likely heading to Loch ID 53 or 46.	13/08/2018	16:30	2573.576	135
BS_SW_0771	4	NX	1	B	30	Left viewshed.	13/08/2018	16:40	409.443	30
BS_SW_0772	5	ML	1	A	30	Male.	14/08/2018	10:10	178.508	30
BS_SW_0773	5	ML	1	A	45	Female. Hunting.	14/08/2018	11:05	415.405	45
BS_SW_0774	4	NX	1	A	15	Lost from view behind ridge.	14/08/2018	10:22	260.004	15
BS_SW_0775	4	RH	2	B	30	Left viewshed, calling.	14/08/2018	10:39	1268.091	60
BS_SW_0776	4	RH	2	B	30	Lost from view behind tip.	14/08/2018	10:40	1981.203	60
BS_SW_0777	4	NX	1	A	30	Lost behind ridge.	14/08/2018	10:45	489.496	30
BS_SW_0778	4	NX	1	A	15	Landed.	14/08/2018	10:47	170.904	15
BS_SW_0779	4	NX	1	B	30	Appeared to land near Loch a Leadharain.	14/08/2018	10:47	1097.885	30
BS_SW_0780_a	4	NX	1	B	30	Mobbed NX on ground.	14/08/2018	11:19	430.114	30
BS_SW_0780_b	4	NX	1	A	15		14/08/2018	11:19	498.652	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0780_c	4	NX	1	B	30		14/08/2018	11:19	546.023	30
BS_SW_0781	4	NX	3	B	45	Two birds joined _780, then left viewshed.	14/08/2018	11:21	1293.284	135
BS_SW_0782_a	4	NX	2	B	15	Lost low against hillside.	14/08/2018	11:27	387.891	30
BS_SW_0782_b	4	NX	2	A	15		14/08/2018	11:27	295.447	30
BS_SW_0783	4	NX	2	B	210	Left viewshed.	14/08/2018	11:38	2745.276	420
BS_SW_0784	4	RH	1	B	75	Left viewshed. Possibly came from Loch ID 53.	14/08/2018	11:43	2577.641	75
BS_SW_0785	4	NX	1	A	60	Lost from view behind hillock.	14/08/2018	11:50	1034.775	60
BS_SW_0786	4	NX	1	A	30	Lost from view, low, along Abhainn Ghrioda.	14/08/2018	11:57	792.274	30
BS_SW_0787	4	NX	1	A	45	Mobbed by RN from perch. Landed on knoll nearby.	14/08/2018	12:01	392.434	45
BS_SW_0788_a	4	GJ	2	A	15	Took off from ground, calling, then left viewshed.	14/08/2018	12:04	169.85	30
BS_SW_0788_b	4	GJ	2	B	15		14/08/2018	12:04	226.061	30
BS_SW_0789	4	NX	1	A	30	Lost from view behind hillock.	14/08/2018	12:08	591.641	30
BS_SW_0790	4	GJ	5	A	15	Landed on ridge.	14/08/2018	12:11	525.403	75

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0791	4	NX	2	A	45	Landed out of sight.	14/08/2018	12:14	375.331	90
BS_SW_0792_a	4	RH	2	B	30	Calling. Left viewshed. Prob. came off Loch a Leadharain.	14/08/2018	12:16	681.382	60
BS_SW_0792_b	4	RH	2	C	45		14/08/2018	12:16	1017.514	90
BS_SW_0793	4	GJ	7	A	30	Came off ground. Prob. landed on Loch a Leadharain.	14/08/2018	12:19	488.652	210
BS_SW_0794_a	4	RH	1	C	60	Lost from view behind summit of Sithean Mor. Poss. landed on Loch ID 53.	14/08/2018	12:27	1308.482	60
BS_SW_0794_b	4	RH	1	B	60		14/08/2018	12:27	951.712	60
BS_SW_0795_a	4	NX	1	B	15	Lost from view in dip. Appeared to land in gull roost after being mobbed by 2xRN.	14/08/2018	12:44	375.524	15
BS_SW_0795_b	4	NX	1	A	15		14/08/2018	12:44	327.325	15
BS_SW_0796	4	NX	2	B	105	Left viewshed.	14/08/2018	12:48	2005.957	210
BS_SW_0797_a	4	RH	1	C	45	Left viewshed, heading towards coast.	14/08/2018	12:55	990.638	45
BS_SW_0797_b	4	RH	1	B	30		14/08/2018	12:55	838.874	30
BS_SW_0798_a	4	NX	1	A	45	Lost from view, low. Poss. landed.	14/08/2018	12:57	542.242	45

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0798_b	4	NX	1	B	15		14/08/2018	12:57	620.466	15
BS_SW_0798_c	4	NX	1	A	30		14/08/2018	12:57	678.977	30
BS_SW_0799	4	GJ	4	B	15	Calling. Left viewshed.	14/08/2018	12:59	433.763	60
BS_SW_0800	8	RH	1	A	60	Presume landed.	15/08/2018	10:20	1325.038	60
BS_SW_0801	8	RH	1	A	30	Presume landed.	15/08/2018	10:46	712.002	30
BS_SW_0802_a	8	BV	2	B	45	Presume landed.	15/08/2018	11:25	723.908	90
BS_SW_0802_b	8	BV	2	A	45		15/08/2018	11:25	833.826	90
BS_SW_0803_a	8	RH	1	B	30	Presume landed.	15/08/2018	11:34	528.139	30
BS_SW_0803_b	8	RH	1	A	30		15/08/2018	11:34	747.421	30
BS_SW_0804	8	NX	1	A	15		15/08/2018	11:40	313.123	15
BS_SW_0805	8	BV	2	A	15	Presume landed.	15/08/2018	11:44	281.02	30
BS_SW_0806_a	8	BV	4	A	15	Left Loch Uisg an-t Soluis.	15/08/2018	12:02	423.557	60
BS_SW_0806_b	8	BV	4	B	45		15/08/2018	12:02	1051.226	180



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0806_c	8	BV	4	C	90		15/08/2018	12:02	2174.169	360
BS_SW_0807_a	8	RH	1	B	45	Presume landed.	15/08/2018	12:07	1122.967	45
BS_SW_0807_b	8	RH	1	A	45		15/08/2018	12:07	560.425	45
BS_SW_0808_a	8	BV	2	B	45	Presume landed.	15/08/2018	12:13	836.683	90
BS_SW_0808_b	8	BV	2	A	15		15/08/2018	12:13	336.386	30
BS_SW_0809	8	NX	1	A	30		15/08/2018	12:16	567.018	30
BS_SW_0810_a	2	NX	1	C	60	Lost from view behind Airigh an Aip.	15/08/2018	10:22	978.735	60
BS_SW_0810_b	2	NX	1	B	30		15/08/2018	10:22	337.278	30
BS_SW_0810_c	2	NX	1	A	30		15/08/2018	10:22	859.031	30
BS_SW_0810_d	2	NX	1	B	30		15/08/2018	10:22	521.574	30
BS_SW_0810_e	2	NX	1	C	90		15/08/2018	10:22	1318.411	90
BS_SW_0810_f	2	NX	1	B	45		15/08/2018	10:22	691.785	45
BS_SW_0810_g	2	NX	1	A	15		15/08/2018	10:22	217.539	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0811_a	2	NX	2	C	30	Lost from view behind hill. Chased eachother for most of flight.	15/08/2018	11:26	769.422	60
BS_SW_0811_b	2	NX	2	B	15		15/08/2018	11:26	573.135	30
BS_SW_0811_c	2	NX	2	C	30		15/08/2018	11:26	917.56	60
BS_SW_0811_d	2	NX	2	B	15		15/08/2018	11:26	775.411	30
BS_SW_0812	2	RH	1	A	30	Lost from view behind hill.	15/08/2018	11:50	601.719	30
BS_SW_0813	2	NX	2	B	45	Left viewshed.	15/08/2018	12:06	902.758	90
BS_SW_0814	1	GP	1	A	15		17/08/2018	18:05	222.771	15
BS_SW_0815	1	GP	1	A	15		17/08/2018	17:38	242.367	15
BS_SW_0816_a	1	RH	1	B	30		17/08/2018	19:14	610.167	30
BS_SW_0816_b	1	RH	1	C	120		17/08/2018	19:14	2493.363	120
BS_SW_0817	3	NX	1	A	30		17/08/2018	07:25	569.665	30
BS_SW_0818	3	NX	2	A	30		17/08/2018	07:48	588.575	60
BS_SW_0819	3	NX	1	A	75		17/08/2018	08:15	1264.774	75

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0820	3	NX	1	A	30		17/08/2018	08:27	654.302	30
BS_SW_0821	3	NX	1	A	60		17/08/2018	08:37	1174.08	60
BS_SW_0822_a	3	NX	2	C	60		17/08/2018	09:04	1045.792	120
BS_SW_0822_b	3	NX	2	B	45		17/08/2018	09:04	769.693	90
BS_SW_0823	3	NX	1	A	60		17/08/2018	09:36	850.356	60
BS_SW_0824_a	3	RH	1	D	15		17/08/2018	10:10	322.558	15
BS_SW_0824_b	3	RH	1	C	75		17/08/2018	10:10	931.053	75
BS_SW_0824_c	3	RH	1	B	15		17/08/2018	10:10	261.21	15
BS_SW_0825_a	5	NX	2	B	135	Circling, soaring flight. Lost from view, low to south.	22/08/2018	14:20	1779.583	270
BS_SW_0825_b	5	NX	2	A	15		22/08/2018	14:20	69.311	30
BS_SW_0826_a	5	NX	4	B	120	High, soaring flight. Lost to north.	22/08/2018	14:28	1790.858	480
BS_SW_0826_b	5	NX	4	C	75		22/08/2018	14:28	2349.633	300
BS_SW_0827_a	5	NX	2	B	30	Lost behind mound.	22/08/2018	14:32	352.213	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0827_b	5	NX	2	A	45		22/08/2018	14:32	465.059	90
BS_SW_0828_a	5	NX	2	B	60	Lost low, behind wind farm.	22/08/2018	14:45	903.103	120
BS_SW_0828_b	5	NX	2	A	45		22/08/2018	14:45	871.672	90
BS_SW_0829	2	HH	1	A	360	Prob. adult female. Quartering and interacting with _830 and _831. Landed.	23/08/2018	07:25	1142.711	360
BS_SW_0830	2	HH	1	A	360	Ringtail (prob. juvenile), interacting with _829 and _831. Landed.	23/08/2018	07:25	1077.784	360
BS_SW_0831_a	2	HH	1	B	30	Ringtail (prob. juv. male), interacting with _829 and _830. Landed.	23/08/2018	07:27	499.442	30
BS_SW_0831_b	2	HH	1	A	210		23/08/2018	07:27	759.267	210
BS_SW_0832	2	HH	1	A	135	Same bird as _830, flew towards Loch na Beiste Bige with _830, interacting. Lost from view - landed?	23/08/2018	07:34	1184.295	135
BS_SW_0833	2	HH	1	A	135	Same bird as _829, flew towards Loch na Beiste Bige with _830, interacting. Lost from view - landed?	23/08/2018	07:34	981.775	135
BS_SW_0834	2	RH	1	A	15	Landed on Loch ID 22.	23/08/2018	07:55	119.512	15
BS_SW_0835	2	HH	1	A	45	Ringtail, lost from view in swale.	23/08/2018	08:11	1061.458	45





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0836	2	RH	1	B	120	Left viewshed.	23/08/2018	08:32	5395.237	120
BS_SW_0837_a	2	RH	2	A	60	Poss. flew from Loch ID 22. Lost from view in sun.	23/08/2018	08:55	1792.396	120
BS_SW_0837_b	2	RH	2	B	75		23/08/2018	08:55	2138.276	150
BS_SW_0838	2	RH	1	A	15		23/08/2018	10:05	145.905	15
BS_SW_0839	3	RH	1	B	90	Flew in from east, low, onto Loch ID 22.	24/08/2018	10:30	4268.49	90
BS_SW_0840	3	NX	1	A	45		24/08/2018	10:32	722.786	45
BS_SW_0841	3	NX	2	A	60		24/08/2018	10:55	655.886	120
BS_SW_0842_a	3	EA	1	C	180	Adult. Mostly well out of viewshed, but part of flight within (60s at HB-D).	24/08/2018	11:20	1898.171	180
BS_SW_0842_b	3	EA	1	D	130		24/08/2018	11:20	3122.438	130
BS_SW_0842_c	3	EA	1	C	90		24/08/2018	11:20	2131.844	90
BS_SW_0843	3	RH	2	C	165	Holding itself into view (approx. 70s within viewshed. Rest of flight outwith).	24/08/2018	11:34	5338.525	330
BS_SW_0844	3	NX	1	A	75	Juvenile.	24/08/2018	11:41	1127.666	75

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0845_a	3	NX	2	A	45	Around nesting area with loafing chick.	24/08/2018	12:14	708.932	90
BS_SW_0845_b	3	NX	2	B	30		24/08/2018	12:14	464.146	60
BS_SW_0845_c	3	NX	2	A	30		24/08/2018	12:14	245.448	60
BS_SW_0846_a	3	NX	1	A	15	Hanging in wind over moor, then landed.	24/08/2018	12:48	247.074	15
BS_SW_0846_b	3	NX	1	B	120		24/08/2018	12:48	998.078	120
BS_SW_0846_c	3	NX	1	A	15		24/08/2018	12:48	100.72	15
BS_SW_0847_a	3	NX	1	A	15		24/08/2018	12:57	108.247	15
BS_SW_0847_b	3	NX	1	B	30		24/08/2018	12:57	490.008	30
BS_SW_0847_c	3	NX	1	A	30		24/08/2018	12:57	92.301	30
BS_SW_0848	5	HH	1	A	15	Adult male. Hunting. Left viewshed.	24/08/2018	16:20	430.346	15
BS_SW_0849	5	BV	1	B	45	Appeared to come off Loch a Bhuna. Left viewshed.	24/08/2018	18:05	1122.454	45
BS_SW_0850_a	4	NX	1	A	30	Lost behind swale.	25/08/2018	19:15	260.751	30
BS_SW_0850_b	4	NX	1	B	30		25/08/2018	19:15	603.458	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0850_c	4	NX	1	A	15		25/08/2018	19:15	127.804	15
BS_SW_0851	4	RH	1	B	135	Associated with _852. Amended by observer post scan of survey sheet.	25/08/2018	19:25	6580.916	135
BS_SW_0852	4	RH	1	B	135	Associated with _851. Kept waiting for _851 to catch up. Ad. & juv? See above.	25/08/2018	19:25	6509.771	135
BS_SW_0976	8	NX	1	A	30	NX chased ML (_683), then ML mobbed NX. Possibly dropped food. NX landed. ML lost to view.	08/08/2018	13:46	346.268	30
BS_SW_0990	1	RH	1	B	165	Left viewshed.	31/07/2018	07:05	9499.01	165
BS_SW_0992	8	NX	2	A	30	Both landed out on moor.	30/07/2018	18:16	946.667	60
BS_SW_0993_a	1	RH	1	B	135	Landed on Loch Grinneabhat.	31/07/2018	07:05	9416.09	135
BS_SW_0993_b	1	RH	1	A	15		31/07/2018	07:05	288.778	15
BS_SW_0994	5	RH	1	A	45	RH on Loch a Chlachain flew off loch and circled. Unsure if landed but flew low and lost to sight.	22/05/2018	20:03	2668.381	45
BS_SW_0995	4	NX	1	A	30	Landed.	30/04/2018	18:35	453.662	30
BS_SW_0996	7	GP	1	A	2	Female. Dropped off tussock and out of view. Had been perched up since 17:29.	15/05/2018	17:31	62.54	2

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0997	7	GP	1	A	20	Displaying male. Lost from view in dip.	15/05/2018	17:05	463.23	20
BS_SW_0998	7	DN	1	A	10	Left viewshed and straight out of sight in dip.	15/05/2018	17:01	224.487	10
BS_SW_0999	7	EA	2	B	150	Probable adult pair. Lost from view behind Beinn a Bhuna.	15/05/2018	16:34	826.577	300
BS_SW_1173	7	WE	1	A	30	Adult. Landed in tree top. Stayed perched for 45 mins. Same bird as 1174.	08/09/2018	16:30	893.379	30
BS_SW_1174	7	WE	1	A	75	Same bird as 1173. Landed out of view near Loch an t-Soluis.	08/09/2018	17:15	1291.919	75
BS_SW_1175	4	NX	1	C	45	Lost from view, high to northwest.	09/09/2018	11:53	1200.517	45
BS_SW_1176_a	6	WE	1	B	45	Adult. Landed out of view by loch and stayed here until at least 17:00.	09/09/2018	15:24	1027.691	45
BS_SW_1176_b	6	WE	1	A	15		09/09/2018	15:24	281.458	15
BS_SW_1177_a	5	ML	1	A	15	Male, hunting. Brief interaction with Py_021.	10/09/2018	16:18	195.344	15
BS_SW_1177_b	5	ML	1	B	15		10/09/2018	16:18	298.398	15
BS_SW_1177_c	5	ML	1	A	15		10/09/2018	16:18	157.131	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1178	5	ML	1	A	30	Male. Assume same bird as 1177. Hunting near Py_021, then lost low. HH flushing prey?	10/09/2018	16:32	374.902	30
BS_SW_1179	5	HH	1	A	120	Ringtail, prob. female. Hunting.	10/09/2018	17:43	898.99	120
BS_SW_1180	8	HH	1	A	30	Ringtail 'blown' east through valley and lost in swale.	11/09/2018	16:27	743.632	30
BS_SW_1181	8	HH	1	A	75	Adult male. Hunting. Lost from view, low.	11/09/2018	17:00	1218.868	75
BS_SW_1182	8	ML	1	A	15	Female. Flew fast through valley near 1181. Brief view.	11/09/2018	17:00	452.907	15
BS_SW_1183_a	8	BV	2	A	120	Poss. off Loch Briodag. Laboured flight in to v. strong wind...	11/09/2018	17:20	1660.3	240
BS_SW_1183_b	8	BV	2	B	210	...Poss. landed on Loch Druim nan Sgorach.	11/09/2018	17:20	5011.407	420
BS_SW_1183_c	8	BV	2	A	15		11/09/2018	17:20	303.765	30
BS_SW_1184_a	5	EA	1	B	30	Adult. Distant but briefly on edge of viewshed. Lost from view, low to south.	12/09/2018	12:56	549.352	30
BS_SW_1184_b	5	EA	1	C	45		12/09/2018	12:56	411.456	45
BS_SW_1184_c	5	EA	1	B	15		12/09/2018	12:56	876.793	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1185_a	1	ML	1	B	15	Female. Higher flight, downwind, then low dive in towards shore and out of view.	12/09/2018	15:56	893.92	15
BS_SW_1185_b	1	ML	1	A	15		12/09/2018	15:56	448.896	15
BS_SW_1186_a	1	GP	1	B	30	Flew south past 1185. Lost from view.	12/09/2018	15:56	576.864	30
BS_SW_1186_b	1	GP	1	A	15		12/09/2018	15:56	177.113	15
BS_SW_1187_a	1	EA	1	B	120	2CY. Slow flight in to strong wind. Mobbed by RN. Landed.	13/09/2018	12:51	1306.165	120
BS_SW_1187_b	1	EA	1	A	60		13/09/2018	12:51	685.611	60
BS_SW_1188	1	EA	1	A	15	Same as 1187. Landed.	13/09/2018	12:55	206.647	15
BS_SW_1189	1	EA	1	A	15	Same as 1187/8. Lost from view behind hill.	13/09/2018	12:57	205.638	15
BS_SW_1190_a	1	HH	1	B	15	Ringtail. Hunting along stream, lost from view, low behind hill.	13/09/2018	14:27	382.802	15
BS_SW_1190_b	1	HH	1	A	75		13/09/2018	14:27	1112.631	75
BS_SW_1191	5	HH	1	A	380	Ringtail. Prob. Ad. female. Hunting. Lost from view during torrential shower at 07:03.	13/09/2018	06:55	3403.578	380
BS_SW_1192_a	5	HH	1	A	210	Ringtail. Hunting. Lost from view in valley.	13/09/2018	07:30	2386.245	210

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1192_b	5	HH	1	B	15		13/09/2018	07:30	194.72	15
BS_SW_1192_c	5	HH	1	A	75		13/09/2018	07:30	1939.671	75
BS_SW_1193_a	5	HH	1	A	120	Ringtail. Hunting. Lost from view in sun.	13/09/2018	08:55	1274.34	120
BS_SW_1193_b	5	HH	1	B	30		13/09/2018	08:55	316.945	30
BS_SW_1193_c	5	HH	1	A	75		13/09/2018	08:55	1287.586	75
BS_SW_1194	5	PE	1	B	90	Immature. Direct flight north through turbines.	13/09/2018	09:15	2159.981	90
BS_SW_1195	5	HH	1	A	15	Ringtail seen briefly during PE flight 1194.	13/09/2018	09:15	223.589	15
BS_SW_1196_a	3	EA	1	A	30	Light too poor to age. Some display dives. Left viewshed.	13/09/2018	17:10	252.507	30
BS_SW_1196_b	3	EA	1	B	30		13/09/2018	17:10	181.214	30
BS_SW_1196_c	3	EA	1	A	15		13/09/2018	17:10	129.465	15
BS_SW_1197	3	HH	1	A	105	Ringtail. Hunting. Lost from view, low.	13/09/2018	17:12	1284.641	105
BS_SW_1198	3	HH	1	A	165	Adult male. Hunting. Lost from view downslope.	13/09/2018	18:31	1551.467	165

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1199	3	HH	1	A	195	Adult male (diff to 1198). Dropped in to roost, slightly further west than usual roost site.	13/09/2018	18:33	1968.682	195
BS_SW_1200	3	HH	1	A	180	Adult female. Landed.	13/09/2018	18:36	1576.391	180
BS_SW_1201	3	HH	1	A	45	Same bird as 1200. Lost from view, downslope.	13/09/2018	18:39	454.456	45
BS_SW_1202	3	HH	1	A	45	Ringtail. Lost from view on moor edge.	13/09/2018	19:50	543.478	45
BS_SW_1203	3	HH	1	A	180	Adult male into usual roost area.	13/09/2018	19:57	1470.012	180
BS_SW_1204	3	HH	1	A	120	Same bird as 1203. Came out of roost, over to second roosting area and then returned to same spot.	13/09/2018	20:00	1322.052	120
BS_SW_1205_a	1	ML	1	B	180	Interacting with RN. Prob. female. Dropped in height and out of view behind mound.	14/09/2018	13:31	1478.458	180
BS_SW_1205_b	1	ML	1	A	15		14/09/2018	13:31	618.828	15
BS_SW_1206_a	1	ML	1	B	60	Male unsuccessfully chasing an MP. Lost from view over mound.	14/09/2018	12:10	1766.567	60
BS_SW_1206_b	1	ML	1	A	30		14/09/2018	12:10	400.067	30
BS_SW_1207	7	PG	256	C	105	Drifting east on strong wind as moving southwards.	20/09/2018	15:35	1530.796	26880



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1208	1	PG	300	C	60	'Riding' wind, south-east. Left viewshed.	21/09/2018	08:30	1516.547	18000
BS_SW_1209	1	PG	254	C	75	Left viewshed.	21/09/2018	08:34	2123.842	19050
BS_SW_1210	1	PG	92	B	60	Left viewshed.	21/09/2018	08:44	1653.671	5520
BS_SW_1211	1	PG	345	C	60	Left viewshed.	21/09/2018	08:50	1895.241	20700
BS_SW_1212	1	PG	32	D	60	Left viewshed.	21/09/2018	08:52	2102.722	1920
BS_SW_1213	1	PG	340	B	60	Left viewshed.	21/09/2018	09:14	1548.887	20400
BS_SW_1214	1	PG	280	B	45	Left viewshed.	21/09/2018	09:15	1189.844	12600
BS_SW_1215	1	GP	1	A	15	Calling, left viewshed.	21/09/2018	09:19	530.654	15
BS_SW_1216	1	PG	44	C	45	Left viewshed.	21/09/2018	09:20	1037.619	1980
BS_SW_1217	1	PG	350	C	60	Left viewshed.	21/09/2018	09:32	1353.036	21000
BS_SW_1218	1	PG	33	B	30	Left viewshed.	21/09/2018	09:45	1066.375	990
BS_SW_1219	1	PG	31	B	30	Left viewshed.	21/09/2018	09:47	1078.904	930
BS_SW_1220	1	PG	34	B	30	Left viewshed.	21/09/2018	09:50	1077.03	1020

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1221	1	PG	65	B	30	Left viewshed.	21/09/2018	10:18	860.377	1950
BS_SW_1222_a	1	GJ	2	B	15	Lost from view, low.	21/09/2018	11:02	437.132	30
BS_SW_1222_b	1	GJ	2	A	15		21/09/2018	11:02	236.395	30
BS_SW_1223	1	EA	1	A	15	2CY landed on mound. Mobbed by RN.	21/09/2018	11:03	836.364	15
BS_SW_1224_a	1	EA	1	A	30		21/09/2018	11:20	649.671	30
BS_SW_1224_b	1	EA	1	B	180		21/09/2018	11:20	3807.842	180
BS_SW_1224_c	1	EA	1	C	255		21/09/2018	11:20	3035.796	255
BS_SW_1224_d	1	EA	1	D	90		21/09/2018	11:20	3198.116	90
BS_SW_1225	1	GJ	1	A	15	Left viewshed. (Flight time not recorded on basemap but amended post scan).	21/09/2018	11:30	753.785	15
BS_SW_1226	3	PG	37	D	45	Calling. Left viewshed.	21/09/2018	15:59	2941.703	1665
BS_SW_1227	3	PG	62	D	30	Calling. Left viewshed.	21/09/2018	16:15	1396.411	1860
BS_SW_1228_a	3	WE	1	A	30	Adult, soaring/holding in wind. Interacting with 1229 (sub-adult).	21/09/2018	16:39	364.642	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1228_b	3	WE	1	B	180		21/09/2018	16:39	6727.696	180
BS_SW_1228_c	3	WE	1	C	105		21/09/2018	16:39	1152.289	105
BS_SW_1229_a	3	WE	1	B	60	Sub-adult. Interacting with 1228.	21/09/2018	16:42	2710.749	60
BS_SW_1229_b	3	WE	1	C	105		21/09/2018	16:42	1086.345	105
BS_SW_1230	3	PG	48	D	45	Calling. Left viewshed.	21/09/2018	17:02	1655.645	2160
BS_SW_1231	2	PG	31	D	45	Calling. Lost from view in sun.	22/09/2018	11:34	1561.453	1395
BS_SW_1232	4	GJ	53	A	60	Calling. Landed.	22/09/2018	17:01	2545.336	3180
BS_SW_1233	4	GJ	22	A	45	Part of flock/flight 1232 flew north. Lost from view behind mound.	22/09/2018	17:11	2374.207	990
BS_SW_1234_a	4	HH	1	A	30	Ringtail. Mobbed by HC. Lost from view behind plantation.	22/09/2018	17:21	620.824	30
BS_SW_1234_b	4	HH	1	B	15		22/09/2018	17:21	265.787	15
BS_SW_1234_c	4	HH	1	A	15		22/09/2018	17:21	216.793	15
BS_SW_1235	4	PG	141	D	60	Calling. Left viewshed.	22/09/2018	17:47	2802.316	8460



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1236_a	4	HH	1	B	45	Ringtail. Mobbed by 2xHC. Lost from view, low, in valley.	22/09/2018	18:05	672.375	45
BS_SW_1236_b	4	HH	1	A	30		22/09/2018	18:05	252.596	30
BS_SW_1237	8	HH	1	A	180	Ringtail. Hunting. Lost from view in plantation.	23/09/2018	11:24	2132.854	180
BS_SW_1238	8	PG	56	D	90	Left viewshed.	23/09/2018	13:35	2389.923	5040
BS_SW_1239	2	PG	340	D	60	Calling. Left viewshed.	23/09/2018	15:50	2188.122	20400
BS_SW_1240	2	HH	1	A	135	Grey male, hunting. Lost from view, low along edge of Loch Garbhaig.	23/09/2018	17:56	2606.906	135
BS_SW_1241	4	GJ	3	A	30	Landed.	24/09/2018	14:05	1265.273	90
BS_SW_1242_a	4	HH	2	B	15	Grey male and ringtail interacting. Lost from view behind plantation.	24/09/2018	14:25	167.62	30
BS_SW_1242_b	4	HH	2	A	15		24/09/2018	14:25	136.571	30
BS_SW_1242_c	4	HH	2	B	15		24/09/2018	14:25	76.793	30
BS_SW_1242_d	4	HH	2	A	15		24/09/2018	14:25	101.6	30





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_1243_a	8	WE	1	C	75	Adult, 'holding' in wind, interacting with RN, then landed out of view on edge of loch.	25/09/2018	08:51	1185.956	75
BS_SW_1243_b	8	WE	1	B	75		25/09/2018	08:51	959.215	75
BS_SW_1243_c	8	WE	1	A	30		25/09/2018	08:51	244.427	30
BS_SW_1244_a	8	GP	4	B	15	Flying into wind. Left viewshed.	25/09/2018	11:04	415.326	60
BS_SW_1244_b	8	GP	4	A	15		25/09/2018	11:04	500.255	60

## D.2 Diver Focal Watch Flight Data

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_0004_a	DFW2	RH	1	A	30		16/07/2018	20:21	695.631	30
BS_SW_0004_b	DFW2	RH	1	B	30		16/07/2018	20:21	716.557	30
BS_SW_0160_a	DFW1	RH	1	A	15		12/06/2018	05:41	259.954	15
BS_SW_0160_a	DFW1	RH	1	B	45		12/06/2018	05:41	1189.806	45
BS_SW_0235_a	DFW1	RH	1	A	15		12/06/2018	06:19	597.475	15
BS_SW_0235_b	DFW1	RH	1	B	60		12/06/2018	06:19	2656.256	60
BS_SW_0278	DFW1	RH	2	C	105		12/06/2018	20:47	1741.553	210
BS_SW_0458	DFW1	BV	2	B	30		10/07/2018	16:19	1302.482	60
BS_SW_0467	DFW6	BV	1	A	30		08/07/2018	22:31	799.3	30
BS_SW_0481_a	DFW5	RH	1	B	15		09/07/2018	20:34	1033.136	15
BS_SW_0481_b	DFW5	RH	1	A	15		09/07/2018	20:34	387.014	15
BS_SW_0537_a	DFW5	RH	2	A	15		09/07/2018	21:49	419.822	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_0537_b	DFW5	RH	2	B	60		09/07/2018	21:49	1082.652	120
BS_SW_0537_c	DFW5	RH	2	C	45		09/07/2018	21:49	913.256	90
BS_SW_0669_a	DFW5	RH	1	A	15		07/07/2018	05:02	544.17	15
BS_SW_0669_b	DFW5	RH	1	B	150		07/07/2018	05:02	3809.969	150
BS_SW_0989_a	DFW2	RH	1	B	15		16/07/2018	18:26	364.056	15
BS_SW_0989_b	DFW2	RH	1	A	30		16/07/2018	18:26	797.069	30
BS_SW_0991_a	DFW2	RH	1	A	45		16/07/2018	18:53	982.091	45
BS_SW_0991_b	DFW2	RH	1	B	30		16/07/2018	18:53	776.132	30
BS_SW_1000	DFW5	RH	1	B	90		07/07/2018	05:36	1009.067	90
BS_SW_1001	DFW5	RH	1	B	225		07/07/2018	05:58	3018.416	225
BS_SW_1002	DFW2	RH	1	A	45		30/06/2018	04:56	1220.822	45
BS_SW_1003_a	DFW2	RH	1	A	15		30/06/2018	05:50	541.287	15
BS_SW_1003_b	DFW2	RH	1	B	30		30/06/2018	05:50	1684.067	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1004_a	DFW2	RH	1	A	15		17/06/2018	05:37	204.261	15
BS_SW_1004_b	DFW2	RH	1	B	60		17/06/2018	05:37	2291.661	60
BS_SW_1005	DFW2	RH	1	A	15		17/06/2018	06:15	167.375	15
BS_SW_1006	DFW2	RH	1	B	60		12/07/2018	18:14	2740.646	60
BS_SW_1007_a	DFW2	RH	1	B	30		12/07/2018	18:38	1407.072	30
BS_SW_1007_b	DFW2	RH	1	A	15		12/07/2018	18:38	212.75	15
BS_SW_1008_a	DFW2	RH	1	A	15		12/07/2018	19:25	588.544	15
BS_SW_1008_b	DFW2	RH	1	B	60		12/07/2018	19:25	2038.681	60
BS_SW_1009	DFW6	Diver sp.	1	B	131		13/07/2018	17:32	3933.71	131
BS_SW_1010	DFW6	RH	2	B	68		13/07/2018	19:49	1979.22	136
BS_SW_1011_a	DFW6	BV	1	B	15		13/07/2018	18:57	270.866	15
BS_SW_1011_b	DFW6	BV	1	A	15		13/07/2018	18:57	805.788	15





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1012_a	DFW6	BV	1	A	45		14/07/2018	05:47	1874.514	45
BS_SW_1012_b	DFW6	BV	1	B	75		14/07/2018	05:47	3150.84	75
BS_SW_1013	DFW6	BV	1	A	15		14/07/2018	08:12	727.794	15
BS_SW_1014	DFW6	RH	2	C	38		14/07/2018	07:58	1249.879	76
BS_SW_1015	DFW4	RH	1	A	75		15/07/2018	18:32	1968.417	75
BS_SW_1016_a	DFW4	RH	1	B	45		15/07/2018	21:31	1744.362	45
BS_SW_1016_b	DFW4	RH	1	A	15		15/07/2018	21:31	236.429	15
BS_SW_1017_a	DFW4	RH	1	A	30		15/07/2018	21:38	1005.369	30
BS_SW_1017_b	DFW4	RH	1	B	150		15/07/2018	21:38	3643.902	150
BS_SW_1018	DFW1	BV	1	B	165		16/07/2018	20:12	2967.967	165
BS_SW_1019_a	DFW1	RH	1	A	15		16/07/2018	18:34	479.475	15
BS_SW_1019_b	DFW1	RH	1	B	45		16/07/2018	18:34	1608.421	45
BS_SW_1020_a	DFW1	RH	1	B	30		16/07/2018	18:53	557.511	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1020_b	DFW1	RH	1	A	30		16/07/2018	18:53	678.587	30
BS_SW_1021_a	DFW1	RH	1	B	60		16/07/2018	19:11	1579.494	60
BS_SW_1021_b	DFW1	RH	1	A	15		16/07/2018	19:11	407.279	15
BS_SW_1022_a	DFW1	RH	1	B	45		16/07/2018	19:59	688.634	45
BS_SW_1022_b	DFW1	RH	1	A	15		16/07/2018	19:59	294.034	15
BS_SW_1023	DFW1	RH	1	B	15		16/07/2018	20:12	489.888	15
BS_SW_1024	DFW1	RH	1	A	45		16/07/2018	20:29	1132.741	45
BS_SW_1025	DFW1	RH	1	A	45		16/07/2018	20:32	786.201	45
BS_SW_1026	DFW1	RH	1	B	266		16/07/2018	Not Rec	6512.786	266
BS_SW_1027_a	DFW1	RH	1	B	15		16/07/2018	20:44	435.552	15
BS_SW_1027_b	DFW1	RH	1	A	30		16/07/2018	20:44	678.092	30
BS_SW_1028	DFW1	RH	1	A	75		16/07/2018	20:49	1144.351	75

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1029	DFW1	RH	2	B	60		16/07/2018	20:44	1862.088	120
BS_SW_1030	DFW1	RH	1	B	75		16/07/2018	21:14	2271.435	75
BS_SW_1031	DFW1	BV	1	B	120		16/07/2018	21:08	2915.777	120
BS_SW_1032	DFW6	BV	3	A	75		17/07/2018	06:53	908.141	225
BS_SW_1033_a	DFW6	BV	1	A	45		17/07/2018	06:53	422.716	45
BS_SW_1033_b	DFW6	BV	1	B	60		17/07/2018	06:53	1335.781	60
BS_SW_1034_a	DFW6	BV	3	A	15		17/07/2018	08:07	699.774	45
BS_SW_1034_b	DFW6	BV	3	B	30		17/07/2018	08:07	129.626	90
BS_SW_1034_c	DFW6	BV	3	A	15		17/07/2018	08:07	404.872	45
BS_SW_1035	DFW6	RH	1	B	30		17/07/2018	05:51	834.693	30
BS_SW_1036_a	DFW4	RH	1	A	30		17/07/2018	06:03	1097.832	30
BS_SW_1036_b	DFW4	RH	1	B	45		17/07/2018	06:03	687.743	45
BS_SW_1037	DFW4	RH	1	A	60		17/07/2018	06:29	661.513	60



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1038_a	DFW4	RH	1	A	45		17/07/2018	06:53	208.736	45
BS_SW_1038_b	DFW4	RH	1	B	45		17/07/2018	06:53	459.244	45
BS_SW_1039_a	DFW4	RH	1	B	15		17/07/2018	07:09	1571.119	15
BS_SW_1039_b	DFW4	RH	1	A	45		17/07/2018	07:09	699.454	45
BS_SW_1040_a	DFW4	RH	1	B	60		12/07/2018	06:34	1268.33	60
BS_SW_1040_b	DFW4	RH	1	A	30		12/07/2018	06:34	779.499	30
BS_SW_1041_a	DFW4	RH	1	A	30		12/07/2018	07:01	572.963	30
BS_SW_1041_b	DFW4	RH	1	B	45		12/07/2018	07:01	1220.353	45
BS_SW_1041_c	DFW4	RH	1	C	30		12/07/2018	07:01	624.327	30
BS_SW_1042_a	DFW4	RH	1	C	45		12/07/2018	07:12	944.784	45
BS_SW_1042_b	DFW4	RH	1	B	30		12/07/2018	07:12	745.332	30
BS_SW_1042_c	DFW4	RH	1	A	30		12/07/2018	07:12	640.719	30
BS_SW_1043_a	DFW4	RH	2	C	15		12/07/2018	07:48	269.609	30





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1043_b	DFW4	RH	2	B	30		12/07/2018	07:48	647.995	60
BS_SW_1043_c	DFW4	RH	2	A	60		12/07/2018	07:48	1766.741	120
BS_SW_1044_a	DFW4	RH	1	B	45		12/07/2018	07:58	1023.316	45
BS_SW_1044_b	DFW4	RH	1	A	15		12/07/2018	07:58	328.439	15
BS_SW_1045_a	DFW4	RH	1	C	75		12/07/2018	08:26	1768.485	75
BS_SW_1045_b	DFW4	RH	1	B	15		12/07/2018	08:26	319.533	15
BS_SW_1045_c	DFW4	RH	1	A	15		12/07/2018	08:26	211.836	15
BS_SW_1046_a	DFW4	RH	1	A	30		12/07/2018	08:37	518.058	30
BS_SW_1046_b	DFW4	RH	1	B	45		12/07/2018	08:37	1616.494	45
BS_SW_1047_a	DFW1	RH	1	A	15		12/07/2018	18:37	198.112	15
BS_SW_1047_b	DFW1	RH	1	B	15		12/07/2018	18:37	335.85	15
BS_SW_1047_c	DFW1	RH	1	C	90		12/07/2018	18:37	1522.095	90
BS_SW_1048_a	DFW1	RH	1	B	30		12/07/2018	19:21	931.06	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1048_b	DFW1	RH	1	A	45		12/07/2018	19:21	534.31	45
BS_SW_1049	DFW1	RH	2	B	150		12/07/2018	19:41	4012.306	300
BS_SW_1050	DFW1	RH	1	B	90		12/07/2018	19:56	2009.118	90
BS_SW_1051_a	DFW5	RH	1	A	30		13/07/2018	19:35	876.005	30
BS_SW_1051_b	DFW5	RH	1	B	60		13/07/2018	19:35	1058.332	60
BS_SW_1051_c	DFW5	RH	1	C	45		13/07/2018	19:35	919.642	45
BS_SW_1052_a	DFW2	RH	1	A	30		14/07/2018	06:02	691.612	30
BS_SW_1052_b	DFW2	RH	1	B	45		14/07/2018	06:02	1020.232	45
BS_SW_1052_c	DFW2	RH	1	C	30		14/07/2018	06:02	1386.46	30
BS_SW_1053_a	DFW6	BV	1	B	30		15/07/2018	21:02	471.115	30
BS_SW_1053_b	DFW6	BV	1	A	30		15/07/2018	21:02	419.096	30
BS_SW_1054_a	DFW1	RH	1	A	45		30/06/2018	20:39	767.768	45
BS_SW_1054_b	DFW1	RH	1	B	30		30/06/2018	20:39	889.574	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1055_a	DFW1	RH	2	C	45		30/06/2018	20:53	2059.454	90
BS_SW_1055_b	DFW1	RH	2	B	30		30/06/2018	20:53	978.308	60
BS_SW_1055_c	DFW1	RH	2	A	15		30/06/2018	20:53	247.533	30
BS_SW_1056	DFW1	RH	1	A	30		30/06/2018	21:19	747.257	30
BS_SW_1057_a	DFW1	RH	1	A	30		30/06/2018	21:58	407.335	30
BS_SW_1057_b	DFW1	RH	1	B	45		30/06/2018	21:58	649.722	45
BS_SW_1057_c	DFW1	RH	1	A	30		30/06/2018	21:58	492.28	30
BS_SW_1058_a	DFW5	RH	1	A	15		28/06/2018	22:38	226.68	15
BS_SW_1058_b	DFW5	RH	1	B	15		28/06/2018	22:38	167.201	15
BS_SW_1058_c	DFW5	RH	1	C	60		28/06/2018	22:38	2281.346	60
BS_SW_1059_a	DFW5	RH	1	A	15		05/07/2018	20:52	354.977	15
BS_SW_1059_b	DFW5	RH	1	B	15		05/07/2018	20:52	426.186	15
BS_SW_1059_c	DFW5	RH	1	C	30		05/07/2018	20:52	1179.875	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1060_a	DFW5	RH	1	C	30		05/07/2018	21:46	681.047	30
BS_SW_1060_b	DFW5	RH	1	B	30		05/07/2018	21:46	744.678	30
BS_SW_1060_c	DFW5	RH	1	A	15		05/07/2018	21:46	201.202	15
BS_SW_1061_a	DFW5	RH	1	A	15		05/07/2018	21:50	364.344	15
BS_SW_1061_b	DFW5	RH	1	B	15		05/07/2018	21:50	279.403	15
BS_SW_1061_c	DFW5	RH	1	C	45		05/07/2018	21:50	1289.24	45
BS_SW_1062_a	DFW5	RH	1	C	15		05/07/2018	22:32	304.559	15
BS_SW_1062_b	DFW5	RH	1	B	30		05/07/2018	22:32	846.985	30
BS_SW_1062_c	DFW5	RH	1	A	15		05/07/2018	22:32	293.587	15
BS_SW_1063_a	DFW5	RH	1	A	15		05/07/2018	22:35	366.454	15
BS_SW_1063_b	DFW5	RH	1	B	30		05/07/2018	22:35	860.446	30
BS_SW_1063_c	DFW5	RH	1	C	45		05/07/2018	22:35	994.713	45
BS_SW_1063_d	DFW5	RH	1	D	15		05/07/2018	22:35	251.376	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1064_a	DFW2	RH	1	A	15		28/06/2018	04:35	236.767	15
BS_SW_1064_b	DFW2	RH	1	B	45		28/06/2018	04:35	2133.436	45
BS_SW_1065	DFW2	RH	1	B	75		28/06/2018	05:05	4132.269	75
BS_SW_1066_a	DFW2	RH	2	B	30		28/06/2018	05:09	1033.646	60
BS_SW_1066_b	DFW2	RH	2	A	115		28/06/2018	05:09	470.544	230
BS_SW_1067	DFW2	RH	1	B	45		28/06/2018	06:10	1294.586	45
BS_SW_1068	DFW6	BV	1	B	45		24/07/2018	06:15	1278.839	45
BS_SW_1069_a	DFW2	RH	2	B	60		24/07/2018	05:32	2477.213	120
BS_SW_1069_b	DFW2	RH	2	C	15		24/07/2018	05:32	524.884	30
BS_SW_1070_a	DFW2	RH	2	B	75		24/07/2018	06:15	4382.18	150
BS_SW_1070_b	DFW2	RH	2	C	15		24/07/2018	06:15	481.52	30
BS_SW_1070_c	DFW2	RH	2	B	15		24/07/2018	06:15	503.351	30
BS_SW_1070_d	DFW2	RH	2	A	15		24/07/2018	06:15	491.371	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1071_a	DFW2	RH	2	B	60		24/07/2018	06:24	2650.175	120
BS_SW_1071_b	DFW2	RH	2	C	45		24/07/2018	06:24	428.887	90
BS_SW_1072	DFW2	RH	2	C	60		24/07/2018	07:51	2068.662	120
BS_SW_1073	DFW5	RH	1	A	15		29/07/2018	16:50	418.344	15
BS_SW_1074	DFW5	RH	1	A	15		29/07/2018	17:52	318.986	15
BS_SW_1075	DFW5	RH	1	A	30		29/07/2018	18:15	773.565	30
BS_SW_1076_a	DFW5	RH	2	B	45		29/07/2018	18:45	1113.578	90
BS_SW_1076_b	DFW5	RH	2	A	15		29/07/2018	18:45	234.911	30
BS_SW_1077_a	DFW5	RH	1	A	30		29/07/2018	19:20	380.167	30
BS_SW_1077_b	DFW5	RH	1	B	60		29/07/2018	19:20	995.676	60
BS_SW_1077_c	DFW5	RH	1	C	30		29/07/2018	19:20	435.786	30
BS_SW_1078	DFW5	RH	1	A	15		29/07/2018	19:22	277.232	15
BS_SW_1079_a	DFW5	RH	1	B	75		29/07/2018	19:25	1870.248	75

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1079_b	DFW5	RH	1	A	15		29/07/2018	19:25	323.456	15
BS_SW_1080_a	DFW5	RH	1	A	60		29/07/2018	19:26	1879.538	60
BS_SW_1080_b	DFW5	RH	1	B	60		29/07/2018	19:26	1059.313	60
BS_SW_1081	DFW1	RH	1	A	15		26/07/2018	18:56	76.961	15
BS_SW_1082	DFW1	RH	1	A	15		26/07/2018	18:59	340.904	15
BS_SW_1083	DFW1	RH	2	B	75		26/07/2018	19:03	1902.095	150
BS_SW_1084	DFW1	RH	1	A	15		26/07/2018	19:50	608.489	15
BS_SW_1085_a	DFW1	RH	2	B	75		26/07/2018	19:51	2299.029	150
BS_SW_1085_b	DFW1	RH	2	A	15		26/07/2018	19:51	562.472	30
BS_SW_1086_a	DFW5	RH	1	A	30		08/08/2018	19:20	731.53	30
BS_SW_1086_b	DFW5	RH	1	B	45		08/08/2018	19:20	1788.504	45
BS_SW_1086_c	DFW5	RH	1	C	45		08/08/2018	19:20	1467.967	45
BS_SW_1087	DFW5	RH	1	A	20		08/08/2018	20:20	383.574	20



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1088	DFW5	BV	1	B	70		08/08/2018	20:31	1744.626	70
BS_SW_1089_a	DFW2	RH	1	B	45		24/07/2018	07:14	1652.197	45
BS_SW_1089_b	DFW2	RH	1	C	30		24/07/2018	07:14	855.689	30
BS_SW_1090_a	DFW4	RH	1	B	30		09/08/2018	18:06	1040.595	30
BS_SW_1090_b	DFW4	RH	1	A	15		09/08/2018	18:06	473.258	15
BS_SW_1091_a	DFW4	RH	1	B	90		09/08/2018	18:34	4633.092	90
BS_SW_1091_b	DFW4	RH	1	C	60		09/08/2018	18:34	2004.045	60
BS_SW_1092_a	DFW4	RH	1	B	45		09/08/2018	19:36	1107.962	45
BS_SW_1092_b	DFW4	RH	1	A	15		09/08/2018	19:36	551.383	15
BS_SW_1093_a	DFW4	RH	1	C	75		09/08/2018	19:44	1635.935	75
BS_SW_1093_b	DFW4	RH	1	B	60		09/08/2018	19:44	1178.661	60
BS_SW_1093_c	DFW4	RH	1	A	15		09/08/2018	19:44	304.593	15
BS_SW_1094_a	DFW4	RH	1	A	15		09/08/2018	20:22	610.373	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1094_b	DFW4	RH	1	B	45		09/08/2018	20:22	1202.332	45
BS_SW_1095_a	DFW4	RH	1	B	75		09/08/2018	20:29	2058.19	75
BS_SW_1095_b	DFW4	RH	1	A	15		09/08/2018	20:29	237.752	15
BS_SW_1096	DFW4	RH	1	B	75		09/08/2018	20:00	1380.558	75
BS_SW_1097_a	DFW2	RH	1	A	15		10/08/2018	20:12	478.429	15
BS_SW_1097_b	DFW2	RH	1	B	60		10/08/2018	20:12	1943.473	60
BS_SW_1098	DFW2	RH	2	C	80		10/08/2018	20:36	3249.675	160
BS_SW_1099_a	DFW4	RH	1	B	45		11/08/2018	18:38	1507.399	45
BS_SW_1099_b	DFW4	RH	1	A	15		11/08/2018	18:38	465.314	15
BS_SW_1100_a	DFW4	RH	1	A	15		11/08/2018	18:44	829.654	15
BS_SW_1100_b	DFW4	RH	1	B	105		11/08/2018	18:44	2569.773	105
BS_SW_1100_c	DFW4	RH	1	A	15		11/08/2018	18:44	658.921	15
BS_SW_1101_a	DFW4	RH	1	A	15		11/08/2018	18:59	760.564	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1101_b	DFW4	RH	1	B	240		11/08/2018	18:59	4141.355	240
BS_SW_1102_a	DFW4	RH	1	B	15		11/08/2018	19:44	491.745	15
BS_SW_1102_b	DFW4	RH	1	A	15		11/08/2018	19:44	444.923	15
BS_SW_1103_a	DFW4	RH	1	A	30		11/08/2018	19:47	1002.166	30
BS_SW_1103_b	DFW4	RH	1	B	15		11/08/2018	19:47	618.332	15
BS_SW_1103_c	DFW4	RH	1	A	15		11/08/2018	19:47	640.338	15
BS_SW_1104_a	DFW4	RH	1	B	15		11/08/2018	21:13	604.098	15
BS_SW_1104_b	DFW4	RH	1	A	15		11/08/2018	21:13	473.302	15
BS_SW_1105	DFW2	RH	1	B	75		11/08/2018	06:27	4598.225	75
BS_SW_1106_a	DFW2	RH	1	A	15		11/08/2018	07:09	369.647	15
BS_SW_1106_b	DFW2	RH	1	B	75		11/08/2018	07:09	2180.042	75
BS_SW_1107_a	DFW2	RH	2	B	15		11/08/2018	08:15	604.838	30
BS_SW_1107_b	DFW2	RH	2	A	15		11/08/2018	08:15	496.194	30





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1108	DFW2	RH	2	B	20		11/08/2018	06:35	762.351	40
BS_SW_1109	DFW2	RH	2	B	90		11/08/2018	06:15	2674.172	180
BS_SW_1110	DFW2	RH	1	B	226		11/08/2018	07:35	7770.922	226
BS_SW_1111	DFW2	RH	2	B	10		11/08/2018	06:38	324.132	20
BS_SW_1112	DFW2	RH	1	A	25		11/08/2018	06:18	1540.862	25
BS_SW_1113_a	DFW5	RH	1	A	45		13/08/2018	18:11	1568.302	45
BS_SW_1113_b	DFW5	RH	1	B	45		13/08/2018	18:11	1177.141	45
BS_SW_1113_c	DFW5	RH	1	C	45		13/08/2018	18:11	1146.555	45
BS_SW_1114	DFW5	RH	1	A	45		13/08/2018	18:53	1011.607	45
BS_SW_1115_a	DFW5	RH	1	B	30		13/08/2018	20:05	649.358	30
BS_SW_1115_b	DFW5	RH	1	A	45		13/08/2018	20:05	1250.391	45
BS_SW_1116_a	DFW1	RH	1	A	45		14/08/2018	06:48	842.829	45
BS_SW_1116_b	DFW1	RH	1	B	45		14/08/2018	06:48	561.707	45



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1116_c	DFW1	RH	1	C	30		14/08/2018	06:48	437.736	30
BS_SW_1117_a	DFW1	RH	1	B	30		14/08/2018	07:36	409.574	30
BS_SW_1117_b	DFW1	RH	1	A	30		14/08/2018	07:36	455.469	30
BS_SW_1118_a	DFW1	RH	1	A	60		14/08/2018	08:25	1627.089	60
BS_SW_1118_b	DFW1	RH	1	B	75		14/08/2018	08:25	1937.105	75
BS_SW_1119_a	DFW4	RH	1	A	15		15/08/2018	06:23	521.852	15
BS_SW_1119_b	DFW4	RH	1	B	90		15/08/2018	06:23	1655.891	90
BS_SW_1120_a	DFW4	RH	1	B	60		15/08/2018	07:11	1110.447	60
BS_SW_1120_b	DFW4	RH	1	A	45		15/08/2018	07:11	577.257	45
BS_SW_1121_a	DFW4	RH	1	A	45		15/08/2018	07:47	1212.847	45
BS_SW_1121_b	DFW4	RH	1	B	75		15/08/2018	07:47	1075.205	75
BS_SW_1122_a	DFW4	RH	1	B	30		15/08/2018	08:14	712.386	30
BS_SW_1122_b	DFW4	RH	1	A	45		15/08/2018	08:14	946.174	45

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1123_a	DFW4	RH	2	A	75		15/08/2018	08:17	4172.812	150
BS_SW_1123_b	DFW4	RH	2	B	45		15/08/2018	08:17	878.087	90
BS_SW_1123_c	DFW4	RH	2	C	60		15/08/2018	08:17	1132.252	120
BS_SW_1124_a	DFW4	RH	2	B	60		15/08/2018	08:34	963.192	120
BS_SW_1124_b	DFW4	RH	2	A	60		15/08/2018	08:34	1008.915	120
BS_SW_1125	DFW2	RH	2	C	150		16/08/2018	06:28	3475.39	300
BS_SW_1126	DFW2	RH	1	A	30		16/08/2018	06:35	855.285	30
BS_SW_1127_a	DFW2	RH	2	A	45		16/08/2018	07:03	780.721	90
BS_SW_1127_b	DFW2	RH	2	B	75		16/08/2018	07:03	1070.444	150
BS_SW_1127_c	DFW2	RH	2	C	60		16/08/2018	07:03	1144.381	120
BS_SW_1128	DFW2	RH	1	A	30		16/08/2018	07:20	816.98	30
BS_SW_1129_a	DFW2	RH	1	A	60		16/08/2018	07:23	989.582	60
BS_SW_1129_b	DFW2	RH	1	B	15		16/08/2018	07:23	287.73	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1129_c	DFW2	RH	1	C	30		16/08/2018	07:23	868.411	30
BS_SW_1130_a	DFW2	RH	1	B	60		14/08/2018	19:22	1724.216	60
BS_SW_1130_b	DFW2	RH	1	A	15		14/08/2018	19:22	391.772	15
BS_SW_1131	DFW2	RH	1	B	15		14/08/2018	20:30	429.8	15
BS_SW_1132_a	DFW2	RH	1	A	15		14/08/2018	20:40	536.487	15
BS_SW_1132_b	DFW2	RH	1	B	60		14/08/2018	20:40	1519.812	60
BS_SW_1133_a	DFW2	RH	1	B	30		14/08/2018	21:01	1039.828	30
BS_SW_1133_b	DFW2	RH	1	A	15		14/08/2018	21:01	278.128	15
BS_SW_1134_a	DFW2	RH	1	B	30		14/08/2018	21:12	975.234	30
BS_SW_1134_b	DFW2	RH	1	A	15		14/08/2018	21:12	251.855	15
BS_SW_1135	DFW2	RH	2	B	45		14/08/2018	19:05	1333.448	90
BS_SW_1136	DFW2	RH	1	B	75		14/08/2018	21:05	2610.477	75
BS_SW_1137	DFW2	RH	1	B	30		14/08/2018	18:52	598.883	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1138	DFW5	RH	2	B	135		15/08/2018	07:25	4833.242	270
BS_SW_1139_a	DFW5	RH	2	B	75		15/08/2018	07:47	1938.612	150
BS_SW_1139_b	DFW5	RH	2	A	15		15/08/2018	07:47	235.364	30
BS_SW_1140	DFW5	RH	2	B	45		15/08/2018	07:14	1249.424	90
BS_SW_1141	DFW5	RH	2	B	180		15/08/2018	07:17	6683.023	360
BS_SW_1142	DFW5	BV	4	B	360		15/08/2018	05:58	3752.454	1440
BS_SW_1143_a	DFW5	RH	3	B	120		15/08/2018	07:00	2003.703	360
BS_SW_1143_b	DFW5	RH	3	C	160		15/08/2018	07:00	4749.094	480
BS_SW_1144_a	DFW5	RH	1	C	90		15/08/2018	06:18	4337.562	90
BS_SW_1144_b	DFW5	RH	1	B	15		15/08/2018	06:18	393.16	15
BS_SW_1145	DFW5	RH	2	B	120		15/08/2018	07:11	4510.474	240
BS_SW_1146	DFW5	RH	2	B	60		15/08/2018	08:28	1393.43	120
BS_SW_1147	DFW5	BV	3	B	105		15/08/2018	08:35	2593.616	315





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1148	DFW5	RH	2	C	160		15/08/2018	07:43	4850.192	320
BS_SW_1149	DFW5	RH	2	B	160		15/08/2018	08:23	4633.293	320
BS_SW_1150	DFW5	RH	1	C	240		15/08/2018	08:13	6058.748	240
BS_SW_1151	DFW5	RH	2	C	90		15/08/2018	08:15	2628.389	180
BS_SW_1152_a	DFW2	RH	1	A	15		22/08/2018	19:04	251.925	15
BS_SW_1152_b	DFW2	RH	1	B	60		22/08/2018	19:04	1956.683	60
BS_SW_1153	DFW2	RH	1	B	105		22/08/2018	19:57	1605.811	105
BS_SW_1154_a	DFW2	RH	1	B	60		22/08/2018	20:33	1439.908	60
BS_SW_1154_b	DFW2	RH	1	C	45		22/08/2018	20:33	849.332	45
BS_SW_1155_a	DFW1	RH	1	B	30		16/08/2018	06:17	712.492	30
BS_SW_1155_b	DFW1	RH	1	A	15		16/08/2018	06:17	445.307	15
BS_SW_1156_a	DFW1	RH	1	A	15		16/08/2018	06:20	523.896	15
BS_SW_1156_b	DFW1	RH	1	B	75		16/08/2018	06:20	2041.679	75

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1157_a	DFW1	RH	1	B	30		16/08/2018	06:43	876.458	30
BS_SW_1157_b	DFW1	RH	1	A	15		16/08/2018	06:43	557.956	15
BS_SW_1158	DFW1	RH	1	A	75		16/08/2018	06:47	1406.122	75
BS_SW_1159	DFW1	RH	1	A	15		16/08/2018	07:27	281.725	15
BS_SW_1160_a	DFW1	RH	2	B	45		16/08/2018	07:31	1213.998	90
BS_SW_1160_b	DFW1	RH	2	C	60		16/08/2018	07:31	2740.025	120
BS_SW_1160_c	DFW1	RH	2	B	45		16/08/2018	07:31	2393.165	90
BS_SW_1160_d	DFW1	RH	2	C	60		16/08/2018	07:31	1104.591	120
BS_SW_1160_e	DFW1	RH	2	B	45		16/08/2018	07:31	1669.086	90
BS_SW_1160_f	DFW1	RH	2	A	15		16/08/2018	07:31	686.276	30
BS_SW_1161	DFW1	RH	1	B	90		16/08/2018	06:48	3503.313	90
BS_SW_1162	DFW1	RH	2	B	90		16/08/2018	06:22	3687.683	180
BS_SW_1163	DFW1	RH	2	B	30		16/08/2018	06:29	782.8	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1164	DFW1	RH	1	C	45		16/08/2018	09:17	1393.177	45
BS_SW_1165	DFW1	RH	1	B	35		16/08/2018	08:34	2188.757	35
BS_SW_1166	DFW1	RH	1	B	20		16/08/2018	09:23	758.723	20
BS_SW_1167	DFW1	RH	1	B	30		16/08/2018	09:08	510.704	30
BS_SW_1168_a	DFW1	RH	1	B	60		16/08/2018	08:10	1269.147	60
BS_SW_1168_b	DFW1	RH	1	A	15		16/08/2018	08:10	259.21	15
BS_SW_1169_a	DFW1	RH	1	A	15		16/08/2018	08:15	341.989	15
BS_SW_1169_b	DFW1	RH	1	B	75		16/08/2018	08:15	1170.272	75
BS_SW_1170_a	DFW1	RH	1	B	15		16/08/2018	08:37	1079.824	15
BS_SW_1170_b	DFW1	RH	1	A	15		16/08/2018	08:37	131.347	15
BS_SW_1171_a	DFW1	RH	1	B	75		16/08/2018	08:42	1522.997	75
BS_SW_1171_b	DFW1	RH	1	C	30		16/08/2018	08:42	1339.623	30
BS_SW_1172_a	DFW1	RH	1	B	15		16/08/2018	08:58	487.596	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes – DELETED TO REMOVE REFERENCES TO BREEDING LOCHS – SEE CONFIDENTIAL APPENDIX FOR FURTHER DETAILS	Date	Time	Length (m)	Total Time
BS_SW_1172_b	DFW1	RH	1	A	15		16/08/2018	08:58	417.494	15

## D.3 Hen Harrier Focal Watch Flight Data

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0022	HHFW2	HH	1	A	105	Female, flew low along ridgeline.	19/04/2018	10:25	830.53	105
BS_SW_0023_a	HHFW2	HH	1	A	120	Female hunting / low flight over plantation. Interacted with PE, chasing it off south over road.	19/04/2018	10:29	1231.471	120
BS_SW_0023_b	HHFW2	HH	1	B	135		19/04/2018	10:29	2237.131	135
BS_SW_0023_c	HHFW2	HH	1	A	45		19/04/2018	10:29	343.031	45
BS_SW_0024_a	HHFW2	HH	1	A	60	Male skydancing over a small area. Some of flight time obscured by topography.	19/04/2018	12:50	577.897	60
BS_SW_0024_b	HHFW2	HH	1	B	65	Male skydancing over a small area. Some of flight time obscured by topography.	19/04/2018	12:50	428.383	65
BS_SW_0025	HHFW2	HH	1	A	60	Possible same male as _024. Low flight over western area of plantation then out of view. Landed?	19/04/2018	12:55	1462.027	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0220_a	HHFW3	HH	1	B	105	Ringtail. Lost to view, low to west.	29/04/2018	10:45	1585.613	105
BS_SW_0220_b	HHFW3	HH	1	A	15		29/04/2018	10:45	133.09	15
BS_SW_0221	HHFW3	HH	1	A	75	Adult male. Flew up from heather and lost to view, low to west.	29/04/2018	10:47	1206.775	75
BS_SW_0222_a	HHFW3	HH	1	B	150	Female. Interaction with male (_223). Both lost to view low in plantation area.	29/04/2018	11:15	2219.437	150
BS_SW_0222_b	HHFW3	HH	1	A	15		29/04/2018	11:15	173.038	15
BS_SW_0223_a	HHFW3	HH	1	B	45	Adult male. Interaction with female (_222). Both lost to view low in plantation area.	29/04/2018	11:17	753.968	45
BS_SW_0223_b	HHFW3	HH	1	A	15		29/04/2018	11:17	192.9	15
BS_SW_0224_a	HHFW3	HH	1	B	75	Ringtail. Soaring flight, lost high in sky to north in heat haze.	29/04/2018	11:40	1086.501	75
BS_SW_0224_b	HHFW3	HH	1	C	45		29/04/2018	11:40	1540.336	45
BS_SW_0225_a	HHFW3	HH	1	B	315	Ringtail. Possibly immature male. Skydancing. Not bird _222. Lost from view when low.	29/04/2018	12:43	5020.432	315
BS_SW_0225_b	HHFW3	HH	1	C	60		29/04/2018	12:43	751.797	60



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0225_c	HHFW3	HH	1	B	45		29/04/2018	12:43	851.738	45
BS_SW_0225_d	HHFW3	HH	1	A	15		29/04/2018	12:43	479.134	15
BS_SW_0226	HHFW2	HH	1	A	120	Adult male, lost over ridge to north.	02/05/2018	14:10	1261.313	120
BS_SW_0227	HHFW2	HH	1	A	135	Adult male. Landed in heather bank in plantation.	02/05/2018	15:30	587.599	135
BS_SW_0228	HHFW2	HH	1	A	30	Adult female. Landed in heather.	02/05/2018	15:45	307.1	30
BS_SW_0229	HHFW2	HH	1	A	105	Adult male flew towards female.	02/05/2018	15:46	594.542	105
BS_SW_0230	HHFW2	HH	1	A	300	Adult female. Low flight around plantation, landing briefly and then again at 16:00 til end of VP.	02/05/2018	15:55	1397.566	300
BS_SW_0231	HHFW2	HH	1	A	75		04/05/2018	11:00	845.733	75
BS_SW_0232	HHFW2	HH	1	A	45		04/05/2018	12:18	617.495	45
BS_SW_0233_a	HHFW2	HH	1	A	15		04/05/2018	12:20	61.34	15
BS_SW_0233_b	HHFW2	HH	1	B	165		04/05/2018	12:20	292.257	165
BS_SW_0233_c	HHFW2	HH	1	A	15		04/05/2018	12:20	119.846	15

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0234	HHFW2	HH	1	B	180		04/05/2018	12:40	385.87	180
BS_SW_0236	HHFW3	HH	1	A	15	Adult male. Caught and killed a small passerine. Landed to pluck prey.	15/05/2018	06:08	120.51	15
BS_SW_0237	HHFW3	HH	1	A	30	Lost from view in dip. Same bird as _236.	15/05/2018	06:19	503.597	30
BS_SW_0238_a	HHFW3	HH	1	A	240	Immature male lost in dip after being mobbed by adult female.	15/05/2018	06:30	2581.319	240
BS_SW_0238_b	HHFW3	HH	1	B	120		15/05/2018	06:30	1384.972	120
BS_SW_0238_c	HHFW3	HH	1	A	120		15/05/2018	06:30	2941.858	120
BS_SW_0239	HHFW3	HH	1	A	45	Adult female mobbed immature male then landed.	15/05/2018	06:38	567.417	45
BS_SW_0240	HHFW3	HH	1	A	45	Same bird as _239. Took food from adult male, chased immature male, then landed.	15/05/2018	06:42	534.289	45
BS_SW_0241	HHFW3	HH	1	A	60	Adult male in with food, then mobbed immature male until lost from view.	15/05/2018	06:42	521.284	60
BS_SW_0242	HHFW3	HH	1	A	60	Immature male lost from view when chased by adult male.	15/05/2018	06:42	536.293	60
BS_SW_0243	HHFW3	HH	1	A	30	Adult male. Quartering. Lost in dip.	15/05/2018	07:07	604.946	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0244	HHFW2	HH	1	A	135	Adult male in with food. Passed to female.	15/05/2018	06:28	815.731	135
BS_SW_0245	HHFW2	HH	1	B	105	Female up off nest. Took food from male.	15/05/2018	06:30	493.081	105
BS_SW_0246_a	HHFW2	HH	1	A	30	Female left with male to north.	15/05/2018	06:41	177.035	30
BS_SW_0246_b	HHFW2	HH	1	B	30		15/05/2018	06:41	239.41	30
BS_SW_0246_c	HHFW2	HH	1	A	75		15/05/2018	06:41	1243.795	75
BS_SW_0246_d	HHFW2	HH	1	B	30		15/05/2018	06:41	880.806	30
BS_SW_0246_e	HHFW2	HH	1	A	15		15/05/2018	06:41	239.23	15
BS_SW_0247_a	HHFW2	HH	1	A	135	Adult male chased female around then slow flight together to north, over ridge.	15/05/2018	06:41	827.597	135
BS_SW_0247_b	HHFW2	HH	1	B	30		15/05/2018	06:41	1069.184	30
BS_SW_0247_c	HHFW2	HH	1	A	15		15/05/2018	06:41	201.614	15
BS_SW_0248_a	HHFW2	HH	1	A	105	Adult male.	15/05/2018	07:23	1566.353	105
BS_SW_0248_b	HHFW2	HH	1	B	30		15/05/2018	07:23	522.362	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0249	HHFW2	HH	1	A	30	Male. Picked up food from cache on slope above plantation & straight to nest; then perched in tree.	15/05/2018	08:04	475.846	30
BS_SW_0250_a	HHFW2	HH	1	A	75	Same bird as _249. Flew up ridge, hanging in wind.	15/05/2018	08:08	303.836	75
BS_SW_0250_b	HHFW2	HH	1	B	45		15/05/2018	08:08	268.417	45
BS_SW_0250_c	HHFW2	HH	1	A	15		15/05/2018	08:08	175.275	15
BS_SW_0251	HHFW2	HH	1	A	15	Adult male appeared low in vegetation, landed & remained til 13:45.	25/05/2018	13:40	343.048	15
BS_SW_0252_a	HHFW4	HH	1	A	195	Adult female, circling. Flew west to meet male to take food back to nest. Flew west & returned.	02/06/2018	18:30	3104.852	195
BS_SW_0252_b	HHFW4	HH	1	B	150		02/06/2018	18:30	2745.42	150
BS_SW_0252_c	HHFW4	HH	1	A	45		02/06/2018	18:30	385.297	45
BS_SW_0253_a	HHFW4	HH	1	B	45	In from west, above female. Food pass. Flew south, low.	02/06/2018	18:32	341.54	45
BS_SW_0253_b	HHFW4	HH	1	A	30		02/06/2018	18:32	604.534	30
BS_SW_0254	HHFW4	HH	1	A	30	Female up around nest area.	02/06/2018	18:44	353.963	30



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0255_a	HHFW4	HH	1	A	60	Female flew over road, calling, then returned to nest.	02/06/2018	18:54	1307.335	60
BS_SW_0255_b	HHFW4	HH	1	B	120		02/06/2018	18:54	714.73	120
BS_SW_0255_c	HHFW4	HH	1	A	60		02/06/2018	18:54	3110.452	60
BS_SW_0256	HHFW4	HH	1	A	30	Female around nest.	02/06/2018	19:30	228.032	30
BS_SW_0257_a	HHFW4	HH	1	B	45	Male in with food then back to sit on moor.	02/06/2018	20:37	815.583	45
BS_SW_0257_b	HHFW4	HH	1	A	30		02/06/2018	20:37	359.541	30
BS_SW_0258_a	HHFW4	HH	1	A	15	Food pass in air to female then low into nest area.	02/06/2018	20:39	139.579	15
BS_SW_0258_b	HHFW4	HH	1	B	45		02/06/2018	20:39	186.715	45
BS_SW_0258_c	HHFW4	HH	1	A	30		02/06/2018	20:39	249.252	30
BS_SW_0259_a	HHFW4	HH	1	A	15	Female accepts food and returns to nest.	02/06/2018	20:39	176.552	15
BS_SW_0259_b	HHFW4	HH	1	B	30		02/06/2018	20:39	359.408	30
BS_SW_0259_c	HHFW4	HH	1	A	30		02/06/2018	20:39	258.122	30
BS_SW_0260	HHFW4	HH	1	A	75	Female took food out to eat on moor.	02/06/2018	20:43	580.038	75



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0261	HHFW4	HH	1	A	60	Female back into nest area.	02/06/2018	21:00	518.749	60
BS_SW_0262	HHFW4	HH	1	A	60	Mle calling and circling over nest area as mist rolled in off sea.	02/06/2018	21:14	784.069	60
BS_SW_0263	HHFW6	HH	1	A	60	Female off nest to stretch wings, landing on hillside briefly.	02/06/2018	06:02	1051.944	60
BS_SW_0264	HHFW6	HH	1	A	45	Same female back on to nest.	02/06/2018	06:04	260.71	45
BS_SW_0265	HHFW6	HH	1	A	60	Adult male over nest area then direct flight, south over road.	02/06/2018	07:26	826.792	60
BS_SW_0266_a	HHFW6	HH	1	B	30	Adult male with food, passed to female, then sat on fencepost.	02/06/2018	07:30	172.441	30
BS_SW_0266_b	HHFW6	HH	1	A	30		02/06/2018	07:30	435.009	30
BS_SW_0267_a	HHFW6	HH	1	B	15	Female took food from male. Returned to nest. Constantly calling.	02/06/2018	07:30	213.599	15
BS_SW_0267_b	HHFW6	HH	1	A	30		02/06/2018	07:30	151.845	30
BS_SW_0268	HHFW6	HH	1	A	15	Female off nest with food, out of view to north, over mound.	02/06/2018	07:32	212.453	15
BS_SW_0269	HHFW6	HH	1	A	30	Off fence and onto ridge above nest.	02/06/2018	07:32	460.565	30
BS_SW_0270	HHFW6	HH	2	A	60	Pair circling over nesting area, then landed.	02/06/2018	08:00	533.373	120
BS_SW_0853	HHFW4	HH	1	A	30	Male on to hillside. Ate prey item.	03/06/2018	10:05	274.852	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0854	HHFW4	HH	1	A	30	Female.	03/06/2018	10:55	446.146	30
BS_SW_0855	HHFW4	HH	1	A	135	Female around nest then interacted with male (food pass?). Landed in tree near nest.	03/06/2018	11:26	1023.005	135
BS_SW_0856	HHFW4	HH	1	A	105	Male interacting with female. Poss. food pass.	03/06/2018	11:27	1938.744	105
BS_SW_0857	HHFW5	HH	1	A	60	Female.	28/06/2018	14:53	573.956	60
BS_SW_0858	HHFW5	HH	1	A	240	Unaged/unsexed bird. Skimming tops of trees. Flew low and poss. landed.	28/06/2018	15:09	1163.635	240
BS_SW_0859	HHFW2	HH	1	A	240	Adult female unsuccessfully hunting near nest. Sat in area for 60s.	06/06/2018	18:23	948.819	240
BS_SW_0860	HHFW2	HH	1	A	180	Same bird as _859. Continued hunting and then returned to nest without prey.	06/06/2018	18:28	1003.693	180
BS_SW_0861_a	HHFW2	HH	1	B	30	Adult male, calling, carrying prey.	06/06/2018	19:02	158.054	30
BS_SW_0861_b	HHFW2	HH	1	A	30		06/06/2018	19:02	217.096	30
BS_SW_0862	HHFW2	HH	1	A	30	Perched in tree preening/loafing. No sign of food pass. Flew off north.	06/06/2018	19:27	339.092	30
BS_SW_0863_a	HHFW4	HH	1	B	15	Female hunting. Distracted by 3xNX flying over nesting area.	06/06/2018	18:43	273.827	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0863_b	HHFW4	HH	1	A	15		06/06/2018	18:43	171.711	15
BS_SW_0863_c	HHFW4	HH	1	B	15		06/06/2018	18:43	328.145	15
BS_SW_0863_d	HHFW4	HH	1	A	60		06/06/2018	18:43	1099.212	60
BS_SW_0864	HHFW4	HH	1	B	60	Male. Food pass. Continued northeast. Flew closely through turbine blades.	06/06/2018	20:00	948.324	60
BS_SW_0865_a	HHFW4	HH	1	B	45	Female. Food pass. Female dropped down to northeast of nest. Flew closely through turbine blades.	06/06/2018	20:00	586.558	45
BS_SW_0865_b	HHFW4	HH	1	A	15		06/06/2018	20:00	129.468	15
BS_SW_0866	HHFW6	HH	1	A	90	Adult female, hunting successfully, then back to nest.	07/06/2018	09:35	811.247	90
BS_SW_0867	HHFW6	HH	1	A	120	Adult female, hunting successfully, then back to nest.	07/06/2018	10:40	1133.946	120
BS_SW_0868	HHFW6	HH	1	A	90	Adult female flew into valley then back to nest.	07/06/2018	10:48	1045.574	90
BS_SW_0869	HHFW6	HH	1	A	30	Adult male. Flew over nest, fast. Possible food drop or poss. disturbed by dog walkers nearby.	07/06/2018	11:35	697.358	30
BS_SW_0870_a	HHFW2	HH	1	B	30	Female hunting unsuccessfully. Returned to nesting area.	07/06/2018	10:08	406.577	30

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0870_b	HHFW2	HH	1	A	15		07/06/2018	10:08	550.187	15
BS_SW_0870_c	HHFW2	HH	1	B	30		07/06/2018	10:08	987.161	30
BS_SW_0870_d	HHFW2	HH	1	A	45		07/06/2018	10:08	1556.904	45
BS_SW_0871_a	HHFW2	HH	1	B	15	Male. Food pass. Perched above rocks for 30s, female returned, called, then male flew out of sight.	07/06/2018	10:38	180.468	15
BS_SW_0871_b	HHFW2	HH	1	A	15		07/06/2018	10:38	79.984	15
BS_SW_0871_c	HHFW2	HH	1	A	30		07/06/2018	10:38	465.339	30
BS_SW_0872_a	HHFW2	HH	1	A	45	Female. Food pass. Returned to perched male and then to nest after male left area.	07/06/2018	10:38	539.123	45
BS_SW_0872_b	HHFW2	HH	1	B	15		07/06/2018	10:38	394.304	15
BS_SW_0872_c	HHFW2	HH	1	A	15		07/06/2018	10:38	160.171	15
BS_SW_0873_a	HHFW6	HH	1	A	15		08/06/2018	11:48	124.064	15
BS_SW_0873_b	HHFW6	HH	1	B	15		08/06/2018	11:48	133.908	15
BS_SW_0873_c	HHFW6	HH	1	A	60	Male. Food pass. Continued hunting.	08/06/2018	11:48	1439.423	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0874	HHFW6	HH	1	A	15	Female. Food pass. Dropped down to nest afterwards.	08/06/2018	11:48	163.452	15
BS_SW_0875	HHFW6	HH	1	A	30	Male dropped food near nest and landed to east.	08/06/2018	14:28	814.255	30
BS_SW_0876	HHFW6	HH	1	A	15	Female. Short flight to get prey item.	08/06/2018	14:28	67.883	15
BS_SW_0877	HHFW6	HH	1	A	30	Male, hunting successfully. Fed for 2 mins.	08/06/2018	14:30	335.08	30
BS_SW_0878	HHFW6	HH	1	A	30	Male returned to female. May have dropped food remains. Landed east of nest.	08/06/2018	14:32	818.019	30
BS_SW_0879	HHFW6	HH	1	A	15	Male, hunting successfully. Fed for 1 min.	08/06/2018	14:34	237.465	15
BS_SW_0880_a	HHFW6	HH	1	A	45	Male, direct flight over female, gained height by circling. Continued to hunt by plantation edge.	08/06/2018	14:35	683.365	45
BS_SW_0880_b	HHFW6	HH	1	B	120		08/06/2018	14:35	4501.445	120
BS_SW_0880_c	HHFW6	HH	1	A	60		08/06/2018	14:35	1092.326	60
BS_SW_0881_a	HHFW4	HH	1	A	90	Female hunting. Landed away from nest.	09/06/2018	12:46	859.869	90
BS_SW_0881_b	HHFW4	HH	1	B	60		09/06/2018	12:46	374.182	60
BS_SW_0881_c	HHFW4	HH	1	A	15		09/06/2018	12:46	423.578	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0882	HHFW4	HH	1	A	15	Female. Flew from hillside and lost from view.	09/06/2018	13:00	202.461	15
BS_SW_0883	HHFW4	HH	1	A	60	Female. Alarm called. Lost from view.	09/06/2018	13:15	905.957	60
BS_SW_0884_a	HHFW4	HH	1	C	195	Adult male. Soaring flight - possibly male from northerly nest. Lost from view, high to northeast.	09/06/2018	13:43	5756.708	195
BS_SW_0884_b	HHFW4	HH	1	D	90		09/06/2018	13:43	600.571	90
BS_SW_0885_a	HHFW4	HH	1	C	150	Female. Soaring flight. Landed on hillside.	09/06/2018	13:57	1635.508	150
BS_SW_0885_b	HHFW4	HH	1	B	45		09/06/2018	13:57	669.358	45
BS_SW_0885_c	HHFW4	HH	1	A	30		09/06/2018	13:57	332.972	30
BS_SW_0886	HHFW4	HH	1	A	75	Female. Flew from perch and into nest area.	09/06/2018	14:15	635.823	75
BS_SW_0887_a	HHFW4	HH	1	A	15	Soaring over hill, calling, then landed in tree near nest. Calling male?	09/06/2018	14:31	954.663	15
BS_SW_0887_b	HHFW4	HH	1	B	90	No third height change mapped on field map. So second section mapped as B entirely.	09/06/2018	14:31	768.581	90
BS_SW_0888_a	HHFW4	HH	1	A	135	Male. Possible food pass but not seen by obs. Bird spiralled high and out of view.	09/06/2018	14:55	2613.718	135

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0888_b	HHFW4	HH	1	B	165		09/06/2018	14:55	2415.816	165
BS_SW_0889	HHFW6	HH	1	A	30	Adult female. Landed on mound behind nest.	19/06/2018	17:55	106.509	30
BS_SW_0890	HHFW6	HH	1	A	45	Flew from mound to take food from male to nest.	19/06/2018	18:12	938.776	45
BS_SW_0891	HHFW6	HH	1	A	135	Adult male. Food pass in mid-air. Continued hunting out of sight behind mound.	19/06/2018	18:12	2168.807	135
BS_SW_0892	HHFW6	HH	1	A	105	Female. Received food from male behind HHFW6. Calling and interacting when flying back to nest.	19/06/2018	18:33	865.466	105
BS_SW_0893	HHFW6	HH	1	A	105	Male. Flew in front of female, calling. Landed on mound behind nest.	19/06/2018	18:33	916.019	105
BS_SW_0894	HHFW6	HH	1	A	105	Male. Flew from mound to hunt.	19/06/2018	18:47	1852.048	105
BS_SW_0895_a	HHFW6	HH	2	A	60	2x adult males around nest area. One almost landed at nest. High circling & soaring flight...	19/06/2018	19:24	845.38	120
BS_SW_0895_b	HHFW6	HH	2	B	195	.....together. Lost from view heading towards nest site at HHFW2.	19/06/2018	19:24	4838.945	390
BS_SW_0895_c	HHFW6	HH	2	C	135		19/06/2018	19:24	3070.251	270
BS_SW_0896_a	HHFW5	HH	1	B	90	Adult female hunting.	20/06/2018	10:16	400.701	90

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0896_b	HHFW5	HH	1	A	30		20/06/2018	10:16	305.912	30
BS_SW_0897	HHFW5	HH	1	B	150	Adult male, soaring flight. Lost to view.	20/06/2018	10:50	3717.812	150
BS_SW_0898_a	HHFW5	HH	1	A	210	Different adult male to _897. Hunting. Food pass to breeding female.	20/06/2018	10:52	1228.888	210
BS_SW_0898_b	HHFW5	HH	1	B	30		20/06/2018	10:52	1357.762	30
BS_SW_0898_c	HHFW5	HH	1	A	15		20/06/2018	10:52	302.525	15
BS_SW_0899_a	HHFW5	HH	1	A	15	Adult female flew from nest to receive food from male _898.	20/06/2018	10:57	260.009	15
BS_SW_0899_b	HHFW5	HH	1	B	30		20/06/2018	10:57	334.035	30
BS_SW_0899_c	HHFW5	HH	1	A	30		20/06/2018	10:57	72.809	30
BS_SW_0900	HHFW5	HH	1	A	150	Adult male, hunting at tree-top level.	20/06/2018	11:12	2418.15	150
BS_SW_0901	HHFW5	HH	1	A	90	Adult female, hunting within plantation.	20/06/2018	11:58	1002.781	90
BS_SW_0902	HHFW5	HH	1	A	135	Adult male, hunting successfully (MP/S.) Pluck prey item for 2 mins.	20/06/2018	13:05	575.257	135
BS_SW_0903_a	HHFW5	HH	1	A	60	Same male as _902. Food pass. Lost to view.	20/06/2018	13:09	524.975	60

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0903_b	HHFW5	HH	1	B	30		20/06/2018	13:09	575.666	30
BS_SW_0903_c	HHFW5	HH	1	A	15		20/06/2018	13:09	205.5	15
BS_SW_0904	HHFW5	HH	1	A	45	Adult female. Received food from male, then flew back into plantation.	20/06/2018	13:10	428.223	45
BS_SW_0905	HHFW2	HH	1	A	15	Adult female, hunting.	21/06/2018	06:26	596.218	15
BS_SW_0906_a	HHFW5	HH	1	B	60		22/06/2018	19:06	847.577	60
BS_SW_0906_b	HHFW5	HH	1	A	60		22/06/2018	19:06	687.304	60
BS_SW_0907_a	HHFW5	HH	1	B	30	Adult male. Slow, soaring flight, then lost from view low, to south. Passed over nest only.	25/06/2018	05:11	259.647	30
BS_SW_0907_b	HHFW5	HH	1	C	90		25/06/2018	05:11	1317.872	90
BS_SW_0907_c	HHFW5	HH	1	B	90		25/06/2018	05:11	1573.334	90
BS_SW_0907_d	HHFW5	HH	1	A	45		25/06/2018	05:11	574.012	45
BS_SW_0908	HHFW7	HH	1	A	45	Adult male, hunting along ditch.	25/06/2018	14:00	949.332	45
BS_SW_0909	HHFW7	HH	1	A	45	Adult female, hunting along ditch.	25/06/2018	14:52	945.388	45

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0910	HHFW7	HH	1	A	120	Adult female. Flew from nesting area, hunting along ditch, unsuccessfully.	25/06/2018	15:05	1468.85	120
BS_SW_0911_a	HHFW7	HH	1	B	45	Female into nest with food.	25/06/2018	15:28	763.732	45
BS_SW_0911_b	HHFW7	HH	1	A	30	Female flew off nest to hunt. Lost from view.	25/06/2018	15:28	282.097	30
BS_SW_0912	HHFW7	HH	1	A	210		25/06/2018	15:30	1272.755	210
BS_SW_0913	HHFW4	HH	1	A	45	Adult female. Flew from nest area and landed on fence post.	26/06/2018	05:06	1052.629	45
BS_SW_0914	HHFW4	HH	1	A	15	Same bird as _913, flew from fence post.	26/06/2018	05:40	284.091	15
BS_SW_0915_a	HHFW4	HH	1	B	30	Female flew back from west, mobbed a perched RN, and landed on fence post.	26/06/2018	06:07	409.234	30
BS_SW_0915_b	HHFW4	HH	1	A	30		26/06/2018	06:07	271.365	30
BS_SW_0916	HHFW4	HH	1	A	15	Same bird as _913-915. Lost from view, low.	26/06/2018	06:25	94.746	15
BS_SW_0917	HHFW4	HH	1	B	75	Female. Slow and direct flight, lost to view to west.	26/06/2018	07:15	921.879	75
BS_SW_0918_a	HHFW4	HH	1	A	45	Female sitting on bank (came in from out of view). Mobbed by HG.....	26/06/2018	07:55	478.934	45





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0918_b	HHFW4	HH	1	B	30	.....Flew over nest area and lost from view around hill.	26/06/2018	07:55	667.253	30
BS_SW_0918_c	HHFW4	HH	1	A	45		26/06/2018	07:55	675.585	45
BS_SW_0919_a	HHFW7	HH	1	B	120	Adult male. Soaring flight. Lost to view to west.	28/06/2018	11:15	1783.67	120
BS_SW_0919_b	HHFW7	HH	1	C	180		28/06/2018	11:15	3753.237	180
BS_SW_0919_c	HHFW7	HH	1	B	30		28/06/2018	11:15	198.323	30
BS_SW_0920_a	HHFW7	HH	1	B	45	Ringtail. Distantly viewed - poss. juvenile from HHFW4. Lost low in swale.	28/06/2018	11:41	318.531	45
BS_SW_0920_b	HHFW7	HH	1	A	15		28/06/2018	11:41	225.2	15
BS_SW_0921_a	HHFW7	HH	1	B	15	Adult male. Poss. disturbed by walker. Lost low behind nesting slope.	28/06/2018	11:30	662.308	15
BS_SW_0921_b	HHFW7	HH	1	A	240		28/06/2018	11:30	1950.532	240
BS_SW_0922	HHFW5	HH	1	A	195	Adult female, hunting. No response from male perched on fence. Lost behind hill.	12/07/2018	07:32	1549.828	195
BS_SW_0923	HHFW5	HH	1	A	135	Adult male. Perched on fence since 06:48. Lost behind hill, hunting.	12/07/2018	07:42	1149.982	135

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0924_a	HHFW5	HH	1	A	45	Adult male. Perched on fence since 08:12 (not seen to arrive). Lost in dip, hunting passerines....	12/07/2018	08:14	425.229	45
BS_SW_0924_b	HHFW5	HH	1	B	15	.....Prob. same bird as _923.	12/07/2018	08:14	240.626	15
BS_SW_0924_c	HHFW5	HH	1	A	15		12/07/2018	08:14	293.17	15
BS_SW_0925	HHFW5	HH	1	A	120	Adult male. Same bird as _924. Hunting. Lost from view behind hill.	12/07/2018	08:17	1966.572	120
BS_SW_0926	HHFW7	HH	1	A	105	Adult female in with prey. Dropped at nest and continued flight. Lost in trees.	11/07/2018	12:48	1074.915	105
BS_SW_0927_a	HHFW6	HH	1	B	60	Adult female. Chased gulls from nesting area. Young heard calling but not provisioned.....	11/07/2018	09:52	746.521	60
BS_SW_0927_b	HHFW6	HH	1	A	165	.....Bird lost from view behind hummocks.	11/07/2018	09:52	2018.091	165
BS_SW_0928	HHFW4	HH	1	A	45	Juv. low over hill, mobbed GB, then lost in trees.	14/07/2018	09:50	237.362	45
BS_SW_0929	HHFW4	HH	1	A	15	Juv. lost from view in trees.	14/07/2018	10:20	148.406	15
BS_SW_0930	HHFW4	HH	1	A	60	Juv. Hunting. Landed in tree.	14/07/2018	10:56	419.698	60
BS_SW_0931	HHFW4	HH	1	A	165	Juv. Hunting. Landed on ground. Same bird as _930.	14/07/2018	10:58	301.127	165

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0932	HHFW4	HH	1	A	75	Juv. Same bird as _930/931. Landed on ground after tentatively hunting.	14/07/2018	11:05	405.303	75
BS_SW_0933	HHFW4	HH	2	A	360	Juvs. Interacting & hunting (one bird was _930/1/2). Both birds landed in rushes & mobbed gulls.	14/07/2018	11:10	706.238	720
BS_SW_0934	HHFW4	HH	1	A	195	Juv. Hunting. Lots of landing for 1-2 secs.	14/07/2018	12:12	276.7	195
BS_SW_0935	HHFW4	HH	2	A	45	Juvs. Hunting. Lots of landing for 1-2 secs. Eventually landed in long grass.	14/07/2018	12:42	118.97	90
BS_SW_0936	HHFW4	HH	1	A	45	Juv.	13/07/2018	10:50	335.465	45
BS_SW_0937	HHFW4	HH	1	A	60	Juv.	13/07/2018	11:08	400.888	60
BS_SW_0938	HHFW4	HH	1	A	45	Juv.	13/07/2018	13:05	571.831	45
BS_SW_0939	HHFW4	HH	1	A	60	Juv.	13/07/2018	13:08	613.44	60
BS_SW_0940	HHFW4	HH	1	A	60	Juv.	13/07/2018	13:11	462.368	60
BS_SW_0941	HHFW4	HH	2	A	45	Juv.	13/07/2018	13:13	1128.638	90
BS_SW_0942	HHFW4	HH	2	A	90	Juv.	13/07/2018	13:18	1081.291	180

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0943	HHFW6	HH	1	A	60	Unaged/unsexed.	14/07/2018	11:08	781.5	60
BS_SW_0944	HHFW6	HH	1	A	45	Unaged/unsexed.	14/07/2018	11:10	420.679	45
BS_SW_0945_a	HHFW6	HH	2	A	45	Unaged/unsexed.	14/07/2018	11:14	615.37	90
BS_SW_0945_b	HHFW6	HH	2	B	45	Unaged/unsexed.	14/07/2018	11:14	713.056	90
BS_SW_0945_c	HHFW6	HH	2	A	30	Unaged/unsexed.	14/07/2018	11:14	378.221	60
BS_SW_0946_a	HHFW6	HH	2	A	60	Unaged/unsexed.	14/07/2018	11:46	714.971	120
BS_SW_0946_b	HHFW6	HH	2	B	30	Unaged/unsexed.	14/07/2018	11:46	166.966	60
BS_SW_0946_c	HHFW6	HH	2	A	15	Unaged/unsexed.	14/07/2018	11:46	180.664	30
BS_SW_0947	HHFW6	HH	2	A	45	Unaged/unsexed.	14/07/2018	11:51	452.306	90
BS_SW_0948	HHFW4	HH	1	A	75	Fledged juv. practice flights.	30/06/2018	11:22	463.17	75
BS_SW_0949	HHFW4	HH	1	A	15	Fledged juv. practice flights.	30/06/2018	11:26	463.372	15
BS_SW_0950	HHFW4	HH	1	A	15	Fledged juv. practice flights.	30/06/2018	11:28	456.07	15
BS_SW_0951	HHFW4	HH	2	A	60	Fledged juvs. practice flights.	30/06/2018	11:30	450.482	120

Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0952_a	HHFW4	HH	1	B	90	Adult female associating with juveniles. Hunting unsuccessfully.	30/06/2018	12:15	1153.84	90
BS_SW_0952_b	HHFW4	HH	1	A	75		30/06/2018	12:15	567.078	75
BS_SW_0953	HHFW4	HH	2	A	60	Juvs. Begging for food from female but none provided.	30/06/2018	12:15	181.959	120
BS_SW_0954	HHFW4	HH	1	A	165	Juv.	30/06/2018	12:37	358.818	165
BS_SW_0955_a	HHFW6	HH	1	B	15	Female. Delivered mammalian prey item to nest.	30/06/2018	06:50	196.435	15
BS_SW_0955_b	HHFW6	HH	1	A	45		30/06/2018	06:50	341.951	45
BS_SW_0956_a	HHFW6	HH	1	A	15	Female. Circling then hunting.	30/06/2018	06:52	407.383	15
BS_SW_0956_b	HHFW6	HH	1	B	75		30/06/2018	06:52	1598.736	75
BS_SW_0957	HHFW6	HH	1	A	45	Female. Delivered mammalian prey item to nest.	30/06/2018	07:26	707.806	45
BS_SW_0958_a	HHFW6	HH	1	A	15	Female. Flew from nest to hunt.	30/06/2018	07:27	230.632	15
BS_SW_0958_b	HHFW6	HH	1	B	60		30/06/2018	07:27	1149.1	60
BS_SW_0959	HHFW6	HH	1	A	45	Female, hunting (unsure if resident female breeding at HHFW6 nest site).	30/06/2018	07:36	325.292	45





Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0960	HHFW6	HH	1	A	90	Female. Delivered mammalian prey item to nest.	06/07/2018	09:18	650.867	90
BS_SW_0961	HHFW6	HH	1	A	60	Female. Flew from nest to hunt.	06/07/2018	09:22	711.147	60
BS_SW_0962	HHFW6	HH	1	A	45	Female. Delivered mammalian prey item to nest.	06/07/2018	10:10	641.415	45
BS_SW_0963_a	HHFW6	HH	1	A	30	Female. Flew from nest to hunt.	06/07/2018	10:12	233.688	30
BS_SW_0963_b	HHFW6	HH	1	B	30		06/07/2018	10:12	220.178	30
BS_SW_0964	HHFW6	HH	1	A	45	Female. Delivered prey item to nest.	06/07/2018	11:26	644.127	45
BS_SW_0965	HHFW6	HH	1	A	75		06/07/2018	11:29	636.772	75
BS_SW_0966	HHFW4	HH	1	A	15	Ringtail. Hunting. Lost from view behind mound.	26/07/2018	19:24	625.004	15
BS_SW_0967_a	HHFW6	HH	1	B	60	Male.	29/06/2018	11:10	926.66	60
BS_SW_0967_b	HHFW6	HH	1	A	30		29/06/2018	11:10	252.926	30
BS_SW_0968	HHFW6	HH	1	A	45	Female appeared on ridge near nest with male. Circled and appeared to go into nest.	29/06/2018	11:12	372.763	45
BS_SW_0969	HHFW6	HH	1	A	15	Female flew from nest, low, out of sight.	29/06/2018	11:16	431.56	15



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0970	HHFW6	HH	1	A	75	Female.	29/06/2018	12:21	990.316	75
BS_SW_0971_a	HHFW6	HH	1	A	30	Female.	29/06/2018	12:23	724.791	30
BS_SW_0971_b	HHFW6	HH	1	B	15		29/06/2018	12:23	174.763	15
BS_SW_0971_c	HHFW6	HH	1	A	60		29/06/2018	12:23	933.162	60
BS_SW_0972	HHFW6	HH	1	A	15	Female. Dropped down prob. into nest.	21/06/2018	15:03	267.304	15
BS_SW_0973	HHFW6	HH	1	A	135	Female. Landed.	21/06/2018	15:12	569.903	135
BS_SW_0974	HHFW6	HH	1	A	105	Mobbed by HG.	21/06/2018	15:15	931.57	105
BS_SW_0975	HHFW6	HH	1	A	30	Female flew down towards nest.	21/06/2018	15:46	445.065	30
BS_SW_0977	HHFW4	HH	1	A	195	Female.	22/06/2018	15:03	346.214	195
BS_SW_0978	HHFW4	HH	1	A	90	Female flew out of tree and down to nest.	22/06/2018	16:58	143.409	90
BS_SW_0979_a	HHFW4	HH	1	A	60	Flew towards turbine, mobbed RN and then flew higher to west.	22/06/2018	15:22	467.533	60
BS_SW_0979_b	HHFW4	HH	1	B	75		22/06/2018	15:22	343.257	75
BS_SW_0980_a	HHFW4	HH	1	A	75	Male, came in from west, landed by burn.	22/06/2018	15:09	259.042	75



Flight_Ref	VP	Species	Count	Heightband	Seconds	Notes	Date	Time	Length (m)	Total Time
BS_SW_0980_b	HHFW4	HH	1	B	30		22/06/2018	15:09	40.231	30
BS_SW_0980_c	HHFW4	HH	1	A	150		22/06/2018	15:09	497.71	150
BS_SW_0981_a	HHFW4	HH	1	A	45	Male by turbine 1.	22/06/2018	15:34	526.057	45
BS_SW_0982_b	HHFW4	HH	1	B	45		22/06/2018	15:34	321.902	45
BS_SW_0983	HHFW4	HH	1	A	60	Female.	22/06/2018	16:22	183.872	60
BS_SW_0984	HHFW4	HH	1	A	135	Male flew back towards nest.	22/06/2018	15:19	436.477	135
BS_SW_0985	HHFW4	HH	1	A	45	Flew to nest area.	22/06/2018	15:09	516.129	45
BS_SW_0986	HHFW4	HH	1	A	135	Male.	22/06/2018	17:08	208.842	135
BS_SW_0987	HHFW4	HH	2	A	405	Pair. Obs. followed male, skimming along tree tops. Landed in tree. Saw female occasionally.	22/06/2018	16:49	552.108	810
BS_SW_0988	HHFW4	HH	1	A	105	Female by turbine 2.	22/06/2018	15:28	1577.078	105