

Appendix 9.1 Ornithology Technical Report – Survey Work

Introduction

- 1.1. This report details the ornithological survey work undertaken at the site of the proposed Arecleoch Windfarm Extension (hereafter referred to as the 'proposed Development') by Natural Research (Projects) Ltd (NRP) between January 2014 and December 2014, April 2017 and August 2017, and April 2018 and March 2019. Three breeding seasons and two non-breeding seasons have been completed.
- 1.2. The objectives of the study were to:
- ◆ Map the distribution of breeding birds, including scarce breeding species listed in Annex 1 of the EU Birds Directive (2009/147/EEC) on the Conservation of Wild Birds 1979 (the Birds Directive) or Schedule 1 of the Wildlife and Countryside Act 1981 (as amended)(WCA).
 - ◆ Quantify the level of bird flight activity by breeding and foraging birds of potential conservation importance; and
 - ◆ Record the presence and abundance of other birds of conservation importance (those listed in Biodiversity Action Plans (BAPs) or on the Red List of Birds of Conservation Concern (BoCC) (Eaton *et al.* (2015)) throughout the year.
- 1.3. Please refer to **Figure 9.1a** to **Figure 9.9** in **Volume 3** for illustrations of all survey buffers and results.
- 1.4. This report is supported by **Confidential Appendix 9.3**.

Desk Study and Consultation

- 1.5. The Site is not statutorily designated at international or national levels for ornithological interests. The nearest Special Protection Area (SPA) is the Glen App and Galloway Moors SPA (approximately 3.2 km at its nearest point) which is designated for breeding hen harrier.

Table 1 Consultations

Consultee	Consultation Response	Applicant Action
SNH – Advice. Email from P Taylor October 2014	Advice on Vantage Point locations, survey areas and survey effort.	The advice was adhered to.
SNH – Advice. Email from G Walker June 2017	Advice on Vantage Point locations survey areas and survey effort.	The advice was adhered to.

Consultee	Consultation Response	Applicant Action
SNH Scoping Opinion	<i>"Glen App and Galloway Moors Special Protection Area (SPA)...the turbines of the proposed extension would be sited approximately 3km to the East of the SPA, with the operating Arecleoch wind farm being situated in between the SPA boundary and the proposed wind farm extension"</i>	Noted.
	<i>"Given the separation distance between the development site and the SPA, in line with our Guidance on Assessing Connectivity with Special Protection Areas (SPAs) (June 2016) - the development would be situated out with the core foraging range for hen harrier, which is the area in which we would consider there may be connectivity between the development site and the qualifying interests of the SPA. However, we reserve full judgement until we have considered the full ornithology survey findings."</i>	The possibility of connectivity with the SPA is discussed in the Assessment
	<i>"Glen App and Galloway Moors Site of Special Scientific Interest. Glen App and Galloway Moors SSSI is of national importance, shares the same boundary as the SPA and is also designated for breeding hen harrier. We also reserve full judgement on the impacts of the SSSI until we have considered the full ornithology survey results."</i>	The possibility of connectivity with the SSSI is discussed in the Assessment
	<i>"Our advice with regards to breeding birds is that the following mitigation is required to minimise the impact of the development: Ground or vegetation clearance works are undertaken out-with the main bird nesting season (March-August inclusive). If this is not possible, a suitably experienced ecologist should check the development site before work commences to determine the presence of any nesting birds. If nesting birds are found, a suitably sized buffer zone should be set up around the nest and no work within this zone should commence until the young have fledged or the nest is no longer in use. This will ensure that no nests are destroyed during the site construction works and no offences are committed under the Wildlife and Countryside Act 1981 (as amended)."</i>	Protection of breeding birds are discussed as part of the Embedded Measures in the Assessment
RSPB Scoping opinion	<i>"Red kites are known to be present in the area and ornithological surveys should take into account this species."</i>	Surveys covered all areas where this species might have occurred.

Study Areas and Survey Periods

- 1.6. The proposed Development is an extension to the existing Arecleoch Windfarm which has been operational since 2011. The study area is situated entirely in an area of commercial forestry with a maximum elevation of 228 m AOD. The existing Arecleoch Windfarm borders the Site to the west and the existing Kilgallioch Windfarm borders the Site to the east with other surrounding areas consisting of commercial forestry, rough grazing land and some small waterbodies and water courses. To the south west of the Site is Chirmorie

Windfarm which has been consented and to the east of the Site is, Altercannoch Windfarm which is currently the subject of an appeal against the decision of SAC to refuse planning permission.

- 1.7. Due to alterations in the area of interest, survey effort and coverage has varied between years. Surveys relevant to the proposed Development commenced in January 2014 and ended in December 2014. Surveys then recommenced for a slightly altered area of interest for the period between April 2017 to August 2017 and finally recommenced for this area in April 2018 and finished in March 2019 (**Figure 9.1a & 9.1b**). This provides data for three bird breeding periods and two non-breeding periods
- 1.8. Some birds range over large areas and are therefore potentially vulnerable to the effects of wind farm developments a considerable distance away. Hence the ornithological study area encompassed a series of survey boundaries extending up to 2 km from the Site. These boundaries defined the study area for surveys of certain species or for a particular survey method i.e. 500 m for flight activity, for breeding passerines, waders, and for wintering birds; 1 km for breeding barn owl and goshawk; 1.5 km for black grouse; 2 km for other breeding raptors and short-eared owl.
- 1.9. The proposed turbine layout differs from the areas used for survey design, therefore, to ensure that only survey results relevant to the final proposed Development are reported on, the proposed layout has been buffered accordingly and results tailored to those buffers where possible (**Figure 9.2**).

Field Survey Methods

- 1.10. The field surveyors were A. Ash (AA), B. Dunlop (BJD), D. Maloney (DM), B. Stakim (RAS) and N. Thurgate (NT). Field surveyors received training prior to and during survey work. Training included the various survey methods, techniques to minimise fieldworker effects on bird detection, and the classification of bird behaviour. Training was provided irrespective of surveyors’ previous experience. Emphasis was placed on the importance of carrying out surveys in a systematic and standardised way to enable direct comparison of data from different survey periods and sites.

Flight Activity

- 1.11. Information on bird flight activity was collected during timed watches from strategic Generic Vantage Points (GVPs) using the methods described by Band *et al.* (2007). GVPs were selected through a mix of GIS analysis and field trials, with the aim of maximising ground visibility within the 500 m flight activity survey area using the minimum number of vantage points (**Figure 9.3**).
- 1.12. Eleven Generic Vantage Points (GVPs) have been used in VP survey effort to date. For the area of interest identified in 2014 seven were established. Three of these GVPs were then continued to cover the second area of interest from 2017 to date, with a substitution of four new GVPs as these were found to provide better coverage over the revised area.
- 1.13. In order to select flights for potential inclusion in a Collision Risk Model (CRM) (Band *et al.* 2007), flight activity data were extracted and reported in respect of a 500 m buffer around a polygon formed by the outermost of the eight turbine locations of the proposed Development. This area is termed the Flight Activity Assessment Area (FA).

- 1.14. The FA measures 8.83 km². For the FA the area observed from at least one GVP measures 7.99 km², a spatial coverage of 90.5 % at 20 m above ground level with a 2 km cut-off. (**Table 2**).

Table 2 Generic Vantage Point locations and area visible (ha) within the 500 m buffer of the proposed turbines (FA)

GVP	Grid Reference	Dates GVP utilised	Area Visible (ha) within 500 m buffer (2 km cut-off)
1	NX 18440 79570	January 2014 to December 2014	556.1
5	NX 21902 79845	January 2014 to December 2014 April 2017 to August 2017 April 2018 to March 2019	95.1
6	NX 21902 79845	January 2014 to December 2014	1.6
7	NX 20840 77078	January 2014 to December 2014	53.4
8	NX 20796 83474	January 2014 to December 2014 April 2017 to August 2017 April 2018 to March 2019	0
9	NX 19307 83319	January 2014 to December 2014 April 2017 to August 2017 April 2018 to March 2019	161.2
10	NX 19526 81286	January 2014 to December 2014	111.4
15	NX 17764 79761	April 2017 to August 2017 April 2018 to March 2019	360.4
16	NX 19526 81286	April 2017 to August 2017 April 2018 to September 2018*	275.4
17	NX 19933 79700	April 2017 to August 2017 April 2018 to November 2018**	140.0
18	NX 17126 83791	April 2017 to August 2017 April 2018 to March 2019	47.9
19*	NX 20630 80559	November 2018 to March 2019	216.3
20**	NX 19933 79700	November 2018 to March 2019	229.7
Total			882.8
Total not including overlapping areas			798.7
*was required to replace GVP16, when felling was occurring close to the GVP16 location. Viewshed covers the majority of the area of GVP16.			
** replaced GVP17, with effectively the same location but a different viewing angle			

- 1.15. Observers at GVPs positioned themselves to minimise their effects on bird behaviour. A viewing arc not exceeding 180° was scanned. Watches were undertaken during daylight hours by a single observer in a wide range of weather conditions, mainly in conditions of good ground visibility (>2 km) and when the cloud base was higher than most elevated parts of the survey area.
- 1.16. A minimum of 36 hours of observation has been completed from each GVP for each period of each year (April to August classed as the breeding period and September to March classed as the non-breeding period). In 2014, for each GVP, 40 hours were completed in January to March and September to December (**Table 3a**), and 39 hours between April to August (**Table 3b**). In 2017, 36 hours were completed between April and August (**Table 4**), 36 hours were completed between April and August 2018 (**Table 5a**) and 36 hours between September 2018 and March 2019 (**Table 5b**). Thus in total 1310.5 hours of observation has been undertaken with 778.5 hours during the breeding season and 532 hours in the non-breeding season.
- 1.17. During the autumn of 2018 harvesting of trees within the forest meant that it was necessary to move two of the GVP locations for safety reasons. Therefore GVP16 was replaced by GVP19 and GVP17 was replaced by GVP20. The replacement GVPs were located in a way which allowed them to cover as much of the same area as possible (**Figure 9.3**).
- 1.18. When possible observations were stratified across three daylight periods (termed 'early', 'middle' and 'late') to allow for diurnal variation in activity rates. The timing of watches within each period was adjusted each month in accordance with sunrise and sunset times (**Annex 1.1 & 1.2**). A wide range of weather conditions were sampled including rain and snow showers, cloud cover from 0 to 100 % and wind speeds up to Beaufort Force 8 (**Annex 1.3**).

GVP	Daylight Period	Jan	Feb	Mar	Sep	Oct	Nov	Dec	Total
	M	3.0	3.5	4.0	4.5	3.5	3.0	2.5	24.0
	L	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
Total		5.0	5.5	7.0	7.5	5.5	5.0	4.5	40.0
8	E	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
	M	3.0	3.5	4.0	4.5	3.5	3.0	2.5	24.0
	L	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
Total		5.0	5.5	7.0	7.5	5.5	5.0	4.5	40.0
9	E	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
	M	3.0	3.5	4.0	4.5	3.5	3.0	2.5	24.0
	L	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
Total		5.0	5.5	7.0	7.5	5.5	5.0	4.5	40.0
10	E	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
	M	3.0	3.5	4.0	4.5	3.5	3.0	2.5	24.0
	L	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
Total		5.0	5.5	7.0	7.5	5.5	5.0	4.5	40.0

Table 3a Summary of monthly GVP effort in the non-breeding season with early, middle and late stratification in 2014 (Data are hours of observation).

GVP	Daylight Period	Jan	Feb	Mar	Sep	Oct	Nov	Dec	Total
1	E	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
	M	3.0	3.5	4.0	4.5	3.5	3.0	2.5	24.0
	L	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
Total		5.0	5.5	7.0	7.5	5.5	5.0	4.5	40.0
5	E	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
	M	3.0	3.5	4.0	4.5	3.5	3.0	2.5	24.0
	L	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
Total		5.0	5.5	7.0	7.5	5.5	5.0	4.5	40.0
6	E	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
	M	3.0	3.5	4.0	4.5	3.5	3.0	2.5	24.0
	L	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0
Total		5.0	5.5	7.0	7.5	5.5	5.0	4.5	40.0
7	E	1.0	1.0	1.5	1.5	1.0	1.0	1.0	8.0

Table 3b Summary of monthly GVP effort in the breeding season with early, middle and late stratification in 2014 (Data are hours of observation).

GVP	Daylight Period	Apr	May	Jun	Jul	Aug	Total
1	E	1.5	1.5	1.5	1.5	1.5	7.5
	M	4.5	5.0	5.0	5.0	4.5	24.0
	L	1.5	1.5	1.5	1.5	1.5	7.5
Total		7.5	8.0	8.0	8.0	7.5	39.0
5	E	1.5	1.5	1.5	1.5	1.5	7.5
	M	4.5	5.0	5.0	5.0	4.5	24.0
	L	1.5	1.5	1.5	1.5	1.5	7.5
Total		7.5	8.0	8.0	8.0	7.5	39.0
6	E	1.5	1.5	1.5	1.5	1.5	7.5
	M	4.5	5.0	5.0	5.0	4.5	24.0
	L	1.5	1.5	1.5	1.5	1.5	7.5
Total		7.5	8.0	8.0	8.0	7.5	39.0
7	E	1.5	1.5	1.5	1.5	1.5	7.5
	M	4.5	5.0	5.0	5.0	4.5	24.0
	L	1.5	1.5	1.5	1.5	1.5	7.5
Total		7.5	8.0	8.0	8.0	7.5	39.0
8	E	1.5	1.5	1.5	1.5	1.5	7.5
	M	4.5	5.0	5.0	5.0	4.5	24.0
	L	1.5	1.5	1.5	1.5	1.5	7.5
Total		7.5	8.0	8.0	8.0	7.5	39.0
9	E	1.5	1.5	1.5	1.5	1.5	7.5
	M	4.5	5.0	5.0	5.0	4.5	24.0
	L	1.5	1.5	1.5	1.5	1.5	7.5
Total		7.5	8.0	8.0	8.0	7.5	39.0
10	E	1.5	1.5	1.5	1.5	1.50	7.5
	M	4.5	5.0	5.0	5.0	4.50	24.0
	L	1.5	1.5	1.5	1.5	1.50	7.5
Total		7.5	8.0	8.0	8.0	7.5	39.0

Table 4 Summary of monthly GVP effort in the breeding season, with early, middle and late stratification in 2017 (Data are hours of observation).

GVP	Daylight Period	Apr	May	Jun	Jul	Aug	Total
5	E		1.5	1.5		1.0	4.0
	M	6.5	6.5	6.5	6.5	3.0	29.0
	L	1.5				1.5	3.0
Total		8.0	8.0	8.0	8.0	4.0	36.0
8	E		1.0	1.5		1.0	3.5
	M	6.5	7.0	6.5	6.5	3.0	29.5
	L	1.5				1.5	3.0
Total		8.0	8.0	8.0	8.0	4.0	36.0
9	E	1.5				1.5	3.0
	M	6.5	6.5	6.5	6.5	2.0	28.0
	L		1.5	1.5		2.0	5.0
Total		8.0	8.0	8.0	8.0	4.0	36.0
15	E		1.5	1.5		1.0	4.0
	M	6.58	6.5	6.5	6.5	3.0	29.08
	L	1.5				1.5	3.0
Total		8.08	8.0	8.0	8.0	4.0	36.08
16	E		1.5	1.5		1.0	4.0
	M	6.5	6.5	6.5	6.5	3.0	29.0
	L	1.5				1.5	3.0
Total		8.0	8.0	8.0	8.0	4.0	36.0
17	E	1.5				1.5	3.0
	M	6.5	6.5	6.5	6.5	3.0	29.0
	L		1.5	1.5		1.0	4.0
Total		8.0	8.0	8.0	8.0	4.0	36.0
18	E	1.0				1.5	2.5
	M	7.0	6.5	6.5	6.5	3.0	29.5
	L		1.5	1.5		1.0	4.0
Total		8.0	8.0	8.0	8.0	4.0	36.0

Table 5a Summary of monthly GVP effort in the breeding season, with early, middle and late stratification in 2018 (Data are hours of observation).

GVP	Daylight Period	Apr	May	Jun	Jul	Aug	Total
5	E	1.33	2.25			1.50	5.08
	M	4.66	9.42		7.50	4.50	26.08
	L		0.33	3.00	1.50		4.83
Total		6.00	12.00	3.00	9.00	6.00	36.00
8	E		1.50		1.50		3.00
	M	1.08	12.17		8.50	4.00	25.25
	L	0.92	1.33		3.00	2.00	7.25
Total		2.00	15.00	0.00	13.00	6.00	36.00
9	E		1.50		1.50		3.00
	M	4.50	8.25	3.00	4.50	4.50	24.75
	L	1.50	2.25	3.00		1.50	8.25
Total		6.00	12.00	6.00	6.00	6.00	36.00
15	E		2.08			1.50	3.58
	M	6.00	7.67	3.00	4.50	4.50	25.67
	L		2.25	3.00	1.50		6.75
Total		6.00	12.00	6.00	6.00	6.00	36.00
16	E	1.33	2.08			1.50	4.91
	M	4.67	6.75	3.00	4.50	4.50	23.42
	L		3.17	3.00	1.50		7.67
Total		6.00	12.00	6.00	6.00	6.00	36.00
17	E	1.50	1.42			1.50	4.42
	M	4.50	9.66	3.00	4.50	4.50	26.16
	L		0.92	3.00	1.50		5.42
Total		6.00	12.00	6.00	6.00	6.00	36.00
18	E		2.00		1.50		3.50
	M	4.00	7.75	3.00	4.50	4.50	23.75
	L	2.00	2.25		3.00	1.50	8.745
Total		6.00	12.00	3.00	9.00	6.00	36.00

Table 5b Summary of monthly GVP effort in the non-breeding season, with early, middle and late stratification in 2018/2019 (Data are hours of observation).

GVP	Daylight Period	2018			2019			Total
		Sep	Nov	Dec	Jan	Feb	Mar	
5	E	1.5		1.0		1.0		3.5
	M	4.5	5.0	5.75	5.0	5.0	3.5	28.5
	L		1.0	0.25	1.0		1.5	4.0
Total		6.0	6.0	7.0	6.0	6.0	5.0	36.0
8	E			1.0		1.0		2.0
	M	4.5	5.0	5.75	5.0	5.0	4.0	29.25
	L	1.5	1.0	0.25	1.0		1.0	4.75
Total		6.0	6.0	7.0	6.0	6.0	5.0	36.0
9	E			0.75	0.25	1.0		2.0
	M	4.5	6.0	4.09	4.75	5.0	4.5	28.84
	L	1.5		1.16	1.0		1.5	5.16
Total		6.0	6.0	6.0	6.0	6.0	6.0	36.0
15	E	1.5		1.0	1.0		1.5	5.0
	M	4.5	4.0	5.0	5.0	5.0	6.5	30.0
	L					1.0		1.0
Total		6.0	4.0	6.0	6.0	6.0	8.0	36.0
16*	E	1.5						1.5
	M	4.5						4.5
	L							
Total		6.0						6.0
17**	E	1.5						1.5
	M	4.5	3.0					7.5
	L		1.0					1.0
Total		6.0	4.0					10.0
18	E	1.5	0.92	0.5		1.0		3.92
	M	4.5	3.92	4.5	5.0	5.0	4.5	27.42
	L		1.16	1.0	1.0		1.5	4.66
Total		6.0	6.0	6.0	6.0	6.0	6.0	36.0
19*	E			1.0	1.0		1.5	3.5
	M		3.0	4.75	5.0	5.0	6.5	24.25
	L		1.0	0.25		1.0		2.25
Total			4.0	6.0	6.0	6.0	8.0	30.0
	E			0.42	1.0		1.5	2.92

GVP	Daylight Period	2018			2019			Total
		Sep	Nov	Dec	Jan	Feb	Mar	
20**	M			4.58	5.0	5.0	6.5	21.08
	L			1.0		1.0		2.0
Total				6.0	6.0	6.0	8.0	26.0

- 1.19. During each watch three hierarchical recording methods were used, as follows:
- Focal bird sampling – timed. The viewing arc was scanned constantly until a *Target A species*¹ was detected in flight. Once detected, the bird was followed until it ceased flying or was lost from view, with the duration of the flight recorded to the nearest second. The route followed by the bird was plotted in the field onto a 1:25,000 scale map, with the direction of flight indicated regardless of whether or not the bird was within the survey area. The bird’s flying elevation above the ground was estimated at the point of detection and at 15 second intervals thereafter, using a countdown timer with an audible alarm. Flying elevation was classified as less than 10 m, 10 m to 30 m, 30 m to 50 m, 50 m to 100 m, 100 m to 200 m and greater than 200 m. Where simultaneous flight activity by a number of birds was observed and it was not possible to plot individual flight lines, areas of flight activity were plotted on the field maps.
 - Focal bird sampling – untimed. The same scanning procedure as described above was used. However flights of *Target B species*² were not timed, instead the flight path was mapped and flying elevation was recorded at the start and when it changed during the recorded bout. Where a flock was observed a central flight line representative of the route was estimated.
 - Activity Summaries. At the end of each five minute period flight activity within the survey area by species of lesser conservation importance (*Target C species*)³ was summarised. The number of birds recorded in any one period was the minimum number of individuals that could account for the activity observed. The height, direction and number of individuals involved in notable bird movements (e.g. gull flights) were recorded.

Data were entered in the field onto recording sheets and later transferred to Microsoft Excel spreadsheets. Maps of flight activity by Target Species were compiled for each watch. Each flying bout was numbered and cross-referenced to the relevant flight path on the map.

Flight Activity – Migratory Period Watches

- 1.20. Additional watches to record migratory movements of swans, geese and waders at a landscape scale were completed during 2014. Two Migration Watch Points (MWPs) were identified which gave good broad spatial coverage of the site in respect of birds moving on a predominantly north-south axis. One was used for 36 hours between March and April 2014 (spring) and the other for 36 hours between September and November 2014 (autumn). A range of weather conditions were sampled. (Table 6, Figure 9.3).

¹ *Target A species* were drawn from those listed in Annex 1 of the Birds Directive and Schedule 1 of the WCA. See Annex 1.6 for a full list.

² *Target B species* were migratory birds of conservation importance, in this instance geese and certain waders. See Annex 1.6 for a full list.

³ See Annex 1.6

Table 6 Survey locations and effort for migration period watches

MWP	Grid Reference	Feb	Mar	Apr	Sep	Oct	Nov	Total
C	NX 20020 84503	3.0	18.0	15.0				36.0
D	NX 21918 80158				9.0	18.0	9.0	36.0

Scarce Breeding Birds

- 1.21. Priority was given to detecting the species considered most likely to breed in the area: hen harrier (*Circus cyaneus*), merlin (*Falco columbarius*), peregrine (*F. peregrinus*), goshawk (*Accipiter gentilis*) short-eared owl (*Asio flammeus*), barn owl (*Tyto alba*) and nightjar (*Caprimulgus europaeus*). To avoid disturbance the Dumfries & Galloway Raptor Study Group was consulted on any potential raptors breeding in the area.
- 1.22. In addition to the survey effort on GVP watches and the breeding birds of open ground, 64.25 hours were spent searching for evidence of scarce breeding birds (including nightjar and barn owl) (Table 7).
- 1.23. Surveys were undertaken within suitable habitat which was located within: the 2 km survey boundary for hen harrier, merlin, peregrine and short-eared owl; the 1 km survey boundary for goshawk and barn owl; and, the 500 m survey boundary for nightjar.

Hen harrier

- 1.24. Survey methods in Hardey *et al.* (2013) were followed, with emphasis given to any stands of tall heather.

Merlin

- 1.25. Survey methods in Hardey *et al.* (2013) were followed, with emphasis given to any stands of tall heather, boulders, hummocks, bushes and trees including old crows nests (which could be re-used by merlin) were checked for signs of occupation (e.g. plucked prey, moulted feathers, pellets and faeces).

Peregrine

- 1.26. Survey methods in Hardey *et al.* (2013) were followed. All potential nests sites were visited and checked for occupation. All crags and steep banks identified from OS maps and ground searches were checked. Surveyors looked for birds or signs of occupation (e.g. faecal splash, fresh plucks).

Goshawk

- 1.27. Survey methods in Hardey *et al.* (2013) were followed. Emphasis was given to stands of mature conifers, particularly stands of European larch (*Larix decidua*).

Short-eared owl

- 1.28. Survey methods in Hardey *et al.* (2013) were followed. Emphasis was given to stands of tall heather.

Barn owl

1.29. Suitable nest and roost locations were searched for signs of occupancy during 2014 and 2018.

Nightjar

1.30. One survey was carried out at dusk in both survey periods. Survey methods in Gilbert *et al.* (1998) were followed with emphasis given to open areas of young forestry.

Table 7 Details of survey effort and weather during searches for scarce breeding birds (2014, 2017, 2018 & March 2019)

Date	Obs	Start	Finish	Duration	Weather					
					Cloud 10ths	Cloud base (m)	Wind Direction	Wind Force	Precipitation*	Visibility (km)
14/04/2014	RAS	1000	1300	3.00	5	800	NW	4	nil	5
17/04/2014	RAS	1030	1330	3.00	10	600	W	5	ILR	4
18/04/2014	RAS	1200	1300	1.00	0	na	S	3	nil	5
25/04/2014	RAS	1030	1330	3.00	10	800	SE	3	nil	5
01/05/2014	RAS	1015	1315	3.00	10	800	E	4	nil	5
05/05/2014	RAS	0945	1245	3.00	10	600	S	5	nil	4
06/05/2014	RAS	0945	1100	1.25	5	800	S	4	nil	5
08/05/2014	RAS	1015	1315	3.00	10	600	SW	2	nil	5
22/05/2014	RAS	1630	1900	2.50	10	900	E	2	nil	5
03/06/2014	RAS	0945	1145	2.00	6	800	W	3	nil	5
09/06/2014	RAS	1300	1500	2.00	10	600	SE	3	ILR	4
10/06/2014	RAS	0930	1230	3.00	8	800	SE	4	nil	5
24/06/2014	RAS	1800	1900	1.00	7	800	NW	2	nil	5
17/07/2014	RAS	1000	1500	5.00	5	900	SW	3	nil	5
13/04/2017	RAS	1200	1500	3.00	7	700	W	4	nil	5
22/05/2017	RAS	1200	1400	2.00	7	800	SSE	5	nil	5
23/05/2017	RAS	1200	1400	2.00	9	900	WSW	3	nil	5
05/06/2017	RAS	2230	2400	1.50	10	500	N	0	CLR	5
26/06/2017	RAS	1445	1515	0.50	9	900	WNW	1	nil	5
24/07/2017	RAS	1535	1605	0.50	3	900	NW	5	nil	5
23/03/2018	RAS	0915	1515	6.00	8	500	W	5	ILR	5
02/05/2018	BJD	1010	1035	0.58	10	1500	N	3	nil	5
02/05/2018	BJD	1045	1055	0.17	10	1500	N	3	nil	5
02/05/2018	BJD	1100	1315	2.25	2	1500	N	2	nil	5
14/06/2018	NT	2330	0130	2.00	6	3000	SW	1	ILR	2

Date	Obs	Start	Finish	Duration	Weather					
					Cloud 10ths	Cloud base (m)	Wind Direction	Wind Force	Precipitation*	Visibility (km)
16/06/2018	NT	1015	1215	2.00	9	3000	SW	2	nil	2
16/06/2018	NT	1245	1445	2.00	8	3000	SW	2	IHR	2
12/07/2018	RAS	2030	2130	1.00	7	500	NW	3	nil	5
12/07/2018	RAS	2130	2300	1.50	7	500	NW	3	nil	1
13/07/2018	RAS	1600	1730	1.50	10	800	NW	1	nil	5
29/03/2019	RAS	1400	1600	2.00	10	800	SW	3	nil	5

* Precipitation codes: Continuous/Intermittent + Light/Heavy + Rain/Snow/Hail/Fog

Black Grouse

1.31. Methods followed those in Gilbert *et al.* (1998). Areas of suitable habitat within a 1.5 km survey boundary were visited to search for signs of occupation (droppings, feathers) and to locate and count any displaying (lekking) males. Spring visits were made within two hours of dawn from mid-April in dry, calm weather with good visibility. Surveyors listened and scanned carefully for lekking males. In total 22 hours were spent searching for black grouse (**Table 8**).

Table 8 Details of survey effort and weather during searches for black grouse (2014, 2017 and 2018)

Date	Obs	Start	Finish	Duration	Weather					
					Cloud 10ths	Cloud base (m)	Wind direction	Wind force	Precipitation*	Visibility (km)
14/04/2014	RAS	0630	0700	0.50	7	500	NW	3	nil	3
15/04/2014	RAS	0600	0700	1.00	1	900	SE	3	nil	5
18/04/2014	RAS	0530	0700	1.50	0	na	nil	0	nil	5
22/04/2014	RAS	0630	0700	0.50	8	800	SE	3	nil	4
02/05/2014	RAS	0500	0615	1.25	5	700	SE	2	nil	4
05/05/2014	RAS	0545	0615	0.50	10	400	S	3	nil	3
06/05/2014	RAS	0500	0615	1.25	6	700	S	3	nil	5
07/05/2014	RAS	0545	0615	0.50	10	500	SW	3	nil	4
18/04/2017	RAS	0630	0730	1.00	5	900	SE	1	nil	5
19/04/2017	RAS	0615	0700	0.75	10	400	SE	3	ILR	4
20/04/2017	RAS	0630	0700	0.50	10	400	W	3	ILF	3
21/04/2017	RAS	0630	0845	2.25	10	300	NW	4	CLR	3
09/05/2017	RAS	0530	0645	1.25	2	900	SE	1	nil	5
10/05/2017	RAS	0530	0615	0.75	0	na	W	1	nil	4
15/05/2017	RAS	0545	0615	0.50	10	500	S	3	ILR	3
28/04/2018	NT	0600	0700	1.00	1	3000	N	1	nil	2

Date	Obs	Start	Finish	Duration	Weather					
					Cloud 10ths	Cloud base (m)	Wind direction	Wind force	Precipitation*	Visibility (km)
29/04/2018	NT	0610	0710	1.00	3	3000	ESE	1	nil	2
30/04/2018	NT	0605	0705	1.00	0	na	N	1	nil	2
22/05/2018	NT	0515	0615	1.00	10	3000	nil	0	nil	10
24/05/2018	NT	0515	0615	1.00	0	na	SE	1	nil	10
25/05/2018	NT	0530	0830	3.00	2	3000	NE	1	nil	10

*Precipitation codes: Continuous/Intermittent + Light/Heavy + Rain/Snow/Hail/Fog

Breeding Birds of Open Ground

- 1.32. Surveys were completed using a four visit adapted Brown & Shepherd (1993) method for upland waders. These visits were completed between mid-April and July, in 2014 and 2017 within a 500 m survey boundary of the proposed turbines. Selected bird species were surveyed, namely those included on Annex 1 of the Birds Directive, Schedule 1 of the WCA, Red-listed BoCC and those listed on the UK and local BAPs together with selected other species (see Annex 1.7 for a full list).
- 1.33. Surveys were completed four times between April and July to allow for differences in detection rate between early and late breeding species. Fieldwork was not undertaken in conditions considered likely to affect bird detection, for example, strong winds (greater the Beaufort Force 5), persistent precipitation, poor visibility (less than 300 m) or in unusually hot or cold temperatures. Surveys were undertaken for a total of 41.5 hours. (Table 9).
- 1.34. The survey aimed to cover the ground systematically with a constant search effort. All points within the survey areas were approached closely typically to within 100 m. Patches of scrub, isolated trees, rocky outcrops and streams were investigated closely and surveyors paused at regular intervals to scan and listen for calling and singing birds. Careful attention was given to recording behaviour indicative of breeding with care taken to avoid counting the same individual more than once.
- 1.35. The location and activity of birds were mapped onto enlarged 1:25000 scale OS maps using standard BTO codes (Marchant 1983). The position of each bird was mapped at the point of first detection and flight lines recorded. At the end of each visit, a summary map was compiled showing the locations of each identified territory or breeding pair. The following evidence was considered diagnostic of breeding: song, courtship or territorial display; territorial dispute; nest building and hole excavation; agitated behaviour by adult bird(s) indicative of the presence of a nearby nest or young (e.g. repetitive alarm calling, distraction display); adult(s) carrying food; presence of newly fledged young; adult(s) removing faecal sac.
- 1.36. Where a number of breeding individuals were present and it was not possible to determine the exact number of breeding pairs, a method was devised to allow the number of discrete territories to be estimated. Registrations of individual birds were deemed to represent discrete breeding territories / pairs if the distance between them was more than 250 m (500 m for curlew, 200 m for small passerines). Whilst it is recognised that these distances are arbitrary and the territory size varies both inter- and intra- specifically, this approach produces a standardised index of abundance based on the distance that members of a

breeding pair are likely to move during the survey period. In cases where two individuals were considered to constitute a pair of birds, the location of the pair was placed centrally by convention.

- 1.37. Population estimates were derived by comparing the summary maps for the four survey visits. Again a method was devised whereby discrete territories could be estimated. Territories plotted during each visit were considered to be separate from one another if they were located more than 1000 m apart (500 m for snipe, common sandpiper and skylark, 300 m for other small passerines). These distances were chosen to reflect the distances birds could plausibly move between survey dates. The locations of territories mapped in more than one survey period were plotted centrally.

Table 9 Details of survey effort and weather during surveys for breeding birds of open ground (2014 & 2017)

Date	Obs	Start	Finish	Duration	Visit	Weather					
						Cloud 10ths	Cloud base (m)	Wind direction	Wind force	Precipitation*	Visibility (km)
15/04/2014	RAS	1000	1300	3.00	1	5	900	S	4	nil	5
18/04/2014	RAS	0830	1200	3.50	1	0	na	S	2	nil	5
22/04/2014	RAS	0830	1000	1.50	1	5	900	E	3	nil	5
02/05/2014	RAS	0745	1115	3.50	2	5	900	SE	3	nil	5
06/05/2014	RAS	0745	0945	2.00	2	5	800	S	3	nil	5
06/05/2014	RAS	1100	1200	1.00	2	5	800	S	4	nil	5
07/05/2014	RAS	0745	0915	1.50	2	10	700	SW	4	nil	5
04/06/2014	RAS	0730	1030	3.00	3	9	800	NW	3	nil	5
05/06/2014	RAS	0730	0900	1.50	3	10	600	NW	3	ILR	4
09/06/2014	RAS	0730	1030	3.00	3	6	700	SE	4	nil	5
02/07/2014	RAS	0800	1100	3.00	4	10	900	S	3	nil	4
03/07/2014	RAS	0800	1100	3.00	4	8	800	SW	3	nil	5
07/07/2014	RAS	0800	1000	2.00	4	5	800	SW	3	nil	5
18/04/2017	RAS	1030	1400	3.50	1	10	900	SE	3	nil	5
16/05/2017	RAS	1100	1400	3.00	2	9	200	SW	5	IHR	2
05/06/2017	RAS	2030	2200	1.50	3	10	500	SE	2	nil	4
03/07/2017	RAS	0800	1000	2.00	4	8	700	NW	4	nil	5

* Precipitation codes: Continuous/Intermittent + Light/Heavy + Rain/Snow/Hail/Fog

Autumn / Winter Walkover Surveys

- 1.38. Walkover surveys were undertaken between January and March 2014 and October and December 2014 (**Table 10**). Surveys were designed to record any important assemblages of migrant and wintering birds on the site and within a 500m survey boundary.
- 1.39. Survey routes meandered to encompass as much ground as practical, in particular features of potential ornithological interest such as streams, marshes and trees. Where practicable

surveyors used a different route to maximise the eventual spatial coverage of the site, and paused to scan for birds. Walkover surveys totalling 28 hours were undertaken and a range of weather conditions sampled, although wind speeds of over Beaufort Force 5 were avoided to improve aural detection of species (**Table 10**).

- 1.40. For Target A species the time each individual was first detected was recorded along with details of age, sex and behaviour (if possible). These details were cross-referenced to a map where the location and flight route (if applicable) were plotted. For all other species the number of individuals was recorded and locations where they were first detected plotted on the map.

Table 10 Details of survey effort and weather during winter walkovers in 2014.

Date	Obs	Start	Finish	Duration	Weather					
					Cloud 10ths	Cloud base (m)	Wind direction	Wind force	Precipitation*	Visibility (km)
09/01/2014	RAS	1015	1215	2.00	8	400	NW	3	nil	5
13/01/2014	RAS	1115	1315	2.00	9	600	S	3	IHR	5
10/02/2014	RAS	1100	1300	2.00	8	700	W	3	nil	5
07/02/2014	RAS	1200	1400	2.00	5	800	W	2	nil	5
11/03/2014	RAS	1015	1215	2.00	5	1000	SE	3	nil	5
13/03/2014	RAS	1200	1400	2.00	10	600	NW	2	nil	4
02/09/2014	RAS	1100	1300	2.00	10	800	E	1	nil	5
24/09/2014	RAS	1100	1300	2.00	5	900	NW	4	nil	5
10/10/2014	RAS	1115	1315	2.00	6	700	S	3	nil	5
16/10/2014	RAS	1200	1400	2.00	9	500	SE	3	ILR	3
18/11/2014	RAS	1030	1230	2.00	4	800	SE	3	nil	5
19/11/2014	RAS	1100	1300	2.00	9	700	SE	3	nil	5
02/12/2014	RAS	1100	1300	2.00	4	900	NW	3	nil	5
16/12/2014	RAS	1100	1300	2.00	8	700	nil	0	ILR	5

* Precipitation codes: Continuous/Intermittent + Light/Heavy + Rain/Snow/Hail/Eog

Hen harrier winter roost survey

- 1.41. Additional survey effort during the winter months in suitable habitat and over areas where historically hen harrier have roosted. Watches of approximately 2 hours were carried out during the period around dusk for birds arriving to roost and around dawn for birds leaving.
- 1.42. A total of 20.5 hours were completed in 2014 (January to March) and 2018/2019 (December to February) (**Table 11**).

Table 11 Survey effort searching for winter hen harrier roosts

Year	Period of Day	December	January	February	March	Total
2014	Dawn		2.00	1.00	1.50	4.50
	Dusk		2.00	1.00	1.00	4.00
2018/2019	Dawn	2.00	1.50	2.00		5.50
	Dusk	2.50	2.00	2.00		6.50

Field Survey Results

Wildfowl

Occurrence and Status

- 1.43. Whooper swan (*Cygnus cygnus*) greylag goose (*Anser anser*) and pink-footed goose (*A. brachyrhynchus*) were recorded (**Table 12**). Whooper swan is found on Annex 1 of the Birds Directive whilst greylag goose and pink-footed goose are regular winter migratory species and as such are afforded protection under the Birds Directive. The greylag geese that are resident in this area are likely to be from a feral population with wild birds passing through on migration.

Abundance and Distribution

- 1.44. During all surveys three flights by whooper swan involving 131 individuals (flocks of 28, 90 & 13 birds) were recorded. All three flights occurred in March (**Figure 9.4 & 9.5**).
- 1.45. Forty seven greylag goose flights were recorded during all surveys. The flocks ranged from 1 to 30 individuals and flights were observed in all months of the year except October and November. (**Figure 9.4 & 9.5**).
- 1.46. Two flights of pink-footed goose were recorded one individual and a flock of 26, both in April, and four flights by unidentified goose flocks were also recorded, totalling 325 individuals (flocks of 20, 25, 80 & 200) were recorded in January, March, April and December (**Figure 9.4 & 9.5**).

Flight Activity recorded during GVP & MWP watches within the FA 500 m buffer – September to April

- 1.47. One whooper swan flight within the 500m buffer used for collision modelling (FA) involved thirteen birds for 202 seconds. The total duration of whooper swan flight was thus 1414 seconds. None was within the potential risk height bands of the turbines (RHB⁴) (**Table 13, Figure 9.4**).

⁴ RHB is given by the lower and upper limits of the recorded flight height bands (i.e. 50 m to 200 m) which encompass the heights swept by the rotating turbine blades (i.e. 50 m to 200 m).

1.48. Two greylag goose flights involving three birds in total flew at least partially through the FA at the RHB of the turbines. One flock of 200 unidentified goose species flew over the FA at above RHB. (Table 13, Figure 9.4).

Table 12 The percentage of five-minute recording periods in which each species was encountered during watches from all GVPs in 2014, 2017, 2018 and 2019. Total number of 5 minute recording intervals was 6545.

Species	Total	%
Buzzard	655	4.170
Raven	518	3.297
Kestrel	124	0.789
Herring gull	109	0.694
Snipe	72	0.458
Sparrowhawk	62	0.395
Hen harrier	51	0.325
Greylag goose	42	0.267
Golden plover	42	0.242
Cuckoo	29	0.185
Starling	26	0.166
Goshawk	21	0.121
Curlew	18	0.115
Peregrine	14	0.089
Lapwing	12	0.070
Merlin	12	0.070
Chaffinch	12	0.070
Fieldfare	9	0.057
Jackdaw	8	0.051
Grey heron	8	0.051
Meadow pipit	6	0.038
Unidentified goose species	5	0.032
Mallard	5	0.032
Whooper swan	4	0.025
Cormorant	4	0.025
Common gull	4	0.025
Goldfinch	4	0.025
Lesser black-backed gull	3	0.019
Great grey shrike	3	0.019
Rook	2	0.013
Pink-footed goose	2	0.013

Species	Total	%
Swallow	2	0.013
Linnet	2	0.013
Great black-backed gull	2	0.013
Woodpigeon	1	0.006
Carrion crow	1	0.006
Mistle thrush	1	0.006
Goosander	1	0.006

Table 13 Flight activity and elevation by swan and goose species which occurred at least partly within the 500 m buffer of the proposed turbines (FA) recorded during GVP watches between in 2014, 2017, 2018 and 2019. Data are multiplied by the number of birds involved in each flight where necessary. Part, or all, of these flights at a height of 50 – 200 m agl places them at risk of a collision with the turbine blades (shaded columns).

Species	Period	GVP	Flight Id	No. birds	Total fly time (s)	height category (duration in seconds where recorded)					
						<10m	10-30m	30-50m	50-100m	100-200m	>200m
Goose sp.	Sep-Mar	1	AREE_140314_002_B002	200						*	
	Total			200						*	
Greylag goose	Apr-Aug	15	AREE_170404_004_B001	1		*	*	*			
			AREE_170510_001_B001	2		*	*				
	Total			3		*	*	*			
Whooper swan	Sep-Mar	19	AREE_190321_002_B001	13	1414			1414			
	Total			13	1414			1414			

Raptors and Owls

Occurrence and Status

1.49. Sightings of goshawk, hen harrier, merlin, peregrine and barn owl were recorded. All these species except goshawk are listed on Annex 1 of the Birds Directive and all are listed on Schedule 1 of the WCA. Hen harrier is a Red-listed Bird of Conservation Concern.

Abundance and distribution

1.50. Goshawk was recorded breeding within the survey buffers in 2017 and 2018 with at least one juvenile in the nest in July 2017 and two juveniles present at the nest in July 2018. The birds have been confirmed at this territory location in March 2019. The 2017 nest was approximately 86 m from the nearest proposed turbine location, whilst the 2018 nest was approximately 128 m away. (**Confidential Appendix Figure 1**)

- 1.51. In 2014 a number of suitable barn owl nest sites were found where birds were present although all of these were outside of the 1 km survey buffer for this species (**Confidential Appendix Figure 2**).
- 1.52. There was no evidence that any of the other species recorded had bred within the survey buffers.
- 1.53. Hen harrier was recorded during all months of the year except June and July. Thirty seven flights were seen from GVPs, however only one of these (during November) was within the FA, the majority were in the open ground away from the forest (**Figures 9.6 & 9.7**). Of these, 29 sightings were sexed, all as male and all but six of these as adult. A roost location used by one male was identified in 2014 and only seen in use in that year. This was 2.7 km from the nearest turbine location. No other roosts were found.
- 1.54. Merlin was seen in February, November and December. Six flights were seen from a GVP however none of these flights was within the FA (**Figure 9.6 & 9.7**).
- 1.55. Peregrine was seen during February, March, April, May, August, September, November and December. Twelve flights were recorded from GVPs and only one was within the FA. (**Figure 9.6 & 9.7**).
- 1.56. Goshawk was recorded in January, February, March, April, May, June, July, September and November. Sixteen flights were seen from GVPs, with seven over the FA. Male and female plus immature birds were seen. (**Figure 9.6 & 9.7**).

Flight Activity from GVPs – Breeding Season (April to August)

Peregrine

- 1.57. During flight activity surveys one flight by peregrine was recorded within the FA for a total duration of 362 seconds (6.03 minutes), all of which was within the height bands encompassing the RHB of the proposed turbines (**Table 14, Figure 9.6**).

Goshawk

- 1.58. During flight activity surveys two flights by goshawk were recorded within the FA for a total duration of 237 seconds (3.95 minutes), of which 139 seconds (2.32 minutes) (59 %) was within the height bands encompassing the RHB of the proposed turbines (**Table 14, Figure 9.6**).

Flight Activity from GVPs – Non-Breeding Season (September to March)

Hen harrier

- 1.59. During flight activity surveys one flight by hen harrier was recorded within the FA for a total duration of 190 seconds (3.16 minutes), all of which was below the lowest height band encompassing the RHB of the proposed turbines (**Table 14, Figure 9.6**).

Goshawk

- 1.60. During flight activity surveys five flights by goshawk were recorded within the FA for a total duration of 271 seconds (4.52 minutes), none was within the height bands encompassing the RHB of the proposed turbines (**Table 14, Figure 9.6**).

Table 14 Flight activity and elevation by raptor species which occurred at least partly within the 500 m buffer of the proposed turbines (FA) recorded during GVP watches in 2014, 2017, 2018 and 2019. Data are multiplied by the number of birds involved in each flight where necessary. Part, or all, of these flights at a height of 50 – 200 m agl places them at risk of a collision with the turbine blades (shaded columns).

Species	Period	GVP	Flight ID	No. birds	Total fly time (s)	Time in height category (s)					
						<10 m	10-30 m	30-50 m	50-100 m	100-200 m	>200 m
Goshawk	Apr-Aug	15	AREE_170621_003_B001	1	50	33	17				
		16	AREE_170620_004_B001	1	187			47	139		
	Total			2	237	33	17	47	139		
	Sep-Mar	1	AREE_140314_002_B001	1	53		53				
		15	AREE_190219_001_B001	1	93	31	62				
		19	AREE_190121_001_B001	1	47		47				
			AREE_190121_001_B002	1	16	16					
	20	AREE_190219_003_B002	1	62	31	31					
	Total			5	271	78	193				
	Hen harrier	Sep-Mar	19	AREE_181129_003_B001	1	190		190			
Total			1	190		190					
Peregrine	Apr-Aug	15	AREE_170808_002_B001	1	362					362	
	Total			1	362					362	

Black grouse

Occurrence and Status

1.61. This species was not recorded during any surveys.

Nightjar

Occurrence and Status

1.62. This species was not recorded during any surveys.

Waders

Occurrence and Status

1.63. Sightings of curlew (*Numenius arquata*), golden plover (*Pluvialis apricaria*), lapwing (*Vanellus vanellus*), snipe (*Gallinago gallinago*) and woodcock (*Scolopax rusticola*) were recorded. Golden plover is listed on Annex 1 of the Birds Directive and lapwing, woodcock and curlew are both Red-listed Birds of Conservation Concern. Curlew is also listed on IUCN 'Red list – 'Near Threatened' (IUCN 2017).

Abundance and Distribution

1.64. No territories were recorded of any wader species within the 500 m buffer of the turbines.

1.65. Curlew was recorded during March, April, May, June, July, August and October. Seventeen flights involving 24 individuals were recorded from GVPs and MWP. Of these, only two flights were over the FA (**Figures 9.8 & 9.9**).

1.66. Golden plover was recorded during January, April, August, September, October and December. Twenty eight flights involving a total of 736 birds (flock sizes ranged from one to 220) were recorded from GVPs and MWP. Of these four flights were within the FA (**Figures 9.8 & 9.9**).

1.67. One snipe was recorded during February, and one woodcock was recorded during March.

Flight Activity from GVPs and MWP – Breeding Season (April to August)

1.68. Two curlew flights involving three birds in total flew at least partially through the FA at the RHB of the turbines. One golden plover flock of twelve birds flew through the FA below the RHB. (**Table 15, Figure 9.8**).

Flight Activity from GVPs and MWP – Non-breeding season (September to March)

1.69. Three golden plover flights involving 53 birds (flocks of 16, 17 & 20 individuals) passed at least partially through the FA, two of these (36 birds) at the RHB of the turbines (**Table 15, Figure 9.8**).

Table 15 Flight activity and elevation by wader species which occurred at least partly within the 500 m buffer of the proposed turbines (FA) recorded during GVP watches in 2014, 2017, 2018 and 2019. Part, or all, of these flights at a height of 50 – 200 m agl places them at risk of a collision with the turbine blades (shaded columns).

Species	Period	GVP	Flight ID	No. birds	Flight height category					
					<10 m	10-30 m	30-50 m	50-100 m	100-200 m	>200 m
Curlew	Apr-Aug	10	AREE_140815_001_B001	1					*	
		17	AREE_170605_001_B001	2		*	*	*		
	Total			3		*	*	*	*	
Golden plover	Apr-Aug	9	AREE_180802_001_B002	12			*			
		Total			12			*		
	Sep-Mar	4	AREE_140221_002_B001	17			*			
		6	AREE_140923_001_B005	16	*	*	*	*	*	*
		9	AREE_140129_002_B001	20					*	
Total			53	*	*	*	*	*	*	

Other Species of Interest

1.70. A great grey shrike (*Lanius excubitor*) was recorded three times between January and March 2019. Buzzard (*Buteo buteo*) raven (*Corvus corax*), kestrel (*F. tinnunculus*) and herring gull (*Larus argentatus*) were the species recorded most often during the GVP watches (**Table 12**).

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Annexes

Annex 1.1 Recording Periods used in Diurnal Stratification of Watches

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Early GVPs finish by / Middle GVPs begin from	0930	0900	0830*	0830	0745	0730	0800	0830	0900	0930**	0900	0930
Middle GVPs finish by / Late GVPs begin from	1500	1600	1630*	1800	1900	1900	1900	1830	1730	1630**	1500	1430
	GMT	GMT	GMT	BST	BST	BST	BST	BST	BST	BST	GMT	GMT

*This time is GMT, when the clocks changed time was kept in line with this, within the month.

** This time is BST, when the clocks changed time was kept in line with this, within the month.

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Annex 1.2 Generic Vantage Point Survey Information

***Watch ID relates to Appendix 1.3 Weather Details**

Date	Obs	GVP	Start	End	Duration	Watch ID*
07/01/2014	RAS	1	1330	1500	1.50	AREE_140107_001
07/01/2014	RAS	1	1500	1600	1.00	AREE_140107_002
13/01/2014	RAS	1	0830	0930	1.00	AREE_140113_001
13/01/2014	RAS	1	0930	1100	1.50	AREE_140113_002
14/01/2014	RAS	6	1230	1400	1.50	AREE_140114_001
14/01/2014	RAS	6	1500	1600	1.00	AREE_140114_002
14/01/2014	RAS	7	0830	0930	1.00	AREE_140114_003
14/01/2014	RAS	7	0930	1100	1.50	AREE_140114_004
16/01/2014	RAS	8	0830	0930	1.00	AREE_140116_001
16/01/2014	RAS	8	0930	1100	1.50	AREE_140116_002
16/01/2014	RAS	9	1330	1500	1.50	AREE_140116_003
16/01/2014	RAS	9	1500	1600	1.00	AREE_140116_004
17/01/2014	RAS	5	0830	0930	1.00	AREE_140117_001
17/01/2014	RAS	5	0930	1100	1.50	AREE_140117_002
17/01/2014	RAS	8	1300	1430	1.50	AREE_140117_003
17/01/2014	RAS	8	1500	1600	1.00	AREE_140117_004
22/01/2014	RAS	5	1330	1500	1.50	AREE_140122_001
22/01/2014	RAS	5	1500	1600	1.00	AREE_140122_002
22/01/2014	RAS	10	0830	0930	1.00	AREE_140122_003
22/01/2014	RAS	10	1030	1200	1.50	AREE_140122_004
28/01/2014	RAS	6	0830	0930	1.00	AREE_140128_001
28/01/2014	RAS	6	1000	1130	1.50	AREE_140128_002
28/01/2014	RAS	7	1330	1500	1.50	AREE_140128_003
28/01/2014	RAS	7	1500	1600	1.00	AREE_140128_004
29/01/2014	RAS	9	0830	0930	1.00	AREE_140129_001
29/01/2014	RAS	9	0930	1100	1.50	AREE_140129_002
29/01/2014	RAS	10	1330	1500	1.50	AREE_140129_003

Date	Obs	GVP	Start	End	Duration	Watch ID*
29/01/2014	RAS	10	1500	1600	1.00	AREE_140129_004
04/02/2014	RAS	8	0800	0900	1.00	AREE_140204_001
04/02/2014	RAS	8	0930	1130	2.00	AREE_140204_002
04/02/2014	RAS	9	1330	1500	1.50	AREE_140204_003
04/02/2014	RAS	9	1600	1700	1.00	AREE_140204_004
06/02/2014	RAS	1	0800	0900	1.00	AREE_140206_001
06/02/2014	RAS	1	0900	1100	2.00	AREE_140206_002
07/02/2014	RAS	8	1430	1600	1.50	AREE_140207_001
07/02/2014	RAS	8	1600	1700	1.00	AREE_140207_002
07/02/2014	RAS	10	0800	0900	1.00	AREE_140207_003
07/02/2014	RAS	10	0900	1100	2.00	AREE_140207_004
10/02/2014	RAS	6	1430	1600	1.50	AREE_140210_001
10/02/2014	RAS	6	1600	1700	1.00	AREE_140210_002
10/02/2014	RAS	7	0800	0900	1.00	AREE_140210_003
10/02/2014	RAS	7	0900	1100	2.00	AREE_140210_004
11/02/2014	RAS	5	0800	0900	1.00	AREE_140211_001
11/02/2014	RAS	5	1000	1200	2.00	AREE_140211_002
13/02/2014	RAS	9	0800	0900	1.00	AREE_140213_001
13/02/2014	RAS	9	0900	1100	2.00	AREE_140213_002
13/02/2014	RAS	10	1300	1430	1.50	AREE_140213_003
13/02/2014	RAS	10	1600	1700	1.00	AREE_140213_004
21/02/2014	RAS	5	1330	1500	1.50	AREE_140221_001
21/02/2014	RAS	5	1600	1700	1.00	AREE_140221_002
24/02/2014	RAS	6	0800	0900	1.00	AREE_140224_001
24/02/2014	RAS	6	1000	1200	2.00	AREE_140224_002
24/02/2014	RAS	7	1400	1530	1.50	AREE_140224_003
24/02/2014	RAS	7	1600	1700	1.00	AREE_140224_004

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Date	Obs	GVP	Start	End	Duration	Watch ID*
25/02/2014	RAS	1	1430	1600	1.50	AREE_140225_001
25/02/2014	RAS	1	1600	1700	1.00	AREE_140225_002
03/03/2014	RAS	8	0700	0830	1.50	AREE_140303_001
03/03/2014	RAS	8	1200	1400	2.00	AREE_140303_002
03/03/2014	RAS	9	1430	1630	2.00	AREE_140303_003
03/03/2014	RAS	9	1630	1800	1.50	AREE_140303_004
07/03/2014	RAS	5	0700	0830	1.50	AREE_140307_001
07/03/2014	RAS	5	0830	1030	2.00	AREE_140307_002
10/03/2014	RAS	8	1100	1300	2.00	AREE_140310_001
10/03/2014	RAS	8	1630	1800	1.50	AREE_140310_002
10/03/2014	RAS	10	0700	0830	1.50	AREE_140310_003
10/03/2014	RAS	10	0830	1030	2.00	AREE_140310_004
11/03/2014	RAS	10	1330	1530	2.00	AREE_140311_001
11/03/2014	RAS	10	1630	1800	1.50	AREE_140311_002
13/03/2014	RAS	6	0700	0830	1.50	AREE_140313_001
13/03/2014	RAS	6	1000	1200	2.00	AREE_140313_002
13/03/2014	RAS	7	1430	1630	2.00	AREE_140313_003
13/03/2014	RAS	7	1630	1800	1.50	AREE_140313_004
14/03/2014	RAS	1	0700	0830	1.50	AREE_140314_001
14/03/2014	RAS	1	1000	1200	2.00	AREE_140314_002
21/03/2014	RAS	5	1415	1615	2.00	AREE_140321_001
21/03/2014	RAS	5	1630	1800	1.50	AREE_140321_002
24/03/2014	RAS	9	0700	0830	1.50	AREE_140324_001
24/03/2014	RAS	9	0845	1045	2.00	AREE_140324_002
27/03/2014	RAS	1	1430	1630	2.00	AREE_140327_001
27/03/2014	RAS	1	1630	1800	1.50	AREE_140327_002
31/03/2014	RAS	6	1400	1600	2.00	AREE_140331_001
31/03/2014	RAS	6	1730	1900	1.50	AREE_140331_002
31/03/2014	RAS	7	0800	0930	1.50	AREE_140331_003
31/03/2014	RAS	7	1030	1230	2.00	AREE_140331_004

Date	Obs	GVP	Start	End	Duration	Watch ID*
01/04/2014	RAS	10	1430	1730	3.00	AREE_140401_001
01/04/2014	RAS	10	1800	1930	1.50	AREE_140401_002
03/04/2014	RAS	9	1430	1730	3.00	AREE_140403_001
03/04/2014	RAS	9	1800	1930	1.50	AREE_140403_002
04/04/2014	RAS	8	1430	1730	3.00	AREE_140404_001
04/04/2014	RAS	8	1800	1930	1.50	AREE_140404_002
07/04/2014	RAS	1	1430	1730	3.00	AREE_140407_001
07/04/2014	RAS	1	1800	1930	1.50	AREE_140407_002
08/04/2014	RAS	5	1430	1730	3.00	AREE_140408_001
08/04/2014	RAS	5	1800	1930	1.50	AREE_140408_002
10/04/2014	RAS	7	1430	1730	3.00	AREE_140410_001
10/04/2014	RAS	7	1800	1930	1.50	AREE_140410_002
11/04/2014	RAS	6	1430	1730	3.00	AREE_140411_001
11/04/2014	RAS	6	1800	1930	1.50	AREE_140411_002
14/04/2014	RAS	1	0700	0830	1.50	AREE_140414_001
14/04/2014	RAS	1	0830	1000	1.50	AREE_140414_002
15/04/2014	RAS	9	0700	0830	1.50	AREE_140415_001
15/04/2014	RAS	9	0830	1000	1.50	AREE_140415_002
17/04/2014	RAS	7	0700	0830	1.50	AREE_140417_001
17/04/2014	RAS	7	0830	1000	1.50	AREE_140417_002
18/04/2014	RAS	6	0700	0830	1.50	AREE_140418_001
18/04/2014	RAS	6	1300	1430	1.50	AREE_140418_002
21/04/2014	RAS	10	0700	0830	1.50	AREE_140421_001
21/04/2014	RAS	10	0830	1000	1.50	AREE_140421_002
22/04/2014	RAS	8	0700	0830	1.50	AREE_140422_001
22/04/2014	RAS	8	1000	1130	1.50	AREE_140422_002
25/04/2014	RAS	5	0700	0830	1.50	AREE_140425_001
25/04/2014	RAS	5	0830	1000	1.50	AREE_140425_002
01/05/2014	RAS	7	0615	0745	1.50	AREE_140501_001
01/05/2014	RAS	7	0800	1000	2.00	AREE_140501_002

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Date	Obs	GVP	Start	End	Duration	Watch ID*
02/05/2014	RAS	9	0615	0745	1.50	AREE_140502_001
02/05/2014	RAS	9	1115	1315	2.00	AREE_140502_002
05/05/2014	RAS	1	0615	0745	1.50	AREE_140505_001
05/05/2014	RAS	1	0745	0945	2.00	AREE_140505_002
06/05/2014	RAS	5	0615	0745	1.50	AREE_140506_001
06/05/2014	RAS	5	1200	1400	2.00	AREE_140506_002
07/05/2014	RAS	8	0615	0745	1.50	AREE_140507_001
07/05/2014	RAS	8	0915	1115	2.00	AREE_140507_002
08/05/2014	RAS	10	0615	0745	1.50	AREE_140508_001
08/05/2014	RAS	10	0745	0945	2.00	AREE_140508_002
09/05/2014	RAS	6	0615	0745	1.50	AREE_140509_001
09/05/2014	RAS	6	0745	0945	2.00	AREE_140509_002
14/05/2014	RAS	9	1530	1830	3.00	AREE_140514_001
14/05/2014	RAS	9	1900	2030	1.50	AREE_140514_002
15/05/2014	RAS	8	1530	1830	3.00	AREE_140515_001
15/05/2014	RAS	8	1900	2030	1.50	AREE_140515_002
16/05/2014	RAS	6	1530	1830	3.00	AREE_140516_001
16/05/2014	RAS	6	1900	2030	1.50	AREE_140516_002
19/05/2014	RAS	7	1530	1830	3.00	AREE_140519_001
19/05/2014	RAS	7	1900	2030	1.50	AREE_140519_002
20/05/2014	RAS	10	1530	1830	3.00	AREE_140520_001
20/05/2014	RAS	10	1900	2030	1.50	AREE_140520_002
21/05/2014	RAS	5	1530	1830	3.00	AREE_140521_001
21/05/2014	RAS	5	1900	2030	1.50	AREE_140521_002
22/05/2014	RAS	1	1330	1630	3.00	AREE_140522_001
22/05/2014	RAS	1	1900	2030	1.50	AREE_140522_002
03/06/2014	RAS	10	0600	0730	1.50	AREE_140603_001
03/06/2014	RAS	10	0730	0930	2.00	AREE_140603_002
04/06/2014	RAS	5	0600	0730	1.50	AREE_140604_001
04/06/2014	RAS	5	1030	1230	2.00	AREE_140604_002

Date	Obs	GVP	Start	End	Duration	Watch ID*
05/06/2014	RAS	8	0600	0730	1.50	AREE_140605_001
05/06/2014	RAS	8	0900	1100	2.00	AREE_140605_002
09/06/2014	RAS	9	0600	0730	1.50	AREE_140609_001
09/06/2014	RAS	9	1030	1230	2.00	AREE_140609_002
10/06/2014	RAS	1	0600	0730	1.50	AREE_140610_001
10/06/2014	RAS	1	0730	0930	2.00	AREE_140610_002
11/06/2014	RAS	7	0600	0730	1.50	AREE_140611_001
11/06/2014	RAS	7	0730	0930	2.00	AREE_140611_002
13/06/2014	RAS	6	0600	0730	1.50	AREE_140613_001
13/06/2014	RAS	6	0730	0930	2.00	AREE_140613_002
16/06/2014	RAS	8	1530	1830	3.00	AREE_140616_001
16/06/2014	RAS	8	1900	2030	1.50	AREE_140616_002
21/06/2014	RAS	5	1530	1830	3.00	AREE_140621_001
21/06/2014	RAS	5	1900	2030	1.50	AREE_140621_002
23/06/2014	RAS	9	1530	1830	3.00	AREE_140623_001
23/06/2014	RAS	9	1900	2030	1.50	AREE_140623_002
24/06/2014	RAS	1	1500	1800	3.00	AREE_140624_001
24/06/2014	RAS	1	1900	2030	1.50	AREE_140624_002
26/06/2014	RAS	10	1530	1830	3.00	AREE_140626_001
26/06/2014	RAS	10	1900	2030	1.50	AREE_140626_002
27/06/2014	RAS	6	1530	1830	3.00	AREE_140627_001
27/06/2014	RAS	6	1900	2030	1.50	AREE_140627_002
30/06/2014	RAS	7	1530	1830	3.00	AREE_140630_001
30/06/2014	RAS	7	1900	2030	1.50	AREE_140630_002
02/07/2014	RAS	5	0630	0800	1.50	AREE_140702_001
02/07/2014	RAS	5	1100	1300	2.00	AREE_140702_002
03/07/2014	RAS	9	0630	0800	1.50	AREE_140703_001
03/07/2014	RAS	9	1100	1300	2.00	AREE_140703_002
04/07/2014	RAS	7	0630	0800	1.50	AREE_140704_001
04/07/2014	RAS	7	0800	1000	2.00	AREE_140704_002

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Date	Obs	GVP	Start	End	Duration	Watch ID*
07/07/2014	RAS	8	0630	0800	1.50	AREE_140707_001
07/07/2014	RAS	8	1000	1200	2.00	AREE_140707_002
08/07/2014	RAS	6	0630	0800	1.50	AREE_140708_001
08/07/2014	RAS	6	0800	1000	2.00	AREE_140708_002
10/07/2014	RAS	10	1530	1830	3.00	AREE_140710_001
10/07/2014	RAS	10	1900	2030	1.50	AREE_140710_002
11/07/2014	RAS	1	1530	1830	3.00	AREE_140711_001
11/07/2014	RAS	1	1900	2030	1.50	AREE_140711_002
17/07/2014	RAS	10	0630	0800	1.50	AREE_140717_001
17/07/2014	RAS	10	0800	1000	2.00	AREE_140717_002
21/07/2014	RAS	1	0630	0800	1.50	AREE_140721_001
21/07/2014	RAS	1	0800	1000	2.00	AREE_140721_002
22/07/2014	RAS	5	1530	1830	3.00	AREE_140722_001
22/07/2014	RAS	5	1900	2030	1.50	AREE_140722_002
23/07/2014	RAS	8	1530	1830	3.00	AREE_140723_001
23/07/2014	RAS	8	1900	2030	1.50	AREE_140723_002
24/07/2014	RAS	9	1530	1830	3.00	AREE_140724_001
24/07/2014	RAS	9	1900	2030	1.50	AREE_140724_002
25/07/2014	RAS	7	1530	1830	3.00	AREE_140725_001
25/07/2014	RAS	7	1900	2030	1.50	AREE_140725_002
29/07/2014	RAS	6	1530	1830	3.00	AREE_140729_001
29/07/2014	RAS	6	1900	2030	1.50	AREE_140729_002
11/08/2014	RAS	5	1530	1800	2.50	AREE_140811_001
11/08/2014	RAS	5	1830	2000	1.50	AREE_140811_002
12/08/2014	RAS	7	1530	1800	2.50	AREE_140812_001
12/08/2014	RAS	7	1830	2000	1.50	AREE_140812_002
13/08/2014	RAS	8	0700	0830	1.50	AREE_140813_001
13/08/2014	RAS	8	0830	1030	2.00	AREE_140813_002
14/08/2014	RAS	1	0700	0830	1.50	AREE_140814_001
14/08/2014	RAS	1	0830	1030	2.00	AREE_140814_002

Date	Obs	GVP	Start	End	Duration	Watch ID*
15/08/2014	RAS	10	0700	0830	1.50	AREE_140815_001
15/08/2014	RAS	10	0830	1030	2.00	AREE_140815_002
18/08/2014	RAS	10	1530	1800	2.50	AREE_140818_001
18/08/2014	RAS	10	1830	2000	1.50	AREE_140818_002
19/08/2014	RAS	1	1530	1800	2.50	AREE_140819_001
19/08/2014	RAS	1	1830	2000	1.50	AREE_140819_002
20/08/2014	RAS	9	1530	1800	2.50	AREE_140820_001
20/08/2014	RAS	9	1830	2000	1.50	AREE_140820_002
22/08/2014	RAS	6	0700	0830	1.50	AREE_140822_001
22/08/2014	RAS	6	0830	1030	2.00	AREE_140822_002
22/08/2014	RAS	8	1530	1800	2.50	AREE_140822_003
22/08/2014	RAS	8	1830	2000	1.50	AREE_140822_004
25/08/2014	RAS	6	1530	1800	2.50	AREE_140825_001
25/08/2014	RAS	6	1830	2000	1.50	AREE_140825_002
27/08/2014	RAS	7	0700	0830	1.50	AREE_140827_001
27/08/2014	RAS	7	0830	1030	2.00	AREE_140827_002
28/08/2014	RAS	9	0700	0830	1.50	AREE_140828_001
28/08/2014	RAS	9	0830	1030	2.00	AREE_140828_002
29/08/2014	RAS	5	0700	0830	1.50	AREE_140829_001
29/08/2014	RAS	5	0830	1030	2.00	AREE_140829_002
01/09/2014	RAS	8	1430	1700	2.50	AREE_140901_001
01/09/2014	RAS	8	1730	1900	1.50	AREE_140901_002
01/09/2014	RAS	9	0730	0900	1.50	AREE_140901_003
01/09/2014	RAS	9	0900	1100	2.00	AREE_140901_004
02/09/2014	RAS	5	1430	1700	2.50	AREE_140902_001
02/09/2014	RAS	5	1730	1900	1.50	AREE_140902_002
02/09/2014	RAS	6	0730	0900	1.50	AREE_140902_003
02/09/2014	RAS	6	0900	1100	2.00	AREE_140902_004
04/09/2014	RAS	7	0730	0900	1.50	AREE_140904_001
04/09/2014	RAS	7	0900	1100	2.00	AREE_140904_002

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Date	Obs	GVP	Start	End	Duration	Watch ID*
05/09/2014	RAS	1	0730	0900	1.50	AREE_140905_001
05/09/2014	RAS	1	0900	1100	2.00	AREE_140905_002
05/09/2014	RAS	10	1430	1700	2.50	AREE_140905_003
05/09/2014	RAS	10	1730	1900	1.50	AREE_140905_004
08/09/2014	RAS	1	1430	1700	2.50	AREE_140908_001
08/09/2014	RAS	1	1730	1900	1.50	AREE_140908_002
08/09/2014	RAS	10	0730	0900	1.50	AREE_140908_003
08/09/2014	RAS	10	0900	1100	2.00	AREE_140908_004
09/09/2014	RAS	8	0730	0900	1.50	AREE_140909_001
09/09/2014	RAS	8	0900	1100	2.00	AREE_140909_002
09/09/2014	RAS	9	1430	1700	2.50	AREE_140909_003
09/09/2014	RAS	9	1730	1900	1.50	AREE_140909_004
23/09/2014	RAS	6	1430	1700	2.50	AREE_140923_001
23/09/2014	RAS	6	1730	1900	1.50	AREE_140923_002
25/09/2014	RAS	5	0730	0900	1.50	AREE_140925_001
25/09/2014	RAS	5	0900	1100	2.00	AREE_140925_002
25/09/2014	RAS	7	1430	1700	2.50	AREE_140925_003
25/09/2014	RAS	7	1730	1900	1.50	AREE_140925_004
01/10/2014	RAS	8	1430	1630	2.00	AREE_141001_001
01/10/2014	RAS	8	1630	1730	1.00	AREE_141001_002
06/10/2014	RAS	8	0830	0930	1.00	AREE_141006_001
06/10/2014	RAS	8	0930	1100	1.50	AREE_141006_002
08/10/2014	RAS	5	0830	0930	1.00	AREE_141008_001
08/10/2014	RAS	5	1200	1330	1.50	AREE_141008_002
08/10/2014	RAS	9	1430	1630	2.00	AREE_141008_003
08/10/2014	RAS	9	1630	1730	1.00	AREE_141008_004
09/10/2014	RAS	6	1430	1630	2.00	AREE_141009_001
09/10/2014	RAS	6	1630	1730	1.00	AREE_141009_002
09/10/2014	RAS	7	0830	0930	1.00	AREE_141009_003
09/10/2014	RAS	7	0930	1100	1.50	AREE_141009_004

Date	Obs	GVP	Start	End	Duration	Watch ID*
10/10/2014	RAS	1	0830	0930	1.00	AREE_141010_001
10/10/2014	RAS	1	0930	1100	1.50	AREE_141010_002
10/10/2014	RAS	10	1430	1630	2.00	AREE_141010_003
10/10/2014	RAS	10	1630	1730	1.00	AREE_141010_004
13/10/2014	RAS	1	1430	1630	2.00	AREE_141013_001
13/10/2014	RAS	1	1630	1730	1.00	AREE_141013_002
13/10/2014	RAS	10	0830	0930	1.00	AREE_141013_003
13/10/2014	RAS	10	0930	1100	1.50	AREE_141013_004
16/10/2014	RAS	5	1430	1630	2.00	AREE_141016_001
16/10/2014	RAS	5	1630	1730	1.00	AREE_141016_002
16/10/2014	RAS	9	0830	0930	1.00	AREE_141016_003
16/10/2014	RAS	9	0930	1100	1.50	AREE_141016_004
20/10/2014	RAS	6	0830	0930	1.00	AREE_141020_001
20/10/2014	RAS	6	0930	1100	1.50	AREE_141020_002
20/10/2014	RAS	7	1430	1630	2.00	AREE_141020_003
20/10/2014	RAS	7	1630	1730	1.00	AREE_141020_004
04/11/2014	RAS	5	1330	1500	1.50	AREE_141104_001
04/11/2014	RAS	5	1500	1600	1.00	AREE_141104_002
04/11/2014	RAS	7	0800	0900	1.00	AREE_141104_003
04/11/2014	RAS	7	0900	1030	1.50	AREE_141104_004
17/11/2014	RAS	8	1330	1500	1.50	AREE_141117_001
17/11/2014	RAS	8	1500	1600	1.00	AREE_141117_002
18/11/2014	RAS	6	1330	1500	1.50	AREE_141118_001
18/11/2014	RAS	6	1500	1600	1.00	AREE_141118_002
18/11/2014	RAS	9	0800	0900	1.00	AREE_141118_003
18/11/2014	RAS	9	0900	1030	1.50	AREE_141118_004
19/11/2014	RAS	5	0800	0900	1.00	AREE_141119_001
19/11/2014	RAS	5	0900	1030	1.50	AREE_141119_002
19/11/2014	RAS	7	1330	1500	1.50	AREE_141119_003
19/11/2014	RAS	7	1500	1600	1.00	AREE_141119_004

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Date	Obs	GVP	Start	End	Duration	Watch ID*
20/11/2014	RAS	8	0800	0900	1.00	AREE_141120_001
20/11/2014	RAS	8	0900	1030	1.50	AREE_141120_002
21/11/2014	RAS	1	0800	0900	1.00	AREE_141121_001
21/11/2014	RAS	1	0900	1030	1.50	AREE_141121_002
21/11/2014	RAS	10	1330	1500	1.50	AREE_141121_003
21/11/2014	RAS	10	1500	1600	1.00	AREE_141121_004
24/11/2014	RAS	1	1230	1400	1.50	AREE_141124_001
24/11/2014	RAS	1	1500	1600	1.00	AREE_141124_002
24/11/2014	RAS	10	0800	0900	1.00	AREE_141124_003
24/11/2014	RAS	10	1000	1130	1.50	AREE_141124_004
25/11/2014	RAS	6	0800	0900	1.00	AREE_141125_001
25/11/2014	RAS	6	0900	1030	1.50	AREE_141125_002
25/11/2014	RAS	9	1330	1500	1.50	AREE_141125_003
25/11/2014	RAS	9	1500	1600	1.00	AREE_141125_004
01/12/2014	RAS	5	1315	1430	1.25	AREE_141201_001
01/12/2014	RAS	5	1430	1530	1.00	AREE_141201_002
01/12/2014	RAS	7	0830	0930	1.00	AREE_141201_003
01/12/2014	RAS	7	1030	1145	1.25	AREE_141201_004
02/12/2014	RAS	1	1315	1430	1.25	AREE_141202_001
02/12/2014	RAS	1	1430	1530	1.00	AREE_141202_002
02/12/2014	RAS	10	0830	0930	1.00	AREE_141202_003
02/12/2014	RAS	10	0930	1045	1.25	AREE_141202_004
03/12/2014	RAS	8	1315	1430	1.25	AREE_141203_001
03/12/2014	RAS	8	1430	1530	1.00	AREE_141203_002
04/12/2014	RAS	6	1215	1330	1.25	AREE_141204_001
04/12/2014	RAS	6	1430	1530	1.00	AREE_141204_002
04/12/2014	RAS	9	0830	0930	1.00	AREE_141204_003
04/12/2014	RAS	9	1030	1145	1.25	AREE_141204_004
05/12/2014	RAS	5	0830	0930	1.00	AREE_141205_001
05/12/2014	RAS	5	1045	1200	1.25	AREE_141205_002

Date	Obs	GVP	Start	End	Duration	Watch ID*
05/12/2014	RAS	7	1300	1415	1.25	AREE_141205_003
05/12/2014	RAS	7	1430	1530	1.00	AREE_141205_004
15/12/2014	RAS	6	0830	0930	1.00	AREE_141215_001
15/12/2014	RAS	6	0930	1045	1.25	AREE_141215_002
15/12/2014	RAS	9	1245	1400	1.25	AREE_141215_003
15/12/2014	RAS	9	1430	1530	1.00	AREE_141215_004
16/12/2014	RAS	1	0830	0930	1.00	AREE_141216_001
16/12/2014	RAS	1	0930	1045	1.25	AREE_141216_002
16/12/2014	RAS	10	1315	1430	1.25	AREE_141216_003
16/12/2014	RAS	10	1430	1530	1.00	AREE_141216_004
17/12/2014	RAS	8	0830	0930	1.00	AREE_141217_001
17/12/2014	RAS	8	1030	1145	1.25	AREE_141217_002
03/04/2017	RAS	8	1730	1930	2.00	AREE_170403_001
03/04/2017	RAS	16	1250	1450	2.00	AREE_170403_002
03/04/2017	RAS	5	1510	1710	2.00	AREE_170403_003
03/04/2017	RAS	15	1000	1200	2.00	AREE_170403_004
04/04/2017	RAS	8	1510	1710	2.00	AREE_170404_001
04/04/2017	RAS	16	1030	1230	2.00	AREE_170404_002
04/04/2017	RAS	5	1250	1450	2.00	AREE_170404_003
04/04/2017	RAS	15	1730	1930	2.00	AREE_170404_004
05/04/2017	RAS	8	1250	1450	2.00	AREE_170405_001
05/04/2017	RAS	16	1730	1930	2.00	AREE_170405_002
05/04/2017	RAS	5	1030	1230	2.00	AREE_170405_003
05/04/2017	RAS	15	1515	1715	2.00	AREE_170405_004
12/04/2017	RAS	8	0900	1100	2.00	AREE_170412_001
12/04/2017	RAS	15	1115	1320	2.08	AREE_170412_002
13/04/2017	RAS	5	1730	1930	2.00	AREE_170413_001
13/04/2017	RAS	16	1515	1715	2.00	AREE_170413_002
18/04/2017	RAS	9	1415	1715	3.00	AREE_170418_001
18/04/2017	RAS	18	0730	0830	1.00	AREE_170418_002

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Date	Obs	GVP	Start	End	Duration	Watch ID*
18/04/2017	RAS	18	0830	1030	2.00	AREE_170418_003
19/04/2017	RAS	9	0700	0830	1.50	AREE_170419_001
19/04/2017	RAS	9	0830	1000	1.50	AREE_170419_002
19/04/2017	RAS	17	1030	1330	3.00	AREE_170419_003
20/04/2017	RAS	17	0700	0830	1.50	AREE_170420_001
20/04/2017	RAS	17	0830	1000	1.50	AREE_170420_002
20/04/2017	RAS	18	1035	1335	3.00	AREE_170420_003
24/04/2017	RAS	9	1300	1500	2.00	AREE_170424_001
24/04/2017	RAS	17	1525	1725	2.00	AREE_170424_002
24/04/2017	RAS	18	1040	1240	2.00	AREE_170424_003
09/05/2017	RAS	8	0645	0745	1.00	AREE_170509_001
09/05/2017	RAS	8	0745	0945	2.00	AREE_170509_002
09/05/2017	RAS	15	1000	1300	3.00	AREE_170509_003
10/05/2017	RAS	15	0615	0745	1.50	AREE_170510_001
10/05/2017	RAS	15	0745	0915	1.50	AREE_170510_002
10/05/2017	RAS	16	0930	1230	3.00	AREE_170510_003
15/05/2017	RAS	5	0930	1230	3.00	AREE_170515_001
15/05/2017	RAS	16	0615	0745	1.50	AREE_170515_002
15/05/2017	RAS	16	0745	0915	1.50	AREE_170515_003
16/05/2017	RAS	9	1730	1900	1.50	AREE_170516_001
16/05/2017	RAS	9	1900	2030	1.50	AREE_170516_002
16/05/2017	RAS	18	1415	1715	3.00	AREE_170516_003
17/05/2017	RAS	5	0615	0745	1.50	AREE_170517_001
17/05/2017	RAS	5	0745	0915	1.50	AREE_170517_002
17/05/2017	RAS	8	0930	1230	3.00	AREE_170517_003
22/05/2017	RAS	9	1400	1700	3.00	AREE_170522_001
22/05/2017	RAS	17	1730	1900	1.50	AREE_170522_002
22/05/2017	RAS	17	1900	2030	1.50	AREE_170522_003
23/05/2017	RAS	17	1400	1700	3.00	AREE_170523_001
23/05/2017	RAS	18	1730	1900	1.50	AREE_170523_002

Date	Obs	GVP	Start	End	Duration	Watch ID*
23/05/2017	RAS	18	1900	2030	1.50	AREE_170523_003
29/05/2017	RAS	9	1300	1500	2.00	AREE_170529_001
29/05/2017	RAS	17	1520	1720	2.00	AREE_170529_002
29/05/2017	RAS	18	1030	1230	2.00	AREE_170529_003
30/05/2017	RAS	5	1500	1700	2.00	AREE_170530_001
30/05/2017	RAS	8	0815	1015	2.00	AREE_170530_002
30/05/2017	RAS	15	1030	1230	2.00	AREE_170530_003
30/05/2017	RAS	16	1245	1445	2.00	AREE_170530_004
05/06/2017	RAS	17	1400	1700	3.00	AREE_170605_001
05/06/2017	RAS	18	1730	1900	1.50	AREE_170605_002
05/06/2017	RAS	18	1900	2030	1.50	AREE_170605_003
06/06/2017	RAS	9	1730	1900	1.50	AREE_170606_001
06/06/2017	RAS	9	1900	2030	1.50	AREE_170606_002
06/06/2017	RAS	18	1415	1715	3.00	AREE_170606_003
12/06/2017	RAS	9	1415	1715	3.00	AREE_170612_001
12/06/2017	RAS	17	1730	1900	1.50	AREE_170612_002
12/06/2017	RAS	17	1900	2030	1.50	AREE_170612_003
13/06/2017	RAS	9	1330	1530	2.00	AREE_170613_001
13/06/2017	RAS	17	1545	1745	2.00	AREE_170613_002
13/06/2017	RAS	18	1115	1315	2.00	AREE_170613_003
20/06/2017	RAS	5	1245	1445	2.00	AREE_170620_001
20/06/2017	RAS	8	0600	0800	2.00	AREE_170620_002
20/06/2017	RAS	15	0815	1015	2.00	AREE_170620_003
20/06/2017	RAS	16	1030	1230	2.00	AREE_170620_004
21/06/2017	RAS	5	1015	1215	2.00	AREE_170621_001
21/06/2017	RAS	8	1230	1430	2.00	AREE_170621_002
21/06/2017	RAS	15	0600	0800	2.00	AREE_170621_003
21/06/2017	RAS	16	0815	1015	2.00	AREE_170621_004
26/06/2017	RAS	5	0815	1015	2.00	AREE_170626_001
26/06/2017	RAS	8	1030	1230	2.00	AREE_170626_002

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Date	Obs	GVP	Start	End	Duration	Watch ID*
26/06/2017	RAS	15	1245	1445	2.00	AREE_170626_003
26/06/2017	RAS	16	0600	0800	2.00	AREE_170626_004
27/06/2017	RAS	5	0600	0800	2.00	AREE_170627_001
27/06/2017	RAS	8	0815	1015	2.00	AREE_170627_002
27/06/2017	RAS	15	1030	1230	2.00	AREE_170627_003
27/06/2017	RAS	16	1245	1445	2.00	AREE_170627_004
03/07/2017	RAS	9	1145	1445	3.00	AREE_170703_001
03/07/2017	RAS	18	0630	0800	1.50	AREE_170703_002
03/07/2017	RAS	18	1000	1130	1.50	AREE_170703_003
04/07/2017	RAS	9	0630	0800	1.50	AREE_170704_001
04/07/2017	RAS	9	0800	0930	1.50	AREE_170704_002
04/07/2017	RAS	17	1000	1300	3.00	AREE_170704_003
05/07/2017	RAS	17	0630	0800	1.50	AREE_170705_001
05/07/2017	RAS	17	0800	0930	1.50	AREE_170705_002
05/07/2017	RAS	18	1000	1300	3.00	AREE_170705_003
06/07/2017	RAS	9	1135	1335	2.00	AREE_170706_001
06/07/2017	RAS	17	0915	1115	2.00	AREE_170706_002
06/07/2017	RAS	18	1400	1600	2.00	AREE_170706_003
24/07/2017	RAS	5	1830	1900	0.50	AREE_170724_001
24/07/2017	RAS	5	1900	2030	1.50	AREE_170724_002
24/07/2017	RAS	8	1120	1320	2.00	AREE_170724_003
24/07/2017	RAS	15	1335	1535	2.00	AREE_170724_004
24/07/2017	RAS	16	1615	1815	2.00	AREE_170724_005
25/07/2017	RAS	5	1615	1815	2.00	AREE_170725_001
25/07/2017	RAS	8	1830	1900	0.50	AREE_170725_002
25/07/2017	RAS	8	1900	2030	1.50	AREE_170725_003
25/07/2017	RAS	15	1145	1345	2.00	AREE_170725_004
25/07/2017	RAS	16	1400	1600	2.00	AREE_170725_005
26/07/2017	RAS	5	1400	1600	2.00	AREE_170726_001
26/07/2017	RAS	8	1615	1815	2.00	AREE_170726_002

Date	Obs	GVP	Start	End	Duration	Watch ID*
26/07/2017	RAS	15	1830	1900	0.50	AREE_170726_003
26/07/2017	RAS	15	1900	2030	1.50	AREE_170726_004
26/07/2017	RAS	16	1145	1345	2.00	AREE_170726_005
28/07/2017	RAS	5	1145	1345	2.00	AREE_170728_001
28/07/2017	RAS	8	1400	1600	2.00	AREE_170728_002
28/07/2017	RAS	15	1615	1815	2.00	AREE_170728_003
28/07/2017	RAS	16	1830	1900	0.50	AREE_170728_004
28/07/2017	RAS	16	1900	2030	1.50	AREE_170728_005
01/08/2017	RAS	9	1730	1830	1.00	AREE_170801_001
01/08/2017	RAS	9	1830	2030	2.00	AREE_170801_002
01/08/2017	RAS	18	1415	1715	3.00	AREE_170801_003
02/08/2017	RAS	9	1345	1445	1.00	AREE_170802_001
02/08/2017	RAS	17	1630	1830	2.00	AREE_170802_002
02/08/2017	RAS	17	1830	1930	1.00	AREE_170802_003
04/08/2017	RAS	17	1710	1810	1.00	AREE_170804_001
04/08/2017	RAS	18	1840	1940	1.00	AREE_170804_002
07/08/2017	RAS	8	0730	0830	1.00	AREE_170807_001
07/08/2017	RAS	8	0830	0930	1.00	AREE_170807_002
07/08/2017	RAS	15	0945	1145	2.00	AREE_170807_003
08/08/2017	RAS	15	0730	0830	1.00	AREE_170808_001
08/08/2017	RAS	15	0830	0930	1.00	AREE_170808_002
08/08/2017	RAS	16	0945	1145	2.00	AREE_170808_003
11/08/2017	RAS	5	0945	1145	2.00	AREE_170811_001
11/08/2017	RAS	16	0730	0830	1.00	AREE_170811_002
11/08/2017	RAS	16	0830	0930	1.00	AREE_170811_003
14/08/2017	RAS	5	0730	0830	1.00	AREE_170814_001
14/08/2017	RAS	5	0830	0930	1.00	AREE_170814_002
14/08/2017	RAS	8	0945	1145	2.00	AREE_170814_003
12/04/2018	BJD	5	1340	1640	3.00	AREE_180412_001
12/04/2018	NT	9	1400	1700	3.00	AREE_180412_002

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Date	Obs	GVP	Start	End	Duration	Watch ID*
13/04/2018	BJD	8	1655	1855	2.00	AREE_180413_001
13/04/2018	BJD	15	1240	1540	3.00	AREE_180413_002
13/04/2018	NT	18	1330	1630	3.00	AREE_180413_003
28/04/2018	NT	16	0910	1210	3.00	AREE_180428_001
28/04/2018	NT	17	0700	0830	1.50	AREE_180428_002
29/04/2018	NT	16	0710	1010	3.00	AREE_180429_001
29/04/2018	NT	17	1030	1330	3.00	AREE_180429_002
29/04/2018	NT	17	1330	1500	1.50	AREE_180429_003
29/04/2018	NT	18	1700	2000	3.00	AREE_180429_005
30/04/2018	NT	5	0710	1010	3.00	AREE_180430_001
30/04/2018	NT	15	1130	1430	3.00	AREE_180430_002
30/04/2018	NT	9	1630	1930	3.00	AREE_180430_004
01/05/2018	NT	8	1720	2020	3.00	AREE_180501_001
01/05/2018	NT	9	1400	1700	3.00	AREE_180501_002
01/05/2018	DM	16	1655	1955	3.00	AREE_180501_003
01/05/2018	BJD	17	1655	1955	3.00	AREE_180501_004
02/05/2018	DM	5	0700	1000	3.00	AREE_180502_001
02/05/2018	NT	8	1000	1300	3.00	AREE_180502_002
02/05/2018	BJD	15	0710	1010	3.00	AREE_180502_003
02/05/2018	BJD	17	1355	1655	3.00	AREE_180502_004
02/05/2018	NT	18	0620	0920	3.00	AREE_180502_005
03/05/2018	BJD	5	1620	1920	3.00	AREE_180503_001
03/05/2018	NT	8	0930	1230	3.00	AREE_180503_002
03/05/2018	NT	9	0615	0915	3.00	AREE_180503_003
03/05/2018	BJD	16	1030	1330	3.00	AREE_180503_004
03/05/2018	BJD	17	0610	0910	3.00	AREE_180503_005
04/05/2018	NT	8	0615	0915	3.00	AREE_180504_001
04/05/2018	BJD	16	0540	0840	3.00	AREE_180504_002
04/05/2018	BJD	17	0850	1150	3.00	AREE_180504_003
04/05/2018	NT	18	1000	1300	3.00	AREE_180504_004

Date	Obs	GVP	Start	End	Duration	Watch ID*
21/05/2018	NT	9	1515	1815	3.00	AREE_180521_001
21/05/2018	NT	9	1815	2115	3.00	AREE_180521_002
22/05/2018	NT	5	0615	0915	3.00	AREE_180522_001
22/05/2018	NT	5	0915	1215	3.00	AREE_180522_002
22/05/2018	NT	15	1815	2115	3.00	AREE_180522_003
23/05/2018	NT	15	1000	1300	3.00	AREE_180523_001
24/05/2018	NT	15	0615	0915	3.00	AREE_180524_001
24/05/2018	NT	18	1815	2115	3.00	AREE_180524_002
25/05/2018	NT	8	1040	1340	3.00	AREE_180525_001
25/05/2018	NT	16	1815	2115	3.00	AREE_180525_002
25/05/2018	NT	18	0710	1010	3.00	AREE_180525_003
11/06/2018	NT	9	1900	2200	3.00	AREE_180611_001
11/06/2018	NT	18	1130	1430	3.00	AREE_180611_002
12/06/2018	NT	5	1900	2200	3.00	AREE_180612_001
12/06/2018	NT	9	1100	1400	3.00	AREE_180612_002
13/06/2018	NT	17	1100	1400	3.00	AREE_180613_001
13/06/2018	NT	17	1945	2245	3.00	AREE_180613_002
14/06/2018	NT	15	1100	1400	3.00	AREE_180614_001
14/06/2018	NT	15	2015	2315	3.00	AREE_180614_002
15/06/2018	NT	16	1000	1300	3.00	AREE_180615_001
15/06/2018	NT	16	1945	2245	3.00	AREE_180615_002
05/07/2018	RAS	5	1730	1900	1.50	AREE_180705_001
05/07/2018	RAS	5	1900	2030	1.50	AREE_180705_002
05/07/2018	RAS	9	1400	1700	3.00	AREE_180705_003
06/07/2018	RAS	9	0630	0800	1.50	AREE_180706_001
06/07/2018	RAS	9	0800	0930	1.50	AREE_180706_002
06/07/2018	RAS	18	1000	1300	3.00	AREE_180706_003
08/07/2018	NT	8	1910	2210	3.00	AREE_180708_001
09/07/2018	NT	8	1100	1400	3.00	AREE_180709_001
09/07/2018	NT	8	1400	1500	1.00	AREE_180709_002

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Date	Obs	GVP	Start	End	Duration	Watch ID*
10/07/2018	NT	18	2000	2300	3.00	AREE_180710_001
11/07/2018	NT	5	1100	1400	3.00	AREE_180711_001
11/07/2018	RAS	15	1730	1900	1.50	AREE_180711_002
11/07/2018	RAS	15	1900	2030	1.50	AREE_180711_003
11/07/2018	RAS	17	1400	1700	3.00	AREE_180711_004
12/07/2018	RAS	15	1400	1700	3.00	AREE_180712_001
12/07/2018	RAS	16	1730	1900	1.50	AREE_180712_002
12/07/2018	RAS	16	1900	2030	1.50	AREE_180712_003
13/07/2018	RAS	16	1300	1600	3.00	AREE_180713_001
13/07/2018	RAS	17	1730	1900	1.50	AREE_180713_002
13/07/2018	RAS	17	1900	2030	1.50	AREE_180713_003
26/07/2018	RAS	8	1000	1300	3.00	AREE_180726_001
26/07/2018	RAS	18	0630	0800	1.50	AREE_180726_002
26/07/2018	RAS	18	0800	0930	1.50	AREE_180726_003
27/07/2018	RAS	5	1000	1300	3.00	AREE_180727_001
27/07/2018	RAS	8	0630	0800	1.50	AREE_180727_002
27/07/2018	RAS	8	0800	0930	1.50	AREE_180727_003
01/08/2018	RAS	8	1330	1630	3.00	AREE_180801_001
01/08/2018	RAS	18	1700	1830	1.50	AREE_180801_002
01/08/2018	RAS	18	1830	2000	1.50	AREE_180801_003
02/08/2018	RAS	9	1700	1830	1.50	AREE_180802_001
02/08/2018	RAS	9	1830	2000	1.50	AREE_180802_002
02/08/2018	RAS	18	1330	1630	3.00	AREE_180802_003
03/08/2018	RAS	8	1700	1830	1.50	AREE_180803_001
03/08/2018	RAS	8	1830	2000	1.50	AREE_180803_002
03/08/2018	RAS	9	1330	1630	3.00	AREE_180803_003
10/08/2018	RAS	15	1030	1330	3.00	AREE_180810_001
10/08/2018	RAS	17	0700	0830	1.50	AREE_180810_002
10/08/2018	RAS	17	0830	1000	1.50	AREE_180810_003
13/08/2018	RAS	15	0700	0830	1.50	AREE_180813_001

Date	Obs	GVP	Start	End	Duration	Watch ID*
13/08/2018	RAS	15	0830	1000	1.50	AREE_180813_002
13/08/2018	RAS	16	1015	1315	3.00	AREE_180813_003
13/08/2018	RAS	8	1730	1900	1.50	AREE_180813_004
14/08/2018	RAS	5	1030	1330	3.00	AREE_180814_001
14/08/2018	RAS	16	0700	0830	1.50	AREE_180814_002
14/08/2018	RAS	16	0830	1000	1.50	AREE_180814_003
28/08/2018	RAS	5	0700	0830	1.50	AREE_180828_001
28/08/2018	RAS	5	0830	1000	1.50	AREE_180828_002
28/08/2018	RAS	17	1015	1315	3.00	AREE_180828_003
12/09/2018	RAS	9	1200	1500	3.00	AREE_180912_001
12/09/2018	RAS	18	1600	1730	1.50	AREE_180912_002
12/09/2018	RAS	18	1730	1900	1.50	AREE_180912_003
13/09/2018	RAS	8	1600	1730	1.50	AREE_180913_001
13/09/2018	RAS	18	1215	1515	3.00	AREE_180913_002
14/09/2018	RAS	8	1230	1530	3.00	AREE_180914_001
14/09/2018	RAS	9	1600	1730	1.50	AREE_180914_002
14/09/2018	RAS	9	1730	1900	1.50	AREE_180914_003
20/09/2018	RAS	5	0730	0900	1.50	AREE_180920_001
20/09/2018	RAS	5	0900	1030	1.50	AREE_180920_002
20/09/2018	RAS	17	1050	1350	3.00	AREE_180920_003
21/09/2018	RAS	15	0730	0900	1.50	AREE_180921_001
21/09/2018	RAS	15	0900	1030	1.50	AREE_180921_002
21/09/2018	RAS	16	1045	1345	3.00	AREE_180921_003
26/09/2018	RAS	15	1045	1345	3.00	AREE_180926_001
26/09/2018	RAS	17	0730	0900	1.50	AREE_180926_002
26/09/2018	RAS	17	0900	1030	1.50	AREE_180926_003
27/09/2018	RAS	5	1045	1345	3.00	AREE_180927_001
27/09/2018	RAS	16	0730	0900	1.50	AREE_180927_002
27/09/2018	RAS	16	0900	1030	1.50	AREE_180927_003
20/11/2018	RAS	5	0945	1245	3.00	AREE_181120_001

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Date	Obs	GVP	Start	End	Duration	Watch ID*
20/11/2018	RAS	8	1300	1500	2.00	AREE_181120_002
20/11/2018	RAS	8	1500	1600	1.00	AREE_181120_003
21/11/2018	RAS	5	1300	1500	2.00	AREE_181121_001
21/11/2018	RAS	5	1500	1600	1.00	AREE_181121_002
21/11/2018	RAS	8	0930	1230	3.00	AREE_181121_003
22/11/2018	AA	9	0930	1230	3.00	AREE_181122_001
22/11/2018	AA	18	1310	1610	3.00	AREE_181122_002
23/11/2018	AA	9	1150	1450	3.00	AREE_181123_001
23/11/2018	AA	18	0805	1105	3.00	AREE_181123_002
29/11/2018	RAS	15	1135	1335	2.00	AREE_181129_001
29/11/2018	RAS	17	0920	1120	2.00	AREE_181129_002
29/11/2018	RAS	19	1400	1500	1.00	AREE_181129_003
29/11/2018	RAS	19	1500	1600	1.00	AREE_181129_004
30/11/2018	RAS	15	0945	1145	2.00	AREE_181130_001
30/11/2018	RAS	17	1400	1500	1.00	AREE_181130_002
30/11/2018	RAS	17	1500	1600	1.00	AREE_181130_003
30/11/2018	RAS	19	1155	1355	2.00	AREE_181130_004
12/12/2018	RAS	5	1145	1445	3.00	AREE_181212_001
12/12/2018	RAS	8	0830	0930	1.00	AREE_181212_002
12/12/2018	RAS	8	0930	1130	2.00	AREE_181212_003
13/12/2018	RAS	5	1045	1145	1.00	AREE_181213_001
13/12/2018	RAS	8	1200	1300	1.00	AREE_181213_002
14/12/2018	RAS	5	0830	0930	1.00	AREE_181214_001
14/12/2018	RAS	5	0930	1130	2.00	AREE_181214_002
14/12/2018	RAS	8	1145	1445	3.00	AREE_181214_003
17/12/2018	RAS	15	0830	0930	1.00	AREE_181217_001
17/12/2018	RAS	15	0930	1130	2.00	AREE_181217_002
17/12/2018	RAS	19	1145	1445	3.00	AREE_181217_003
18/12/2018	RAS	15	0930	1230	3.00	AREE_181218_001
18/12/2018	RAS	20	1240	1440	2.00	AREE_181218_002

Date	Obs	GVP	Start	End	Duration	Watch ID*
18/12/2018	RAS	20	1440	1540	1.00	AREE_181218_003
19/12/2018	RAS	19	0830	0930	1.00	AREE_181219_001
19/12/2018	RAS	19	0930	1130	2.00	AREE_181219_002
19/12/2018	RAS	20	1145	1445	3.00	AREE_181219_003
20/12/2018	AA	9	1240	1540	3.00	AREE_181220_001
20/12/2018	AA	18	0900	1200	3.00	AREE_181220_002
21/12/2018	AA	9	0845	1145	3.00	AREE_181221_001
21/12/2018	AA	18	1230	1530	3.00	AREE_181221_002
14/01/2019	RAS	5	0945	1245	3.00	AREE_190114_001
14/01/2019	RAS	8	1300	1500	2.00	AREE_190114_002
14/01/2019	RAS	8	1500	1600	1.00	AREE_190114_003
15/01/2019	RAS	5	1300	1500	2.00	AREE_190115_001
15/01/2019	RAS	5	1500	1600	1.00	AREE_190115_002
15/01/2019	RAS	8	0945	1245	3.00	AREE_190115_003
16/01/2019	RAS	9	1300	1500	2.00	AREE_190116_001
16/01/2019	RAS	9	1500	1600	1.00	AREE_190116_002
16/01/2019	RAS	18	0920	1220	3.00	AREE_190116_003
21/01/2019	RAS	19	1145	1445	3.00	AREE_190121_001
21/01/2019	RAS	20	0830	0930	1.00	AREE_190121_002
21/01/2019	RAS	20	0930	1130	2.00	AREE_190121_003
22/01/2019	RAS	15	1145	1445	3.00	AREE_190122_001
22/01/2019	RAS	19	0830	0930	1.00	AREE_190122_002
22/01/2019	RAS	19	0930	1130	2.00	AREE_190122_003
23/01/2019	RAS	15	0830	0930	1.00	AREE_190123_001
23/01/2019	RAS	15	0940	1140	2.00	AREE_190123_002
23/01/2019	RAS	20	1155	1455	3.00	AREE_190123_003
29/01/2019	RAS	9	0915	1215	3.00	AREE_190129_001
29/01/2019	RAS	18	1300	1500	2.00	AREE_190129_002
29/01/2019	RAS	18	1500	1600	1.00	AREE_190129_003
01/02/2019	RAS	9	0800	0900	1.00	AREE_190201_001

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Date	Obs	GVP	Start	End	Duration	Watch ID*
01/02/2019	RAS	9	0900	1100	2.00	AREE_190201_002
01/02/2019	RAS	18	1145	1445	3.00	AREE_190201_003
06/02/2019	RAS	5	1200	1500	3.00	AREE_190206_001
06/02/2019	RAS	8	0800	0900	1.00	AREE_190206_002
06/02/2019	RAS	8	0900	1100	2.00	AREE_190206_003
07/02/2019	RAS	5	0800	0900	1.00	AREE_190207_001
07/02/2019	RAS	5	0900	1100	2.00	AREE_190207_002
07/02/2019	RAS	8	1115	1415	3.00	AREE_190207_003
19/02/2019	RAS	15	1400	1600	2.00	AREE_190219_001
19/02/2019	RAS	15	1600	1700	1.00	AREE_190219_002
19/02/2019	RAS	20	1045	1345	3.00	AREE_190219_003
20/02/2019	RAS	15	1045	1345	3.00	AREE_190220_001
20/02/2019	RAS	19	1400	1600	2.00	AREE_190220_002
20/02/2019	RAS	19	1600	1700	1.00	AREE_190220_003
21/02/2019	RAS	19	1045	1345	3.00	AREE_190221_001
21/02/2019	RAS	20	1400	1600	2.00	AREE_190221_002
21/02/2019	RAS	20	1600	1700	1.00	AREE_190221_003
26/02/2019	RAS	9	1145	1445	3.00	AREE_190226_001
26/02/2019	RAS	18	0800	0900	1.00	AREE_190226_002
26/02/2019	RAS	18	0900	1100	2.00	AREE_190226_003
01/03/2019	RAS	5	1115	1415	3.00	AREE_190301_001
01/03/2019	RAS	8	1430	1600	1.50	AREE_190301_002
01/03/2019	RAS	8	1600	1730	1.50	AREE_190301_003
15/03/2019	RAS	9	1055	1355	3.00	AREE_190315_001
15/03/2019	RAS	18	1500	1630	1.50	AREE_190315_002
15/03/2019	RAS	18	1630	1800	1.50	AREE_190315_003
20/03/2019	RAS	15	1115	1315	2.00	AREE_190320_001
20/03/2019	RAS	15	1315	1515	2.00	AREE_190320_002
20/03/2019	RAS	20	0700	0830	1.50	AREE_190320_003
20/03/2019	RAS	20	0830	1100	2.50	AREE_190320_004

Date	Obs	GVP	Start	End	Duration	Watch ID*
21/03/2019	RAS	19	0700	0830	1.50	AREE_190321_001
21/03/2019	RAS	19	0830	1100	2.50	AREE_190321_002
21/03/2019	RAS	20	1115	1315	2.00	AREE_190321_003
21/03/2019	RAS	20	1315	1515	2.00	AREE_190321_004
22/03/2019	RAS	15	0830	1100	2.50	AREE_190322_001
22/03/2019	RAS	15	0700	0830	1.50	AREE_190322_002
22/03/2019	RAS	19	1115	1315	2.00	AREE_190322_003
22/03/2019	RAS	19	1315	1515	2.00	AREE_190322_004
25/03/2019	RAS	9	1500	1630	1.50	AREE_190325_001
25/03/2019	RAS	9	1630	1800	1.50	AREE_190325_002
25/03/2019	RAS	18	1120	1420	3.00	AREE_190325_003
29/03/2019	RAS	5	1600	1800	2.00	AREE_190329_001
29/03/2019	RAS	8	1200	1400	2.00	AREE_190329_002

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Annex 1.3 Weather details for GVP Watches

*Precipitation Codes: Continuous / Intermittent + Light / Heavy + Rain / Snow / Hail / Fog

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140107_001	0	10	700	SW	4	nil	4
AREE_140107_001	1	10	500	SW	4	ILR	2
AREE_140107_002	0	9	700	SW	4	nil	3
AREE_140107_002	1	10	500	SW	3	ILR	2
AREE_140113_001	0	3	400	SSW	1	nil	2
AREE_140113_001	1	5	400	SSW	1	ILF	1
AREE_140113_002	0	6	300	SSW	1	ILF	1
AREE_140113_002	1	8	800	SSW	2	ILF	2
AREE_140114_001	0	9	500	SW	2	nil	4
AREE_140114_001	1	10	500	SW	2	nil	4
AREE_140114_002	0	10	300	S	2	CLF	1
AREE_140114_002	1	10	500	S	3	ILR	1
AREE_140114_003	0	4	700	W	2	nil	3
AREE_140114_003	1	7	700	W	2	nil	5
AREE_140114_004	0	7	700	W	2	nil	5
AREE_140114_004	1	9	700	W	2	nil	4
AREE_140116_001	0	10	500	SE	2	ILR	2
AREE_140116_001	1	10	500	SE	3	ILR	3
AREE_140116_002	0	10	500	SE	3	nil	3
AREE_140116_002	1	10	500	SE	3	ILR	3
AREE_140116_003	0	10	500	SE	3	ILF	3
AREE_140116_003	1	10	400	SE	3	IHR	2
AREE_140116_004	0	10	300	SE	3	ILR	1
AREE_140116_004	1	10	400	SE	3	ILR	1

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140117_001	0	10	500	nil	0	ILF	2
AREE_140117_001	1	10	500	SE	1	ILF	2
AREE_140117_002	0	10	500	SE	1	ILR	2
AREE_140117_002	1	10	600	SE	1	nil	4
AREE_140117_003	0	9	600	NW	1	nil	3
AREE_140117_003	1	10	600	NW	1	nil	3
AREE_140117_004	0	9	600	NW	1	nil	3
AREE_140117_004	1	9	500	NW	1	nil	3
AREE_140122_001	0	9	500	SW	3	nil	3
AREE_140122_001	1	10	400	SW	3	ILR	3
AREE_140122_002	0	10	400	SW	3	IHR	2
AREE_140122_002	1	10	400	SW	2	IHR	2
AREE_140122_003	0	10	400	SW	2	nil	1
AREE_140122_003	1	9	400	SW	3	nil	3
AREE_140122_004	0	10	400	SW	3	nil	3
AREE_140122_004	1	10	400	SW	3	nil	3
AREE_140128_001	0	10	600	ESE	2	nil	4
AREE_140128_001	1	10	600	ESE	2	nil	4
AREE_140128_002	0	7	600	E	2	nil	5
AREE_140128_002	1	8	700	E	3	nil	5
AREE_140128_003	0	9	700	E	3	nil	5
AREE_140128_003	1	9	700	E	2	nil	5
AREE_140128_004	0	8	700	SE	2	nil	5
AREE_140128_004	1	9	700	SE	2	ILR	4
AREE_140129_001	0	10	600	SE	3	nil	3
AREE_140129_001	1	9	600	SE	3	ILR	3
AREE_140129_002	0	9	600	SE	3	ILR	3
AREE_140129_002	1	8	600	SE	3	ILR	5
AREE_140129_003	0	7	700	SE	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140129_003	1	5	700	SE	3	nil	5
AREE_140129_004	0	4	800	SE	4	nil	5
AREE_140129_004	1	3	800	SE	4	nil	5
AREE_140204_001	0	10	400	SE	1	ILR	2
AREE_140204_001	1	10	400	SE	2	ILR	2
AREE_140204_002	0	10	400	SE	2	nil	2
AREE_140204_002	1	9	500	SE	3	nil	5
AREE_140204_002	2	8	600	S	3	nil	5
AREE_140204_003	0	8	500	S	3	IHR	5
AREE_140204_003	1	7	700	S	4	nil	5
AREE_140204_004	0	5	800	S	4	nil	5
AREE_140204_004	1	5	700	S	3	nil	3
AREE_140206_001	0	9	500	W	4	nil	2
AREE_140206_001	1	9	600	W	4	nil	4
AREE_140206_002	0	9	600	W	4	nil	4
AREE_140206_002	1	8	700	W	4	nil	5
AREE_140206_002	2	6	700	W	4	nil	5
AREE_140207_001	0	5	800	W	3	nil	5
AREE_140207_001	1	5	800	SW	3	nil	5
AREE_140207_002	0	6	800	S	3	nil	5
AREE_140207_002	1	7	800	S	2	nil	5
AREE_140207_003	0	10	500	NW	3	ILR	1
AREE_140207_003	1	10	500	NW	3	IHR	1
AREE_140207_004	0	10	500	NW	3	ILR	2
AREE_140207_004	1	8	600	NW	2	nil	5
AREE_140207_004	2	9	700	NW	2	nil	5
AREE_140210_001	0	10	600	W	3	nil	5
AREE_140210_001	1	10	500	W	3	ILR	4
AREE_140210_002	0	10	500	W	3	ILR	3

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140210_002	1	10	400	W	3	CLR	1
AREE_140210_003	0	5	600	SW	3	nil	3
AREE_140210_003	1	5	600	SW	3	nil	5
AREE_140210_004	0	5	600	SW	3	nil	5
AREE_140210_004	1	5	600	SW	3	nil	5
AREE_140210_004	2	7	600	SW	2	nil	5
AREE_140211_001	0	9	400	W	3	nil	3
AREE_140211_001	1	7	600	W	3	nil	5
AREE_140211_002	0	4	800	W	3	nil	5
AREE_140211_002	1	3	800	W	3	nil	5
AREE_140211_002	2	4	800	W	3	nil	5
AREE_140213_001	0	8	600	W	4	nil	3
AREE_140213_001	1	6	700	W	4	nil	5
AREE_140213_002	0	6	700	W	4	nil	5
AREE_140213_002	1	5	700	W	4	nil	5
AREE_140213_003	0	10	600	WSW	4	nil	4
AREE_140213_003	1	10	600	WSW	4	ILS	3
AREE_140213_004	0	8	700	W	4	nil	5
AREE_140213_004	1	9	700	W	4	nil	4
AREE_140221_001	0	10	700	SW	4	nil	5
AREE_140221_001	1	9	700	SW	4	nil	5
AREE_140221_002	0	8	800	SW	4	nil	5
AREE_140221_002	1	7	800	SW	4	IHR	4
AREE_140224_001	0	10	300	SW	2	CLR	1
AREE_140224_001	1	10	400	SW	2	CLR	2
AREE_140224_002	0	9	500	SW	2	nil	3
AREE_140224_002	1	9	500	SW	3	ILR	4
AREE_140224_002	2	8	600	S	3	nil	5
AREE_140224_003	0	8	700	S	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140224_003	1	9	600	S	4	nil	5
AREE_140224_004	0	10	400	S	4	nil	4
AREE_140224_004	1	10	500	S	4	nil	3
AREE_140225_001	0	10	600	SW	5	nil	4
AREE_140225_001	1	9	600	SW	5	nil	4
AREE_140225_002	0	10	500	SW	4	nil	3
AREE_140225_002	1	9	600	SW	4	nil	3
AREE_140303_001	0	7	700	nil	0	ILF	1
AREE_140303_001	1	8	700	nil	0	ILF	3
AREE_140303_002	0	7	900	NW	3	nil	5
AREE_140303_002	1	7	900	NW	3	nil	5
AREE_140303_002	2	8	800	NW	3	nil	5
AREE_140303_003	0	7	900	NW	3	nil	5
AREE_140303_003	1	7	900	W	3	nil	5
AREE_140303_003	2	7	800	W	3	nil	5
AREE_140303_004	0	7	800	W	3	nil	5
AREE_140303_004	1	8	800	W	2	nil	5
AREE_140307_001	0	10	500	WNW	3	ILR	2
AREE_140307_001	1	9	500	WNW	3	nil	3
AREE_140307_002	0	7	700	W	4	nil	5
AREE_140307_002	1	7	800	W	4	nil	5
AREE_140307_002	2	8	800	W	4	ILR	5
AREE_140310_001	0	7	800	W	1	nil	5
AREE_140310_001	1	8	900	W	1	nil	5
AREE_140310_001	2	8	900	W	1	nil	5
AREE_140310_002	0	3	900	NW	1	nil	5
AREE_140310_002	1	3	900	nil	0	nil	5
AREE_140310_003	0	6	700	W	1	nil	3
AREE_140310_003	1	7	700	W	1	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140310_004	0	6	700	W	1	nil	5
AREE_140310_004	1	7	700	nil	0	nil	5
AREE_140310_004	2	7	700	nil	0	nil	5
AREE_140311_001	0	5	1000	SE	3	nil	5
AREE_140311_001	1	5	1000	SE	2	nil	5
AREE_140311_001	2	6	1000	SE	2	nil	5
AREE_140311_002	0	5	1000	SE	2	nil	5
AREE_140311_002	1	4	1000	SE	2	nil	5
AREE_140313_001	0	10	100		0	CLF	0.5
AREE_140313_001	1	10	100		0	CLF	0.5
AREE_140313_002	0	10	300	SW	1	CLF	1
AREE_140313_002	1	10	400	W	1	nil	2
AREE_140313_002	2	10	500	NW	2	nil	3
AREE_140313_003	0	10	500	NW	3	nil	4
AREE_140313_003	1	10	500	NW	2	nil	4
AREE_140313_003	2	10	400	NW	2	nil	4
AREE_140313_004	0	10	400	NW	2	nil	4
AREE_140313_004	1	10	400	NW	2	nil	4
AREE_140314_001	0	10	300	SE	1	CLF	0.5
AREE_140314_001	1	10	300	SE	2	CLF	0.5
AREE_140314_002	0	10	300	W	3	CLF	1
AREE_140314_002	1	10	400	W	4	nil	3
AREE_140314_002	2	10	500	WSW	4	nil	4
AREE_140321_001	0	10	800	SW	4	nil	5
AREE_140321_001	1	10	800	SW	4	nil	5
AREE_140321_001	2	10	700	S	4	IHR	5
AREE_140321_002	0	10	600	S	4	IHR	3
AREE_140321_002	1	10	500	S	4	ILR	3
AREE_140324_001	0	5	500	SE	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140324_001	1	5	500	SE	4	nil	5
AREE_140324_002	0	6	700	SE	4	nil	5
AREE_140324_002	1	7	800	SE	5	nil	5
AREE_140324_002	2	6	900	SE	5	nil	5
AREE_140327_001	0	7	900	SE	3	nil	5
AREE_140327_001	1	9	900	SE	3	nil	5
AREE_140327_001	2	10	600	ESE	3	ILR	4
AREE_140327_002	0	10	600	ESE	3	ILR	3
AREE_140327_002	1	10	600	ESE	3	ILR	3
AREE_140331_001	0	10	700	SE	3	nil	3
AREE_140331_001	1	10	700	SE	3	ILR	3
AREE_140331_001	2	9	700	SE	3	nil	3
AREE_140331_002	0	8	800	SE	3	nil	3
AREE_140331_002	1	9	800	SE	2	nil	3
AREE_140331_003	0	3	800	E	2	nil	3
AREE_140331_003	1	3	800	E	3	nil	3
AREE_140331_004	0	3	800	SE	3	nil	3
AREE_140331_004	1	6	800	SE	4	nil	3
AREE_140331_004	2	6	800	SE	4	nil	3
AREE_140401_001	0	10	300	W	2	nil	2
AREE_140401_001	1	10	300	W	2	ILR	1
AREE_140401_001	2	9	400	E	1	nil	2
AREE_140401_001	3	10	400	E	1	nil	3
AREE_140401_002	0	10	400	E	2	nil	3
AREE_140401_002	1	10	400	E	2	ILR	3
AREE_140403_001	0	10	600	SSE	2	nil	3
AREE_140403_001	1	10	600	SSE	2	nil	3
AREE_140403_001	2	10	600	SSE	2	ILR	2
AREE_140403_001	3	10	600	SSE	2	ILR	2

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140403_002	0	10	600	SE	2	CLR	1
AREE_140403_002	1	10	600	SE	2	ILR	1
AREE_140404_001	0	10	300	S	1	ILF	2
AREE_140404_001	1	10	300	S	1	ILF	1
AREE_140404_001	2	10	500	S	1	nil	3
AREE_140404_001	3	9	700	SSW	3	nil	5
AREE_140404_002	0	9	700	SSW	2	nil	5
AREE_140404_002	1	7	700	SSW	2	nil	5
AREE_140407_001	0	10	600	W	3	ILR	4
AREE_140407_001	1	6	900	W	3	nil	5
AREE_140407_001	2	3	900	W	3	nil	5
AREE_140407_001	3	4	900	W	2	nil	5
AREE_140407_002	0	6	900	W	3	nil	5
AREE_140407_002	1	9	900	W	2	nil	5
AREE_140408_001	0	5	900	WSW	4	nil	5
AREE_140408_001	1	6	900	WSW	4	nil	5
AREE_140408_001	2	7	900	WSW	4	nil	5
AREE_140408_001	3	7	900	WSW	3	nil	5
AREE_140408_002	0	5	900	WSW	3	nil	5
AREE_140408_002	1	5	900	W	2	nil	5
AREE_140410_001	0	9	900	NW	3	nil	5
AREE_140410_001	1	10	900	NW	3	nil	5
AREE_140410_001	2	9	900	NW	3	ILR	5
AREE_140410_001	3	10	800	WNW	3	nil	5
AREE_140410_002	0	9	800	W	2	nil	5
AREE_140410_002	1	7	800	W	2	nil	5
AREE_140411_001	0	9	900	WSW	3	nil	5
AREE_140411_001	1	10	900	WSW	3	nil	5
AREE_140411_001	2	10	900	WSW	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140411_001	3	10	800	WSW	3	nil	5
AREE_140411_002	0	10	800	SW	3	nil	5
AREE_140411_002	1	10	800	SW	3	nil	5
AREE_140414_001	0	8	500	NW	3	nil	3
AREE_140414_001	1	7	600	NW	3	nil	4
AREE_140414_002	0	5	600	NW	4	nil	5
AREE_140414_002	1	7	600	NW	4	nil	5
AREE_140415_001	0	2	700	SE	3	nil	5
AREE_140415_001	1	5	600	SE	3	nil	5
AREE_140415_002	0	5	500	SE	4	nil	5
AREE_140415_002	1	5	600	SE	4	nil	5
AREE_140417_001	0	10	700	W	3	nil	4
AREE_140417_001	1	10	800	W	4	nil	4
AREE_140417_002	0	10	600	W	5	nil	4
AREE_140417_002	1	10	500	W	5	ILR	4
AREE_140418_001	0	0	0	S	1	nil	5
AREE_140418_001	1	0	0	S	2	nil	5
AREE_140418_002	0	0	0	SW	3	nil	5
AREE_140418_002	1	1	1000	SW	3	nil	5
AREE_140421_001	0	7	900	E	4	nil	4
AREE_140421_001	1	8	900	E	4	nil	4
AREE_140421_002	0	8	900	E	4	nil	4
AREE_140421_002	1	7	900	SE	4	nil	4
AREE_140422_001	0	8	800	SE	3	nil	4
AREE_140422_001	1	8	800	SE	1	nil	4
AREE_140422_002	0	5	900	E	4	nil	5
AREE_140422_002	1	6	900	E	4	nil	5
AREE_140425_001	0	8	900	nil	0	nil	5
AREE_140425_001	1	8	900	SE	1	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140425_002	0	8	900	SE	1	nil	5
AREE_140425_002	1	7	900	SE	3	nil	5
AREE_140501_001	0	10	600	E	2	ILR	4
AREE_140501_001	1	10	700	E	3	nil	5
AREE_140501_002	0	10	700	E	4	ILR	5
AREE_140501_002	1	10	700	E	4	nil	5
AREE_140501_002	2	10	700	E	4	nil	5
AREE_140502_001	0	5	700	SE	3	nil	5
AREE_140502_001	1	5	700	SE	3	nil	5
AREE_140502_002	0	5	900	SE	3	nil	5
AREE_140502_002	1	5	900	SE	3	nil	5
AREE_140502_002	2	7	900	SE	3	nil	5
AREE_140505_001	0	10	500	S	4	nil	3
AREE_140505_001	1	10	500	S	4	nil	3
AREE_140505_002	0	10	500	S	4	nil	3
AREE_140505_002	1	10	500	S	5	nil	3
AREE_140505_002	2	10	600	S	5	nil	3
AREE_140506_001	0	5	700	S	3	nil	5
AREE_140506_001	1	5	700	S	3	nil	5
AREE_140506_002	0	8	800	S	3	nil	5
AREE_140506_002	1	7	800	S	4	nil	5
AREE_140506_002	2	6	900	S	3	nil	5
AREE_140507_001	0	10	600	SW	3	nil	4
AREE_140507_001	1	10	600	SW	3	nil	4
AREE_140507_002	0	10	700	SW	4	nil	5
AREE_140507_002	1	10	700	SW	4	nil	5
AREE_140507_002	2	10	600	SW	3	CLR	3
AREE_140508_001	0	10	400	SW	2	nil	3
AREE_140508_001	1	10	400	SW	3	nil	4

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140508_002	0	10	500	WSW	3	nil	5
AREE_140508_002	1	9	600	WSW	2	nil	5
AREE_140508_002	2	10	600	WSW	2	nil	5
AREE_140509_001	0	9	600	W	2	ILR	4
AREE_140509_001	1	10	600	W	3	nil	5
AREE_140509_002	0	10	600	W	3	nil	5
AREE_140509_002	1	10	600	W	4	IHR	4
AREE_140509_002	2	9	600	W	4	ILR	5
AREE_140514_001	0	10	900	SW	3	nil	5
AREE_140514_001	1	10	600	SW	3	ILR	4
AREE_140514_001	2	10	500	SW	3	nil	5
AREE_140514_001	3	9	600	SW	3	nil	4
AREE_140514_002	0	10	500	SW	2	ILR	3
AREE_140514_002	1	10	600	SW	2	nil	4
AREE_140515_001	0	7	900	WNW	3	nil	5
AREE_140515_001	1	7	900	WNW	3	nil	5
AREE_140515_001	2	6	900	SW	3	nil	5
AREE_140515_001	3	5	900	SW	3	nil	5
AREE_140515_002	0	6	900	SW	3	nil	5
AREE_140515_002	1	8	900	SW	3	nil	5
AREE_140516_001	0	6	900	SW	4	nil	5
AREE_140516_001	1	5	900	SW	4	nil	5
AREE_140516_001	2	4	900	SW	4	nil	5
AREE_140516_001	3	3	900	SW	4	nil	5
AREE_140516_002	0	3	900	SW	3	nil	5
AREE_140516_002	1	2	900	SW	3	nil	5
AREE_140519_001	0	8	900	NE	2	nil	5
AREE_140519_001	1	6	900	N	2	nil	5
AREE_140519_001	2	8	900	E	3	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140519_001	3	9	900	ESE	3	nil	4
AREE_140519_002	0	10	900	SE	4	nil	4
AREE_140519_002	1	10	800	SE	3	IHR	2
AREE_140520_001	0	8	800	S	2	nil	4
AREE_140520_001	1	8	800	SE	3	nil	4
AREE_140520_001	2	8	800	SE	3	nil	4
AREE_140520_001	3	9	700	S	3	nil	3
AREE_140520_002	0	9	700	S	3	nil	3
AREE_140520_002	1	10	700	S	2	nil	3
AREE_140521_001	0	5	900	S	3	nil	5
AREE_140521_001	1	5	900	S	3	nil	5
AREE_140521_001	2	4	900	S	3	nil	5
AREE_140521_001	3	3	900	S	3	nil	5
AREE_140521_002	0	2	900	S	3	nil	5
AREE_140521_002	1	3	900	S	3	nil	5
AREE_140522_001	0	10	900	ENE	3	nil	5
AREE_140522_001	1	10	900	ENE	3	nil	5
AREE_140522_001	2	10	900	ENE	3	nil	5
AREE_140522_001	3	10	900	ENE	2	ILR	5
AREE_140522_002	0	10	900	E	2	nil	5
AREE_140522_002	1	10	900	E	1	nil	4
AREE_140603_001	0	10	600	W	2	ILR	3
AREE_140603_001	1	10	600	W	2	ILR	3
AREE_140603_002	0	10	600	W	3	nil	3
AREE_140603_002	1	9	600	W	3	nil	4
AREE_140603_002	2	8	700	W	3	nil	5
AREE_140604_001	0	8	900	NW	1	nil	4
AREE_140604_001	1	8	900	NW	2	nil	5
AREE_140604_002	0	10	800	NW	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140604_002	1	10	800	NW	3	nil	5
AREE_140604_002	2	10	800	NW	3	nil	5
AREE_140605_001	0	10	600	NW	2	CLR	2
AREE_140605_001	1	10	600	NW	2	ILR	3
AREE_140605_002	0	10	600	NW	3	ILR	4
AREE_140605_002	1	10	700	NW	3	nil	5
AREE_140605_002	2	9	700	NW	4	nil	5
AREE_140609_001	0	4	800	SE	3	nil	5
AREE_140609_001	1	5	700	SE	3	nil	5
AREE_140609_002	0	9	700	SE	4	nil	5
AREE_140609_002	1	10	600	SE	3	ILR	4
AREE_140609_002	2	10	600	SE	3	CLR	3
AREE_140610_001	0	8	800	SE	2	nil	5
AREE_140610_001	1	9	800	SE	2	nil	5
AREE_140610_002	0	10	700	SE	3	nil	4
AREE_140610_002	1	10	600	SE	3	ILR	3
AREE_140610_002	2	10	600	SE	3	ILR	3
AREE_140611_001	0	9	300	nil	0	ILF	2
AREE_140611_001	1	8	300	nil	0	ILF	2
AREE_140611_002	0	7	400	SSW	1	ILF	3
AREE_140611_002	1	6	500	SSW	1	nil	4
AREE_140611_002	2	5	800	SSW	1	nil	5
AREE_140613_001	0	10	800	nil	0	nil	4
AREE_140613_001	1	10	800	SSE	1	nil	4
AREE_140613_002	0	10	800	SSE	1	nil	4
AREE_140613_002	1	10	800	SSE	1	nil	4
AREE_140613_002	2	10	800	SSE	2	nil	4
AREE_140616_001	0	4	900	NNW	4	nil	5
AREE_140616_001	1	4	900	NNW	4	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140616_001	2	4	900	NNW	4	nil	5
AREE_140616_001	3	5	900	NNW	4	nil	5
AREE_140616_002	1	5	900	NW	4	nil	5
AREE_140616_002	1	5	900	NW	3	nil	5
AREE_140621_001	0	8	900	NW	3	nil	5
AREE_140621_001	1	9	900	NW	3	nil	5
AREE_140621_001	2	9	900	NW	3	nil	5
AREE_140621_001	3	8	900	NW	3	nil	5
AREE_140621_002	0	7	900	NW	3	nil	5
AREE_140621_002	1	6	900	NW	2	nil	5
AREE_140623_001	0	7	800	NW	4	nil	5
AREE_140623_001	1	7	800	NW	4	nil	5
AREE_140623_001	2	8	800	NW	4	nil	5
AREE_140623_001	3	8	800	NW	4	nil	5
AREE_140623_002	0	7	800	NW	4	nil	5
AREE_140623_002	1	7	500	NW	3	nil	5
AREE_140624_001	0	10	800	NW	3	nil	3
AREE_140624_001	1	8	800	NW	2	ILR	4
AREE_140624_001	2	7	900	NW	3	nil	5
AREE_140624_001	3	6	800	NW	3	nil	5
AREE_140624_002	0	7	800	NW	2	nil	5
AREE_140624_002	1	9	700	NW	2	nil	4
AREE_140626_001	0	10	800	SE	2	nil	4
AREE_140626_001	1	10	800	SE	2	nil	4
AREE_140626_001	2	10	800	SE	2	nil	4
AREE_140626_001	3	9	800	SE	2	nil	4
AREE_140626_002	0	9	800	SE	1	nil	4
AREE_140626_002	1	8	900	SE	1	nil	5
AREE_140627_001	0	7	900	SE	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140627_001	1	5	900	SE	2	nil	5
AREE_140627_001	2	5	900	SE	2	nil	5
AREE_140627_001	3	6	900	E	3	nil	5
AREE_140627_002	0	6	900	E	2	nil	5
AREE_140627_002	1	7	900	E	2	nil	5
AREE_140630_001	0	6	900	NW	2	nil	5
AREE_140630_001	1	5	900	W	2	nil	5
AREE_140630_001	2	5	900	W	2	nil	5
AREE_140630_001	3	7	900	W	3	nil	5
AREE_140630_002	0	7	900	W	3	nil	5
AREE_140630_002	1	8	900	W	2	nil	5
AREE_140702_001	0	10	900	SE	3	nil	4
AREE_140702_001	1	10	900	SE	3	nil	4
AREE_140702_002	0	10	900	S	3	nil	5
AREE_140702_002	1	10	900	S	4	nil	5
AREE_140702_002	2	10	900	S	4	nil	5
AREE_140703_001	0	9	700	S	2	nil	5
AREE_140703_001	1	8	700	S	2	nil	5
AREE_140703_002	0	8	800	SW	3	nil	5
AREE_140703_002	1	9	900	SW	3	nil	5
AREE_140703_002	2	10	900	SW	4	nil	5
AREE_140704_001	0	10	700	SW	3	nil	4
AREE_140704_001	1	10	700	SW	3	ILR	4
AREE_140704_002	0	10	600	SW	3	ILR	3
AREE_140704_002	1	10	500	SW	4	CLR	2
AREE_140704_002	2	10	500	SW	4	CLR	2
AREE_140707_001	0	5	600	SW	3	nil	5
AREE_140707_001	1	4	600	SW	3	nil	5
AREE_140707_002	0	5	800	SW	3	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140707_002	1	5	900	W	3	nil	5
AREE_140707_002	2	5	900	W	3	nil	5
AREE_140708_001	0	10	800	nil	0	nil	4
AREE_140708_001	1	10	800	nil	0	nil	4
AREE_140708_002	0	10	900	nil	0	nil	4
AREE_140708_002	1	10	900	SSW	1	nil	4
AREE_140708_002	2	10	900	SW	2	nil	4
AREE_140710_001	0	2	900	W	3	nil	5
AREE_140710_001	1	2	900	W	3	nil	5
AREE_140710_001	2	2	900	W	4	nil	5
AREE_140710_001	3	2	900	W	4	nil	5
AREE_140710_002	0	2	900	W	3	nil	5
AREE_140710_002	1	3	900	W	3	nil	5
AREE_140711_001	0	5	900	WSW	3	nil	5
AREE_140711_001	1	6	900	WSW	3	nil	5
AREE_140711_001	2	6	900	WSW	3	nil	5
AREE_140711_001	3	6	900	SW	3	nil	5
AREE_140711_002	0	6	900	SW	3	nil	5
AREE_140711_002	1	7	900	SW	2	nil	5
AREE_140717_001	0	10	300	nil	0	ILF	2
AREE_140717_001	1	10	300	nil	0	ILF	2
AREE_140717_002	0	9	500	SW	1	nil	3
AREE_140717_002	1	8	500	SW	1	nil	3
AREE_140717_002	2	7	600	SW	2	nil	5
AREE_140721_001	0	10	300	W	2	ILF	2
AREE_140721_001	1	10	300	W	3	ILF	3
AREE_140721_002	0	9	500	W	2	nil	3
AREE_140721_002	1	9	600	W	1	nil	4
AREE_140721_002	2	7	800	nil	0	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140722_001	0	4	1000	SW	2	nil	5
AREE_140722_001	1	4	1000	SW	2	nil	5
AREE_140722_001	2	6	900	SW	3	nil	5
AREE_140722_001	3	4	900	SW	3	nil	5
AREE_140722_002	0	3	900	S	3	nil	5
AREE_140722_002	1	2	900	SE	2	nil	5
AREE_140723_001	0	4	1000	SSE	3	nil	5
AREE_140723_001	1	3	1000	SSE	3	nil	5
AREE_140723_001	2	2	1000	SSE	3	nil	5
AREE_140723_001	3	2	1000	S	3	nil	5
AREE_140723_002	0	2	1000	S	3	nil	5
AREE_140723_002	1	2	1000	S	2	nil	5
AREE_140724_001	0	5	1000	SW	3	nil	5
AREE_140724_001	1	5	1000	SW	3	nil	5
AREE_140724_001	2	4	1000	W	3	nil	5
AREE_140724_001	3	3	1000	W	3	nil	5
AREE_140724_002	0	3	1000	W	2	nil	5
AREE_140724_002	1	4	1000	W	2	nil	5
AREE_140725_001	0	6	1000	W	2	nil	5
AREE_140725_001	1	5	1000	W	2	nil	5
AREE_140725_001	2	6	1000	WNW	3	nil	5
AREE_140725_001	3	4	1000	WNW	2	nil	5
AREE_140725_002	0	3	1000	WNW	1	nil	5
AREE_140725_002	1	3	1000	nil	0	nil	5
AREE_140729_001	0	7	800	WNW	5	nil	5
AREE_140729_001	1	9	800	WNW	5	nil	5
AREE_140729_001	2	10	800	WNW	5	nil	5
AREE_140729_001	3	10	800	WNW	4	nil	4
AREE_140729_002	0	10	700	NW	4	ILR	3

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140729_002	1	9	600	NW	3	ILR	3
AREE_140811_001	0	9	700	WNW	4	nil	5
AREE_140811_001	1	9	700	WNW	3	IHR	5
AREE_140811_001	2	8	700	WNW	4	ILR	5
AREE_140811_002	0	9	800	WNW	3	ILR	5
AREE_140811_002	1	8	700	W	2	IHR	4
AREE_140812_001	0	10	600	W	3	CLR	3
AREE_140812_001	1	10	600	W	3	CLR	3
AREE_140812_001	2	10	500	W	3	ILR	3
AREE_140812_002	0	9	600	W	3	nil	4
AREE_140812_002	1	9	600	W	3	nil	4
AREE_140813_001	0	9	600	W	3	nil	2
AREE_140813_001	1	9	600	W	3	nil	3
AREE_140813_002	0	9	700	W	4	nil	4
AREE_140813_002	1	8	700	W	4	nil	4
AREE_140813_002	2	8	700	W	4	nil	5
AREE_140814_001	0	10	600	NW	3	nil	3
AREE_140814_001	1	10	600	NW	3	ILR	4
AREE_140814_002	0	10	600	NW	3	nil	4
AREE_140814_002	1	10	600	NW	3	nil	4
AREE_140814_002	2	10	600	NW	3	ILR	4
AREE_140815_001	0	4	900	NW	2	ILF	5
AREE_140815_001	1	5	600	NW	3	nil	5
AREE_140815_002	0	5	600	NW	3	nil	5
AREE_140815_002	1	7	700	NW	3	nil	5
AREE_140815_002	2	8	700	NW	3	nil	5
AREE_140818_001	0	7	700	NW	5	nil	5
AREE_140818_001	1	9	700	NW	5	nil	5
AREE_140818_001	2	10	700	NW	5	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140818_002	0	10	700	NW	4	nil	4
AREE_140818_002	1	10	700	NW	4	nil	4
AREE_140819_001	0	6	1000	NW	4	nil	5
AREE_140819_001	1	5	1000	NW	4	nil	5
AREE_140819_001	2	5	1000	NW	4	nil	5
AREE_140819_002	0	4	800	NW	3	nil	5
AREE_140819_002	1	5	900	NW	3	nil	5
AREE_140820_001	0	6	1000	NW	4	nil	5
AREE_140820_001	1	8	1000	NW	4	nil	5
AREE_140820_001	2	8	1000	NW	4	nil	5
AREE_140820_002	0	10	900	NW	3	nil	5
AREE_140820_002	1	10	800	NW	3	nil	4
AREE_140822_001	0	5	700	nil	0	nil	5
AREE_140822_001	1	7	600	NW	1	ILR	5
AREE_140822_002	0	7	600	NW	1	nil	5
AREE_140822_002	1	7	600	NW	2	ILR	5
AREE_140822_002	2	6	800	NW	3	nil	5
AREE_140822_003	0	6	900	NW	4	nil	5
AREE_140822_003	1	5	900	NW	5	nil	5
AREE_140822_003	2	4	900	NW	5	nil	5
AREE_140822_004	0	5	900	NW	4	nil	5
AREE_140822_004	1	5	900	NW	4	nil	5
AREE_140825_001	0	10	900	ESE	4	nil	5
AREE_140825_001	1	10	900	ESE	4	nil	5
AREE_140825_001	2	10	900	ESE	4	nil	5
AREE_140825_002	0	9	900	ESE	4	nil	5
AREE_140825_002	1	7	900	E	5	nil	5
AREE_140827_001	0	1	900	SE	1	nil	5
AREE_140827_001	1	1	900	SE	2	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140827_002	0	1	900	SE	3	nil	5
AREE_140827_002	1	3	900	SE	4	nil	5
AREE_140827_002	2	4	900	SE	5	nil	5
AREE_140828_001	0	7	600	S	2	ILR	4
AREE_140828_001	1	5	600	S	3	nil	5
AREE_140828_002	0	4	600	S	3	nil	5
AREE_140828_002	1	7	500	S	3	nil	5
AREE_140828_002	2	10	400	S	3	ILR	5
AREE_140829_001	0	9	600	SW	4	ILR	4
AREE_140829_001	1	7	600	SW	4	nil	5
AREE_140829_002	0	6	600	SW	5	nil	5
AREE_140829_002	1	10	600	SW	5	nil	5
AREE_140829_002	2	10	700	SW	5	ILR	5
AREE_140901_001	0	8	900	NW	3	nil	5
AREE_140901_001	1	6	900	NW	4	nil	5
AREE_140901_001	2	8	900	NW	4	nil	5
AREE_140901_002	0	8	900	WNW	3	nil	5
AREE_140901_002	1	7	800	NW	3	nil	5
AREE_140901_003	0	10	700	W	2	nil	3
AREE_140901_003	1	10	800	WNW	3	nil	4
AREE_140901_004	0	9	800	WNW	3	nil	5
AREE_140901_004	1	10	700	W	3	nil	5
AREE_140901_004	2	10	700	W	3	nil	5
AREE_140902_001	0	10	800	NW	1	nil	5
AREE_140902_001	1	10	800	NW	1	nil	5
AREE_140902_001	2	10	800	W	1	nil	5
AREE_140902_002	0	9	800	nil	0	nil	5
AREE_140902_002	1	4	800	nil	0	nil	5
AREE_140902_003	0	10	700	nil	0	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140902_003	1	10	700	SSW	1	nil	5
AREE_140902_004	0	10	700	nil	0	nil	5
AREE_140902_004	1	10	700	S	1	nil	5
AREE_140902_004	2	10	800	E	1	nil	5
AREE_140904_001	0	10	300	S	3	CLF	1
AREE_140904_001	1	10	300	S	3	CLF	1
AREE_140904_002	0	9	300	S	3	CLF	1
AREE_140904_002	1	9	400	S	4	CLF	1
AREE_140904_002	2	9	400	SE	4	CLF	2
AREE_140905_001	0	10	300	NW	1	ILR	1
AREE_140905_001	1	10	300	NW	1	nil	1
AREE_140905_002	0	10	300	NW	2	nil	1
AREE_140905_002	1	10	300	NW	3	nil	1
AREE_140905_002	2	10	300	NW	3	nil	1
AREE_140905_003	0	10	300	nil	0	ILR	1
AREE_140905_003	1	10	300	NW	2	nil	1
AREE_140905_003	2	10	300	NW	2	nil	1
AREE_140905_004	0	10	300	NW	2	nil	2
AREE_140905_004	1	10	300	NW	2	nil	1
AREE_140908_001	0	9	900	NW	3	nil	5
AREE_140908_001	1	8	900	NW	4	nil	5
AREE_140908_001	2	9	900	NW	4	nil	5
AREE_140908_002	0	8	900	NW	3	nil	5
AREE_140908_002	1	8	900	NW	3	nil	5
AREE_140908_003	0	2	800	nil	0	nil	5
AREE_140908_003	1	3	800	NW	1	nil	5
AREE_140908_004	0	5	800	NW	2	nil	5
AREE_140908_004	1	5	800	N	3	nil	5
AREE_140908_004	2	7	800	N	3	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140909_001	0	8	600	nil	0	nil	4
AREE_140909_001	1	7	700	nil	0	nil	5
AREE_140909_002	0	7	700	nil	0	nil	5
AREE_140909_002	1	6	900	NW	1	nil	5
AREE_140909_002	2	7	900	NW	2	nil	5
AREE_140909_003	0	6	900	WNW	3	nil	5
AREE_140909_003	1	6	900	W	3	nil	5
AREE_140909_003	2	5	900	W	3	nil	5
AREE_140909_004	0	3	900	NW	3	nil	5
AREE_140909_004	1	2	900	NW	2	nil	5
AREE_140923_001	0	10	800	W	2	nil	5
AREE_140923_001	1	10	800	W	2	nil	5
AREE_140923_001	2	10	700	W	2	nil	5
AREE_140923_002	0	10	800	W	2	nil	5
AREE_140923_002	1	10	800	W	1	ILR	5
AREE_140925_001	0	10	400	SW	2	ILR	2
AREE_140925_001	1	10	400	SW	2	nil	2
AREE_140925_002	0	10	400	SW	3	nil	2
AREE_140925_002	1	10	500	SW	2	ILR	2
AREE_140925_002	2	10	500	SW	3	nil	4
AREE_140925_003	0	10	500	SW	3	nil	5
AREE_140925_003	1	10	500	SW	4	nil	5
AREE_140925_003	2	10	400	SW	3	ILR	3
AREE_140925_004	0	10	400	SW	3	nil	4
AREE_140925_004	1	10	400	SW	3	ILR	3
AREE_141001_001	0	5	900	NW	5	nil	5
AREE_141001_001	1	4	900	NW	4	nil	5
AREE_141001_001	2	3	900	NW	4	nil	5
AREE_141001_002	0	2	900	NW	4	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_141001_002	1	2	900	NW	3	nil	5
AREE_141006_001	0	10	500	S	4	CHR	2
AREE_141006_001	1	10	500	S	3	IHR	2
AREE_141006_002	0	10	500	S	3	IHR	2
AREE_141006_002	1	7	600	S	3	IHR	4
AREE_141008_001	0	10	400	SE	2	ILF	1
AREE_141008_001	1	10	400	SE	2	ILR	1
AREE_141008_002	0	10	600	SE	2	CHR	3
AREE_141008_002	1	10	600	SE	3	nil	3
AREE_141008_003	0	10	600	E	3	nil	4
AREE_141008_003	1	10	500	E	3	ILR	3
AREE_141008_003	2	9	600	E	3	ILR	3
AREE_141008_004	0	9	600	E	3	ILR	3
AREE_141008_004	1	8	700	E	3	nil	4
AREE_141009_001	0	10	800	NW	1	nil	5
AREE_141009_001	1	10	800	NW	2	nil	5
AREE_141009_001	2	10	800	NW	3	nil	5
AREE_141009_002	0	8	800	NW	3	nil	5
AREE_141009_002	1	7	700	NW	3	nil	5
AREE_141009_003	0	8	700	E	1	ILF	4
AREE_141009_003	1	7	700	E	1	nil	4
AREE_141009_004	0	7	800	E	1	nil	4
AREE_141009_004	1	9	800	E	2	nil	4
AREE_141010_001	0	3	700	S	1	nil	5
AREE_141010_001	1	4	800	S	2	nil	5
AREE_141010_002	0	4	800	S	2	nil	5
AREE_141010_002	1	5	800	S	2	nil	5
AREE_141010_003	0	8	700	S	3	nil	5
AREE_141010_003	1	9	700	S	3	ILR	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_141010_003	2	8	700	S	3	nil	5
AREE_141010_004	0	8	700	S	3	nil	5
AREE_141010_004	1	7	700	S	2	nil	5
AREE_141013_001	0	8	800	NE	3	nil	5
AREE_141013_001	1	6	800	NE	3	nil	5
AREE_141013_001	2	7	800	NE	3	nil	5
AREE_141013_002	0	8	800	NE	3	nil	5
AREE_141013_002	1	8	800	NE	3	nil	5
AREE_141013_003	0	4	800	NE	2	nil	5
AREE_141013_003	1	5	800	NE	2	nil	5
AREE_141013_004	0	5	800	NE	2	nil	5
AREE_141013_004	1	6	800	NE	3	nil	5
AREE_141016_001	0	8	600	SE	3	nil	5
AREE_141016_001	1	7	600	SE	3	nil	5
AREE_141016_001	2	9	600	SE	3	ILR	5
AREE_141016_002	0	9	600	SE	3	nil	5
AREE_141016_002	1	7	700	SE	3	nil	5
AREE_141016_003	0	9	400	SE	3	nil	4
AREE_141016_003	1	9	400	SE	3	nil	4
AREE_141016_004	0	9	400	SE	3	nil	4
AREE_141016_004	1	10	400	SE	3	CLR	2
AREE_141020_001	0	10	500	SW	3	nil	4
AREE_141020_001	1	10	500	SW	3	nil	4
AREE_141020_002	0	10	500	SW	3	nil	4
AREE_141020_002	1	9	600	SW	3	nil	5
AREE_141020_003	0	8	700	SW	4	nil	5
AREE_141020_003	1	9	700	SW	4	nil	5
AREE_141020_003	2	8	700	SW	4	nil	5
AREE_141020_004	0	8	700	SW	4	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_141020_004	1	10	600	SW	4	nil	4
AREE_141104_001	0	6	700	N	4	nil	5
AREE_141104_001	1	4	700	N	4	nil	5
AREE_141104_001	2	4	700	N	3	nil	5
AREE_141104_002	0	4	700	N	3	nil	5
AREE_141104_002	1	5	700	N	3	nil	5
AREE_141104_003	0	10	300	N	1	ILR	1
AREE_141104_003	1	10	300	N	1	ILR	2
AREE_141104_004	0	10	400	N	2	ILR	3
AREE_141104_004	1	9	500	N	2	ILR	4
AREE_141117_001	0	5	800	NE	2	nil	5
AREE_141117_001	1	6	800	NE	2	nil	5
AREE_141117_002	0	7	800	NE	2	nil	5
AREE_141117_002	1	7	800	NE	1	nil	5
AREE_141118_001	0	2	800	SE	3	nil	5
AREE_141118_001	1	1	800	SE	3	nil	5
AREE_141118_002	0	1	800	SE	2	nil	5
AREE_141118_002	1	2	800	SE	2	nil	5
AREE_141118_003	0	4	900	SE	2	nil	5
AREE_141118_003	1	4	900	SE	3	nil	5
AREE_141118_004	0	4	900	SE	3	nil	5
AREE_141118_004	1	3	900	SE	3	nil	5
AREE_141119_001	0	8	700	SE	3	nil	3
AREE_141119_001	1	8	700	SE	3	nil	4
AREE_141119_002	0	9	700	SE	3	nil	4
AREE_141119_002	1	9	700	SE	3	nil	4
AREE_141119_003	0	8	700	SE	3	nil	5
AREE_141119_003	1	7	700	SE	4	nil	5
AREE_141119_004	0	8	700	SE	3	nil	4

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_141119_004	1	9	700	SE	3	nil	4
AREE_141120_001	0	8	500	SE	2	ILR	2
AREE_141120_001	1	8	500	SE	2	nil	2
AREE_141120_002	0	8	500	SE	2	nil	2
AREE_141120_002	1	9	500	SE	2	nil	2
AREE_141121_001	0	6	600	E	3	ILF	2
AREE_141121_001	1	6	600	E	3	ILF	3
AREE_141121_002	0	6	600	E	3	ILF	3
AREE_141121_002	1	8	600	E	3	nil	3
AREE_141121_003	0	10	600	SE	5	nil	3
AREE_141121_003	1	10	600	SE	5	ILR	3
AREE_141121_004	0	10	600	SE	5	ILR	3
AREE_141121_004	1	10	600	SE	5	nil	2
AREE_141124_001	0	6	800	SW	3	nil	5
AREE_141124_001	1	9	800	SW	3	nil	5
AREE_141124_002	0	9	700	SW	2	nil	5
AREE_141124_002	1	9	700	S	1	nil	4
AREE_141124_003	0	8	700	nil	0	nil	3
AREE_141124_003	1	9	700	nil	0	nil	4
AREE_141124_004	0	10	700	SW	2	nil	5
AREE_141124_004	1	9	700	SW	2	nil	5
AREE_141125_001	0	9	700	nil	0	CHF	0.5
AREE_141125_001	1	8	800	nil	0	IHF	1
AREE_141125_002	0	8	800	S	1	ILF	5
AREE_141125_002	1	10	700	S	1	nil	4
AREE_141125_003	0	10	300	SE	3	nil	2
AREE_141125_003	1	10	300	SE	3	nil	2
AREE_141125_004	0	10	300	SE	3	CLF	1
AREE_141125_004	1	10	300	SE	3	ILR	0.5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_141201_001	0	10	500	SSW	3	nil	4
AREE_141201_001	1	10	400	SSW	3	ILR	2
AREE_141201_002	0	10	400	S	2	ILR	2
AREE_141201_002	1	10	400	S	1	ILR	1
AREE_141201_003	0	9	300	SSE	1	ILF	1
AREE_141201_003	1	9	300	SSE	2	ILF	1
AREE_141201_004	0	10	400	SSW	3	nil	2
AREE_141201_004	1	7	500	SSW	3	nil	5
AREE_141202_001	0	5	900	NW	3	nil	5
AREE_141202_001	1	3	900	NW	2	nil	5
AREE_141202_002	0	3	900	NW	2	nil	5
AREE_141202_002	1	4	900	NW	3	nil	5
AREE_141202_003	0	2	900	N	1	nil	5
AREE_141202_003	1	3	900	N	2	nil	5
AREE_141202_004	0	3	900	N	2	nil	5
AREE_141202_004	1	3	900	N	3	nil	5
AREE_141203_001	0	10	500	SE	2	nil	4
AREE_141203_001	1	10	400	SE	2	ILR	3
AREE_141203_002	0	10	400	SE	2	CLR	3
AREE_141203_002	1	10	500	S	1	ILR	3
AREE_141204_001	0	10	600	SE	3	ILR	4
AREE_141204_001	1	10	600	SE	2	CLR	3
AREE_141204_002	0	10	600	SE	1	ILR	3
AREE_141204_002	1	10	500	SE	1	ILR	3
AREE_141204_003	0	10	400	SE	2	ILR	2
AREE_141204_003	1	10	400	SE	2	ILR	2
AREE_141204_004	0	10	600	SE	3	ILR	4
AREE_141204_004	1	10	600	SE	3	ILR	4
AREE_141205_001	0	6	600	NW	2	nil	3

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_141205_001	1	8	600	NW	2	ILR	3
AREE_141205_002	0	8	600	NW	3	CHH	5
AREE_141205_002	1	6	600	NW	3	ILR	5
AREE_141205_003	0	5	600	NW	4	nil	5
AREE_141205_003	1	5	800	NW	4	nil	5
AREE_141205_004	0	5	700	NW	4	nil	5
AREE_141205_004	1	6	700	NW	4	ILR	5
AREE_141215_001	0	9	500	NW	2	nil	2
AREE_141215_001	1	10	500	NW	3	IHR	2
AREE_141215_002	0	9	500	NW	3	nil	3
AREE_141215_002	1	8	600	W	3	ILR	3
AREE_141215_003	0	7	600	W	3	nil	5
AREE_141215_003	1	7	600	W	3	nil	5
AREE_141215_004	0	10	600	W	3	nil	5
AREE_141215_004	1	6	600	W	4	nil	5
AREE_141216_001	0	4	700	NW	2	nil	5
AREE_141216_001	1	5	700	NW	3	nil	1
AREE_141216_002	0	5	700	NW	3	nil	5
AREE_141216_002	1	8	700	NW	1	nil	5
AREE_141216_003	0	9	700	W	3	nil	5
AREE_141216_003	1	10	400	W	2	ILR	3
AREE_141216_004	0	10	400	SW	2	nil	3
AREE_141216_004	1	10	400	SW	2	nil	2
AREE_141217_001	0	10	300	W	3	nil	1
AREE_141217_001	1	10	300	W	3	ILR	1
AREE_141217_002	0	10	300	WNW	4	CLR	1
AREE_141217_002	1	10	300	WNW	5	ILR	1
AREE_170403_001	0	10	300	S	4	ILR	3
AREE_170403_001	1	10	300	S	4	CLR	2

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170403_001	2	10	400	S	4	ILR	3
AREE_170403_002	0	10	500	S	5	nil	5
AREE_170403_002	1	10	500	S	5	nil	5
AREE_170403_002	2	10	500	S	5	nil	5
AREE_170403_003	0	10	500	S	5	nil	5
AREE_170403_003	1	10	500	S	5	nil	5
AREE_170403_003	2	10	300	S	5	ILR	3
AREE_170403_004	0	10	500	S	4	nil	5
AREE_170403_004	1	10	500	S	4	nil	5
AREE_170403_004	2	10	500	S	5	nil	5
AREE_170404_001	0	9	900	NW	4	nil	5
AREE_170404_001	1	7	900	NW	4	nil	5
AREE_170404_001	2	8	900	NW	4	nil	5
AREE_170404_002	0	4	900	WNW	4	nil	5
AREE_170404_002	1	6	800	WNW	4	nil	5
AREE_170404_002	2	6	800	WNW	4	nil	5
AREE_170404_004	0	8	900	NW	4	nil	5
AREE_170404_004	1	8	800	NW	3	nil	5
AREE_170404_004	2	9	800	NW	3	nil	5
AREE_170405_001	0	9	800	NW	3	nil	5
AREE_170405_001	1	7	900	NW	3	nil	5
AREE_170405_001	2	7	900	NW	4	nil	5
AREE_170405_002	0	9	900	NW	3	nil	5
AREE_170405_002	1	7	900	NW	3	nil	5
AREE_170405_002	2	4	900	NW	3	nil	5
AREE_170405_003	0	10	600	NW	3	nil	5
AREE_170405_003	1	10	600	NW	4	ILR	4
AREE_170405_003	2	9	600	WNW	3	nil	5
AREE_170405_004	0	8	900	NW	4	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170405_004	1	9	900	NW	4	nil	5
AREE_170405_004	2	9	900	NW	3	nil	5
AREE_170412_001	0	10	400	WNW	3	ILR	5
AREE_170412_001	1	10	400	WNW	3	nil	5
AREE_170412_001	2	10	500	WNW	4	IHR	5
AREE_170412_002	0	9	600	WNW	4	nil	5
AREE_170412_002	1	8	800	WNW	4	nil	5
AREE_170412_002	2	7	800	WNW	4	nil	5
AREE_170413_001	0	10	400	W	3	ILR	3
AREE_170413_001	1	9	500	W	2	nil	5
AREE_170413_001	2	7	600	W	3	nil	5
AREE_170413_002	0	9	800	W	3	nil	5
AREE_170413_002	1	10	800	W	3	nil	5
AREE_170413_002	2	10	600	W	3	ILR	4
AREE_170418_001	0	10	900	SSE	3	nil	5
AREE_170418_001	1	10	900	SSE	3	nil	5
AREE_170418_001	2	10	900	SSE	3	nil	5
AREE_170418_001	3	10	900	SSE	3	nil	5
AREE_170418_002	0	8	900	SE	2	nil	5
AREE_170418_002	1	9	900	SE	2	nil	5
AREE_170418_003	0	10	900	SE	2	nil	5
AREE_170418_003	1	10	900	SE	3	nil	5
AREE_170418_003	2	9	900	SE	3	nil	5
AREE_170419_001	0	10	400	SE	3	ILR	2
AREE_170419_001	1	10	300	SE	3	ILR	1
AREE_170419_002	0	10	400	SE	3	CLR	1
AREE_170419_002	1	10	300	E	2	ILR	2
AREE_170419_003	0	10	300	SE	1	CLF	1
AREE_170419_003	1	10	300	SE	2	CLF	1

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170419_003	2	9	500	SE	2	nil	4
AREE_170419_003	3	7	600	NE	2	nil	5
AREE_170420_001	0	10	500	W	3	nil	4
AREE_170420_001	1	10	500	W	3	nil	4
AREE_170420_002	0	10	500	W	3	nil	4
AREE_170420_002	1	10	400	W	3	ILR	2
AREE_170420_003	0	10	500	W	4	nil	4
AREE_170420_003	1	10	500	W	4	ILR	4
AREE_170420_003	2	10	300	W	4	ILR	3
AREE_170420_003	3	10	500	W	4	nil	5
AREE_170424_001	0	5	900	NW	5	nil	5
AREE_170424_001	1	5	900	NW	5	nil	5
AREE_170424_001	2	5	900	NW	5	nil	5
AREE_170424_002	0	5	900	NW	5	nil	5
AREE_170424_002	1	6	900	NW	6	nil	5
AREE_170424_002	2	6	900	NW	6	IHH	5
AREE_170424_003	0	10	900	NW	4	nil	5
AREE_170424_003	1	7	900	NW	4	nil	5
AREE_170424_003	2	5	900	NW	5	nil	5
AREE_170509_001	0	3	900	S	2	nil	5
AREE_170509_001	1	4	900	S	2	nil	5
AREE_170509_002	0	4	900	S	2	nil	5
AREE_170509_002	1	4	900	SW	2	nil	5
AREE_170509_002	2	4	900	SW	1	nil	5
AREE_170509_003	0	4	900	SW	2	nil	5
AREE_170509_003	1	4	900	SW	1	nil	5
AREE_170509_003	2	3	900	W	3	nil	5
AREE_170509_003	3	3	900	W	3	nil	5
AREE_170510_001	0	1	1000	W	2	nil	4

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170510_001	1	0	9999	W	2	nil	4
AREE_170510_002	0	2	900	W	3	nil	4
AREE_170510_002	1	3	900	W	3	nil	4
AREE_170510_003	0	3	900	WNW	3	nil	5
AREE_170510_003	1	4	900	WNW	3	nil	5
AREE_170510_003	2	4	900	WNW	3	nil	5
AREE_170510_003	3	4	900	WNW	3	nil	5
AREE_170515_001	0	10	300	S	3	CLR	2
AREE_170515_001	1	10	300	S	3	CLR	2
AREE_170515_001	2	10	300	S	3	CLR	3
AREE_170515_001	3	10	300	S	3	CHR	2
AREE_170515_002	0	10	400	S	4	ILR	3
AREE_170515_002	1	10	400	S	4	CLR	3
AREE_170515_003	0	10	300	S	4	CHR	2
AREE_170515_003	1	10	300	S	4	CHR	2
AREE_170516_001	0	4	900	N	1	nil	5
AREE_170516_001	1	5	900	NNE	1	nil	5
AREE_170516_002	0	5	900	nil	0	nil	5
AREE_170516_002	1	7	900	E	2	nil	5
AREE_170516_003	0	10	300	SW	4	IHR	2
AREE_170516_003	1	10	400	W	4	nil	4
AREE_170516_003	2	9	500	NW	1	nil	5
AREE_170516_003	3	7	800	NW	2	nil	5
AREE_170517_001	0	7	300	nil	0	ILF	2
AREE_170517_001	1	7	300	nil	0	ILF	2
AREE_170517_002	0	7	400	SW	2	nil	4
AREE_170517_002	1	6	700	S	2	nil	5
AREE_170517_003	0	7	800	S	3	nil	5
AREE_170517_003	1	7	800	SW	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170517_003	2	8	900	SW	3	nil	5
AREE_170517_003	3	8	900	SW	4	nil	5
AREE_170522_001	0	10	600	SSE	6	nil	5
AREE_170522_001	1	8	600	SSE	5	nil	5
AREE_170522_001	2	9	700	S	5	nil	5
AREE_170522_001	3	10	700	S	4	nil	5
AREE_170522_002	0	7	700	S	4	nil	5
AREE_170522_002	1	8	700	S	4	nil	5
AREE_170522_003	0	10	400	S	4	IHR	2
AREE_170522_003	1	10	400	W	4	ILF	3
AREE_170523_001	0	10	900	WSW	3	nil	5
AREE_170523_001	1	10	900	SW	3	nil	5
AREE_170523_001	2	10	900	SW	3	nil	5
AREE_170523_001	3	10	900	SW	4	nil	5
AREE_170523_002	0	10	900	SSW	4	nil	5
AREE_170523_002	1	10	700	SSW	4	nil	4
AREE_170523_003	0	10	700	SSW	3	nil	4
AREE_170523_003	1	10	700	SW	3	nil	4
AREE_170529_001	0	10	500	ESE	3	nil	4
AREE_170529_001	1	10	500	SE	3	nil	4
AREE_170529_001	2	10	400	SE	3	ILR	2
AREE_170529_002	0	10	300	SE	3	ILR	1
AREE_170529_002	1	10	300	SE	3	ILR	1
AREE_170529_002	2	10	300	SE	3	CLR	1
AREE_170529_003	0	10	400	SE	2	CLR	2
AREE_170529_003	1	10	400	SE	3	CLR	2
AREE_170529_003	2	10	500	SE	3	nil	3
AREE_170530_001	0	10	500	WNW	4	nil	5
AREE_170530_001	1	8	700	WNW	5	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170530_001	2	6	900	WNW	4	nil	5
AREE_170530_002	0	5	600	S	2	nil	5
AREE_170530_002	1	8	700	SW	2	nil	5
AREE_170530_002	2	9	700	SW	3	nil	5
AREE_170530_003	0	9	700	SW	3	nil	5
AREE_170530_003	1	10	600	SW	3	nil	5
AREE_170530_003	2	10	400	SW	3	ILR	3
AREE_170530_004	0	10	300	SW	3	ILR	1
AREE_170530_004	1	10	400	W	3	IHR	2
AREE_170530_004	2	10	400	WNW	4	ILR	4
AREE_170605_001	0	8	800	S	4	nil	5
AREE_170605_001	1	7	900	S	4	nil	5
AREE_170605_001	2	8	900	SW	4	nil	5
AREE_170605_001	3	9	900	SW	3	nil	5
AREE_170605_002	0	10	700	SW	3	nil	5
AREE_170605_002	1	10	700	W	3	nil	5
AREE_170605_003	0	10	700	SW	3	nil	5
AREE_170605_003	1	10	700	SSE	3	nil	5
AREE_170606_001	0	10	500	WNW	6	CLR	3
AREE_170606_001	1	10	500	WNW	5	CLR	3
AREE_170606_002	0	10	500	WNW	5	nil	4
AREE_170606_002	1	10	600	WNW	5	nil	4
AREE_170606_003	0	10	500	WNW	5	CLR	3
AREE_170606_003	1	10	500	WNW	5	CLR	3
AREE_170606_003	2	10	500	WNW	6	CLR	3
AREE_170606_003	3	10	500	WNW	6	CLR	3
AREE_170612_001	0	10	600	W	4	nil	5
AREE_170612_001	1	10	600	W	4	nil	5
AREE_170612_001	2	10	700	W	4	ILR	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170612_001	3	8	800	W	4	nil	5
AREE_170612_002	0	8	800	W	4	nil	5
AREE_170612_002	1	10	800	W	3	nil	5
AREE_170612_003	0	10	800	W	3	nil	5
AREE_170612_003	1	9	700	W	3	nil	5
AREE_170613_001	0	10	700	SW	4	nil	5
AREE_170613_001	1	10	600	SW	4	ILR	5
AREE_170613_001	2	9	600	SW	4	ILR	5
AREE_170613_002	0	10	500	SW	3	IHR	5
AREE_170613_002	1	10	500	SW	3	ILR	5
AREE_170613_002	2	10	500	SW	3	ILR	5
AREE_170613_003	0	9	600	SW	4	nil	5
AREE_170613_003	1	8	700	SW	4	nil	5
AREE_170613_003	2	9	800	SW	4	nil	5
AREE_170620_001	0	6	1000	NW	3	nil	5
AREE_170620_001	1	6	1000	NW	3	nil	5
AREE_170620_001	2	4	900	NW	3	nil	5
AREE_170620_002	0	2	1000	NW	3	nil	5
AREE_170620_002	1	3	1000	NW	3	nil	5
AREE_170620_002	2	3	1000	NW	3	nil	5
AREE_170620_003	0	3	1000	NW	3	nil	5
AREE_170620_003	1	4	1000	NW	3	nil	5
AREE_170620_003	2	4	1000	NW	3	nil	5
AREE_170620_004	0	4	1000	NW	2	nil	5
AREE_170620_004	1	5	1000	NW	2	nil	5
AREE_170620_004	2	5	1000	NW	3	nil	5
AREE_170621_001	0	10	300	SE	4	CLF	2
AREE_170621_001	1	10	300	SE	4	CLF	2
AREE_170621_001	2	10	400	SE	4	CLF	2

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170621_002	0	10	400	SE	4	nil	3
AREE_170621_002	1	10	500	SE	4	nil	3
AREE_170621_002	2	10	500	SE	4	nil	3
AREE_170621_003	0	10	600	S	3	nil	4
AREE_170621_003	1	10	600	S	3	nil	4
AREE_170621_003	2	10	400	S	3	ILR	2
AREE_170621_004	0	10	300	S	3	ILR	1
AREE_170621_004	1	10	300	S	3	ILR	1
AREE_170621_004	2	10	300	S	4	ILR	1
AREE_170626_001	0	10	500	WNW	3	nil	5
AREE_170626_001	1	10	600	WNW	2	nil	5
AREE_170626_001	2	9	600	WNW	3	nil	5
AREE_170626_002	0	9	700	WNW	3	nil	5
AREE_170626_002	1	9	800	WNW	3	nil	5
AREE_170626_002	2	9	900	WNW	3	nil	5
AREE_170626_003	0	8	800	WNW	3	nil	5
AREE_170626_003	1	8	900	WNW	3	nil	5
AREE_170626_003	2	9	900	WNW	1	nil	5
AREE_170626_004	0	10	400	WNW	3	nil	5
AREE_170626_004	1	10	400	WNW	3	nil	5
AREE_170626_004	2	10	400	WNW	3	ILR	5
AREE_170627_001	0	10	600	SE	3	CLR	4
AREE_170627_001	1	10	500	SE	3	CLR	4
AREE_170627_001	2	10	500	ESE	3	CLR	4
AREE_170627_002	0	10	500	ESE	3	CLR	4
AREE_170627_002	1	10	500	ESE	3	CLR	4
AREE_170627_002	2	10	400	ESE	3	ILR	2
AREE_170627_003	0	10	400	ESE	3	ILR	2
AREE_170627_003	1	10	400	ESE	4	ILR	2

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170627_003	2	10	400	SE	4	ILR	2
AREE_170627_004	0	10	400	SE	4	ILR	2
AREE_170627_004	1	10	300	SE	5	ILR	1
AREE_170627_004	2	10	300	ESE	4	CLR	1
AREE_170703_001	0	8	800	NW	4	nil	5
AREE_170703_001	1	8	900	NW	4	nil	5
AREE_170703_001	2	8	900	NW	4	nil	5
AREE_170703_001	3	6	900	NW	4	nil	5
AREE_170703_002	0	9	500	NW	3	nil	5
AREE_170703_002	1	10	500	NW	3	nil	5
AREE_170703_003	0	7	800	NW	4	nil	5
AREE_170703_003	1	7	900	NW	4	nil	5
AREE_170704_001	0	10	400	ESE	3	CLR	2
AREE_170704_001	1	10	400	ESE	3	CLR	2
AREE_170704_002	0	10	400	SE	3	CLR	2
AREE_170704_002	1	10	500	SE	3	CLR	2
AREE_170704_003	0	10	500	SE	3	CLR	3
AREE_170704_003	1	10	500	SE	3	CLR	3
AREE_170704_003	2	10	400	SE	3	CLR	2
AREE_170705_001	0	10	700	nil	0	nil	5
AREE_170705_001	1	10	700	nil	0	nil	5
AREE_170705_002	0	10	700	nil	0	nil	5
AREE_170705_002	1	9	700	ESE	1	nil	5
AREE_170705_003	0	9	700	SE	2	nil	5
AREE_170705_003	1	8	700	SE	3	nil	5
AREE_170705_003	2	9	700	S	2	nil	5
AREE_170705_003	3	9	700	W	2	nil	5
AREE_170706_001	0	10	400	S	3	CLR	2
AREE_170706_001	1	10	400	S	3	IHR	2

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170706_001	2	10	500	S	3	nil	4
AREE_170706_002	0	10	400	S	2	ILR	2
AREE_170706_002	1	10	400	S	2	CLR	1
AREE_170706_002	2	10	400	S	2	ILR	2
AREE_170724_001	0	1	900	WNW	4	nil	5
AREE_170724_001	1	1	900	WNW	4	nil	5
AREE_170724_002	0	1	900	WNW	4	nil	5
AREE_170724_002	1	2	900	WNW	4	nil	5
AREE_170724_003	0	3	900	NW	3	nil	5
AREE_170724_003	1	3	900	NW	4	nil	5
AREE_170724_003	2	3	900	NW	4	nil	5
AREE_170724_004	0	4	900	NW	4	nil	5
AREE_170724_004	1	4	900	NW	5	nil	5
AREE_170724_004	2	3	900	NW	5	nil	5
AREE_170724_005	0	3	900	NW	5	nil	5
AREE_170724_005	1	1	900	NW	4	nil	5
AREE_170724_005	2	1	900	NW	4	nil	5
AREE_170725_001	0	7	800	W	3	nil	5
AREE_170725_001	1	8	800	W	2	nil	5
AREE_170725_001	2	8	800	W	2	nil	5
AREE_170725_002	0	8	800	NW	1	nil	5
AREE_170725_003	0	8	700	NE	1	nil	5
AREE_170725_003	1	7	600	S	2	nil	5
AREE_170725_004	0	9	700	NW	2	nil	5
AREE_170725_004	1	8	700	NW	2	nil	5
AREE_170725_004	2	8	800	W	3	nil	5
AREE_170725_005	0	8	800	W	3	nil	5
AREE_170725_005	1	7	800	W	3	nil	5
AREE_170725_005	2	7	800	WSW	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170726_001	0	10	600	W	3	nil	5
AREE_170726_001	1	8	700	W	3	nil	5
AREE_170726_001	2	7	700	W	3	nil	5
AREE_170726_002	0	7	900	WNW	3	nil	5
AREE_170726_002	1	7	900	WNW	3	nil	5
AREE_170726_002	2	8	900	WNW	3	nil	5
AREE_170726_003	0	8	900	W	3	nil	5
AREE_170726_004	0	9	900	W	3	nil	5
AREE_170726_004	1	9	800	W	3	ILR	4
AREE_170726_005	0	10	400	W	4	IHR	2
AREE_170726_005	1	10	400	W	3	ILR	2
AREE_170726_005	2	10	500	W	3	nil	3
AREE_170728_001	0	7	700	SW	4	nil	5
AREE_170728_001	1	7	700	SW	4	nil	5
AREE_170728_001	2	8	800	SW	4	nil	5
AREE_170728_002	0	8	800	SW	4	nil	5
AREE_170728_002	1	8	800	SW	4	nil	5
AREE_170728_002	2	9	800	SW	5	nil	5
AREE_170728_003	0	8	800	SW	4	nil	5
AREE_170728_003	1	9	700	SW	4	nil	5
AREE_170728_003	2	9	700	SW	3	nil	5
AREE_170728_004	0	9	700	SW	3	nil	5
AREE_170728_005	0	10	700	SW	4	IHR	5
AREE_170728_005	1	7	700	SW	3	nil	5
AREE_170801_001	0	8	700	SW	4	nil	5
AREE_170801_001	1	8	700	SW	3	nil	5
AREE_170801_002	0	9	500	SSW	3	ILR	5
AREE_170801_002	1	9	500	SSW	3	nil	5
AREE_170801_003	0	9	700	SW	4	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170801_003	1	10	600	SW	4	ILR	4
AREE_170801_003	2	10	600	SW	4	CLR	3
AREE_170801_003	3	10	600	SW	3	ILR	3
AREE_170802_001	0	10	400	ESE	4	ILR	2
AREE_170802_001	1	10	400	ESE	4	CLR	2
AREE_170802_002	0	10	300	SE	4	CLR	2
AREE_170802_002	1	10	300	SE	4	CLR	2
AREE_170802_002	2	10	400	SE	4	ILR	3
AREE_170802_003	0	9	500	SE	4	nil	4
AREE_170802_003	1	10	500	SE	4	nil	4
AREE_170804_001	0	5	800	WNW	5	nil	5
AREE_170804_001	1	5	800	WNW	5	nil	5
AREE_170804_002	0	5	800	WNW	4	nil	5
AREE_170804_002	1	4	700	W	3	nil	5
AREE_170807_001	0	6	600	WSW	3	nil	5
AREE_170807_001	1	5	600	WSW	3	nil	5
AREE_170807_002	0	5	600	WSW	2	nil	5
AREE_170807_002	1	7	700	WSW	3	nil	5
AREE_170807_003	0	10	700	WSW	3	nil	5
AREE_170807_003	1	9	700	WSW	3	nil	5
AREE_170807_003	2	8	700	WSW	3	nil	5
AREE_170808_001	0	4	900	W	1	ILF	5
AREE_170808_001	1	5	900	WNW	3	nil	5
AREE_170808_002	0	5	900	WNW	3	nil	5
AREE_170808_002	1	6	900	NW	3	nil	5
AREE_170808_003	0	6	900	NW	3	nil	5
AREE_170808_003	1	5	900	NW	3	nil	5
AREE_170808_003	2	5	900	NW	4	nil	5
AREE_170811_001	0	10	400	SW	4	ILR	3

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_170811_001	1	10	400	SW	4	IHR	2
AREE_170811_001	2	10	400	SW	4	nil	3
AREE_170811_003	0	10	400	SW	4	CLR	2
AREE_170811_003	1	10	400	SW	4	ILR	2
AREE_170814_001	0	10	400	SW	3	CLR	2
AREE_170814_001	1	10	400	S	3	CLR	2
AREE_170814_002	0	10	400	S	3	CLR	2
AREE_170814_002	1	10	400	S	3	CLR	2
AREE_170814_003	0	10	400	SSE	3	CLR	2
AREE_170814_003	1	10	400	SSE	3	ILR	3
AREE_170814_003	2	10	400	SSE	4	nil	3
AREE_180412_001	0	8	1500	E	2	nil	5
AREE_180412_001	1	8	1500	E	4	nil	5
AREE_180412_001	2	8	1500	E	2	nil	5
AREE_180412_001	3	8	1500	E	2	nil	5
AREE_180412_002	0	9	9999	E	4	nil	20
AREE_180412_002	1	9	9999	E	4	nil	20
AREE_180412_002	2	9	9999	E	4	nil	20
AREE_180412_002	3	8	9999	E	3	nil	20
AREE_180413_001	0	10	900	nil	0	ILR	2
AREE_180413_001	1	10	700	nil	0	ILR	2
AREE_180413_001	2	10	100	nil	0	CHR	0.3
AREE_180413_002	0	10	2000	NE	1	CLR	3
AREE_180413_002	1	10	2000	NE	1	nil	3
AREE_180413_002	2	10	2000	NE	1	nil	3
AREE_180413_002	3	10	2000	NE	1	nil	3
AREE_180413_003	0	10	3000	NNE	1	nil	2
AREE_180413_003	1	10	3000	NNE	2	nil	2
AREE_180413_003	2	10	3000	NNE	2	nil	2

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180413_003	3	10	3000	NNE	1	ILR	2
AREE_180428_001	0	3	3000	NNW	1	nil	2
AREE_180428_001	1	4	3000	NNW	1	nil	2
AREE_180428_001	2	7	3000	NNW	2	nil	2
AREE_180428_001	3	9	3000	N	3	nil	2
AREE_180428_002	0	1	3000	N	1	nil	2
AREE_180428_002	1	3	3000	N	1	nil	2
AREE_180428_002	2	3	3000	N	1	nil	2
AREE_180429_001	0	3	3000	ESE	1	nil	2
AREE_180429_001	1	4	3000	ESE	2	nil	2
AREE_180429_001	2	5	3000	ESE	2	nil	2
AREE_180429_001	3	5	3000	E	2	nil	2
AREE_180429_002	0	4	3000	E	2	nil	2
AREE_180429_002	1	4	3000	NE	3	nil	2
AREE_180429_002	2	6	3000	E	3	nil	2
AREE_180429_002	3	9	3000	N	3	ILR	2
AREE_180429_003	0	9	3000	N	3	ILR	2
AREE_180429_003	1	9	3000	N	3	nil	2
AREE_180429_003	2	10	3000	N	3	ILR	2
AREE_180429_003	3	9	3000	N	3	ILR	2
AREE_180429_005	0	5	3000	NW	3	nil	20
AREE_180429_005	1	5	3000	NW	3	nil	20
AREE_180429_005	2	7	3000	W	3	nil	20
AREE_180429_005	3	5	3000	NW	2	nil	20
AREE_180430_001	0	0	9999	N	1	nil	2
AREE_180430_001	1	0	9999	N	1	nil	2
AREE_180430_001	2	1	3000	NW	2	nil	2
AREE_180430_001	3	2	3000	N	3	nil	2
AREE_180430_002	0	3	3000	NNE	3	nil	2

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180430_002	1	3	3000	NNE	3	nil	2
AREE_180430_002	2	4	3000	NNW	4	nil	2
AREE_180430_002	3	5	3000	NW	5	nil	2
AREE_180430_004	0	2	3000	NW	4	nil	20
AREE_180430_004	1	2	3000	NW	3	nil	20
AREE_180430_004	2	2	3000	NW	4	nil	20
AREE_180430_004	3	3	3000	WNW	4	nil	20
AREE_180501_001	0	10	1000	SE	4	CHR	2
AREE_180501_001	1	10	1000	SE	5	CHR	2
AREE_180501_001	2	10	1000	SE	5	CHR	2
AREE_180501_001	3	10	1000	SE	6	CHR	2
AREE_180501_002	0	10	2000	SE	4	CLR	2
AREE_180501_002	1	10	2000	SE	4	CLR	2
AREE_180501_002	2	10	2000	SE	5	CHR	2
AREE_180501_002	3	10	1000	SE	6	CHR	2
AREE_180501_003	0	10	1000	SSW	3	CLR	2
AREE_180501_003	1	10	1000	SSW	3	CLR	2
AREE_180501_003	2	10	1000	SSW	2	CLR	2
AREE_180501_003	3	10	1000	SSW	3	CLR	1.5
AREE_180501_004	0	10	1000	NW	4	CLR	3
AREE_180501_004	1	10	1000	NW	4	CHR	3
AREE_180501_004	2	10	1000	NW	5	CHR	3
AREE_180501_004	3	10	1000	NW	5	CHR	3
AREE_180502_001	0	7	1200	W	1	nil	5
AREE_180502_001	1	8	1200	W	2	nil	5
AREE_180502_001	2	6	1500	WNW	2	nil	5
AREE_180502_001	3	7	1500	WNW	1	nil	5
AREE_180502_002	0	7	3000	WNW	4	nil	2
AREE_180502_002	1	6	3000	W	4	nil	2

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180502_002	2	5	3000	W	4	nil	2
AREE_180502_002	3	6	3000	W	4	nil	2
AREE_180502_003	0	6	1500	N	2	nil	3
AREE_180502_003	1	4	1500	N	3	nil	3
AREE_180502_003	2	2	3000	N	3	nil	3
AREE_180502_003	3	4	3000	N	3	nil	3
AREE_180502_004	0	8	2000	NW	1	nil	5
AREE_180502_004	1	4	3000	NW	4	nil	5
AREE_180502_004	2	2	3000	NW	4	nil	5
AREE_180502_004	3	4	3000	NW	4	nil	5
AREE_180502_005	0	6	3000	NW	4	nil	20
AREE_180502_005	1	8	3000	NW	4	nil	20
AREE_180502_005	2	8	3000	W	5	nil	20
AREE_180502_005	3	6	3000	NW	4	nil	20
AREE_180503_001	0	10	2000	N	3	ILR	3
AREE_180503_001	1	10	2000	N	3	ILR	3
AREE_180503_001	2	10	1000	NW	4	IHR	3
AREE_180503_001	3	10	1000	NW	4	ILR	3
AREE_180503_002	0	10	3000	W	2	nil	2
AREE_180503_002	1	10	3000	W	2	ILR	2
AREE_180503_002	2	10	3000	W	2	CLR	2
AREE_180503_002	3	10	3000	W	2	nil	2
AREE_180503_003	0	10	3000	W	3	nil	2
AREE_180503_003	1	9	3000	W	3	nil	2
AREE_180503_003	2	10	3000	W	3	nil	2
AREE_180503_003	3	10	3000	W	3	nil	2
AREE_180503_004	0	10	2000	NW	3	CLR	3
AREE_180503_004	1	10	2000	N	1	CLR	3
AREE_180503_004	2	10	2000	N	1	nil	3

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180503_004	3	8	2000	N	1	nil	3
AREE_180503_005	0	10	2000	SW	1	nil	3
AREE_180503_005	1	8	2000	SW	1	nil	3
AREE_180503_005	2	10	2000	SW	1	nil	3
AREE_180503_005	3	8	2000	S	2	nil	3
AREE_180504_001	0	10	2000	SE	0	nil	20
AREE_180504_001	1	9	2000	SE	1	nil	20
AREE_180504_001	2	9	2000	SE	2	nil	20
AREE_180504_001	3	9	2000	SE	2	nil	20
AREE_180504_002	0	10	1500	nil	0	nil	3
AREE_180504_002	1	10	1500	nil	0	nil	3
AREE_180504_002	2	6	2000	W	3	nil	3
AREE_180504_002	3	10	2000	W	2	nil	3
AREE_180504_003	0	8	2000	SW	2	nil	3
AREE_180504_003	1	10	2000	SW	1	nil	3
AREE_180504_003	2	10	2000	SW	3	nil	3
AREE_180504_003	3	10	2000	SW	3	nil	3
AREE_180504_004	0	10	1000	S	2	nil	20
AREE_180504_004	1	10	1000	S	2	nil	20
AREE_180504_004	2	10	1000	S	3	nil	20
AREE_180504_004	3	10	1000	S	3	nil	20
AREE_180521_001	0	10	2000	NW	2	nil	20
AREE_180521_001	1	10	2000	NW	3	nil	20
AREE_180521_001	2	10	2000	NW	3	nil	20
AREE_180521_001	3	10	2000	NW	3	nil	20
AREE_180521_002	0	10	2000	NW	3	nil	20
AREE_180521_002	1	10	2000	NW	3	nil	20
AREE_180521_002	2	10	2000	NW	3	nil	20
AREE_180521_002	3	10	2000	NW	3	nil	20

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180522_001	0	10	3000	nil	0	nil	20
AREE_180522_001	1	10	3000	nil	0	nil	20
AREE_180522_001	2	9	3000	nil	0	nil	20
AREE_180522_001	3	8	3000	nil	0	nil	20
AREE_180522_002	0	8	3000	nil	0	nil	20
AREE_180522_002	1	5	3000	SE	1	nil	20
AREE_180522_002	2	3	3000	SE	2	nil	20
AREE_180522_002	3	4	3000	SE	2	nil	20
AREE_180522_003	0	4	3000	NW	3	nil	20
AREE_180522_003	1	2	3000	NW	2	nil	20
AREE_180522_003	2	3	3000	SW	2	nil	20
AREE_180522_003	3	3	3000	SW	2	nil	20
AREE_180523_001	0	3	3000	NW	2	nil	20
AREE_180523_001	1	3	3000	NW	3	nil	20
AREE_180523_001	2	3	3000	W	3	nil	20
AREE_180523_001	3	2	3000	W	3	nil	20
AREE_180524_001	0	0	9999	SE	1	nil	20
AREE_180524_001	1	0	9999	SE	1	nil	20
AREE_180524_001	2	0	9999	nil	0	nil	20
AREE_180524_001	3	0	9999	nil	0	nil	20
AREE_180524_002	0	3	3000	NW	1	nil	20
AREE_180524_002	1	3	3000	NW	2	nil	20
AREE_180524_002	2	4	3000	N	1	nil	20
AREE_180524_002	3	5	3000	N	1	nil	20
AREE_180525_001	0	3	3000	N	2	nil	20
AREE_180525_001	1	4	3000	N	3	nil	20
AREE_180525_001	2	5	3000	N	4	nil	20
AREE_180525_001	3	4	3000	N	2	nil	20
AREE_180525_002	0	5	3000	NE	3	nil	20

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180525_002	1	6	3000	NE	3	nil	20
AREE_180525_002	2	9	3000	N	2	nil	20
AREE_180525_002	3	9	3000	N	3	nil	20
AREE_180525_003	0	2	3000	NE	1	nil	20
AREE_180525_003	1	2	3000	NE	1	nil	20
AREE_180525_003	2	2	3000	NE	2	nil	20
AREE_180525_003	3	3	3000	N	2	nil	20
AREE_180611_001	0	9	3000	NW	3	nil	20
AREE_180611_001	1	9	3000	NW	2	nil	20
AREE_180611_001	2	8	3000	NW	1	nil	10
AREE_180611_001	3	8	3000	NW	1	nil	10
AREE_180611_002	0	8	3000	N	2	nil	20
AREE_180611_002	1	8	3000	N	2	nil	20
AREE_180611_002	2	6	3000	NW	2	nil	20
AREE_180611_002	3	6	3000	W	2	nil	20
AREE_180612_001	0	4	3000	NW	3	nil	20
AREE_180612_001	1	1	3000	NW	2	nil	20
AREE_180612_001	2	1	3000	NW	1	nil	10
AREE_180612_001	3	2	3000	NW	1	nil	10
AREE_180612_002	0	6	3000	NW	2	nil	20
AREE_180612_002	1	6	3000	NW	2	nil	20
AREE_180612_002	2	9	3000	NW	2	nil	20
AREE_180612_002	3	6	3000	NW	2	nil	20
AREE_180613_001	0	8	3000	S	2	nil	20
AREE_180613_001	1	10	3000	S	3	nil	20
AREE_180613_001	2	10	3000	S	3	ILR	20
AREE_180613_001	3	10	3000	S	4	CLR	2
AREE_180613_002	0	10	2000	SW	3	IHR	2
AREE_180613_002	1	10	2000	SW	4	CHR	2

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180613_002	2	10	2000	SW	3	IHR	2
AREE_180613_002	3	10	2000	SW	3	CHR	2
AREE_180614_001	0	10	3000	W	4	nil	20
AREE_180614_001	1	10	3000	W	4	nil	20
AREE_180614_001	2	6	3000	W	4	nil	20
AREE_180614_001	3	8	3000	W	4	nil	20
AREE_180614_002	0	5	3000	W	2	nil	20
AREE_180614_002	1	5	3000	W	2	nil	20
AREE_180614_002	2	8	3000	W	2	nil	10
AREE_180614_002	3	6	3000	SW	1	nil	2
AREE_180615_001	0	10	3000	SW	3	nil	20
AREE_180615_001	1	9	3000	SW	2	nil	20
AREE_180615_001	2	10	3000	SW	2	nil	20
AREE_180615_001	3	10	3000	SW	2	nil	20
AREE_180615_002	0	10	3000	E	1	nil	20
AREE_180615_002	1	9	3000	E	1	nil	20
AREE_180615_002	2	9	3000	SE	1	nil	20
AREE_180615_002	3	10	2000	SE	1	CHR	2
AREE_180705_001	0	4	1000	WNW	5	nil	5
AREE_180705_001	1	3	1000	WNW	4	nil	5
AREE_180705_002	0	3	1000	WNW	4	nil	5
AREE_180705_002	1	4	1000	WNW	3	nil	5
AREE_180705_003	0	5	1000	W	5	nil	5
AREE_180705_003	1	5	1000	W	5	nil	5
AREE_180705_003	2	5	1000	W	5	nil	5
AREE_180705_003	3	5	1000	W	5	nil	5
AREE_180706_001	0	9	900	W	1	nil	5
AREE_180706_001	1	5	1000	W	2	nil	5
AREE_180706_002	0	4	1000	W	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180706_002	1	3	1000	W	2	nil	5
AREE_180706_003	0	3	1000	W	3	nil	5
AREE_180706_003	1	6	1000	W	3	nil	5
AREE_180706_003	2	5	1000	W	3	nil	5
AREE_180706_003	3	8	1000	W	3	nil	5
AREE_180708_001	0	1	3000	W	1	nil	2
AREE_180708_001	1	1	3000	W	1	nil	2
AREE_180708_001	2	1	3000	W	1	nil	2
AREE_180708_001	3	1	3000	W	1	nil	2
AREE_180709_001	0	5	3000	NW	2	nil	2
AREE_180709_001	1	4	3000	NW	2	nil	2
AREE_180709_001	2	3	3000	NW	2	nil	2
AREE_180709_001	3	2	3000	NW	3	nil	2
AREE_180709_002	0	2	3000	NW	3	nil	2
AREE_180709_002	1	2	3000	NW	3	nil	2
AREE_180710_001	0	10	3000	NW	1	nil	2
AREE_180710_001	1	10	3000	NW	1	nil	2
AREE_180710_001	2	10	3000	NW	1	nil	2
AREE_180710_001	3	10	3000	NW	1	nil	2
AREE_180711_001	0	10	3000	W	1	CLR	2
AREE_180711_001	1	10	3000	W	1	CLR	2
AREE_180711_001	2	10	3000	W	0	CLR	2
AREE_180711_001	3	10	3000	W	1	CLR	2
AREE_180711_002	0	8	700	NW	3	nil	5
AREE_180711_002	1	9	500	NW	3	nil	5
AREE_180711_003	0	9	500	NW	3	nil	5
AREE_180711_003	1	9	500	NW	3	nil	5
AREE_180711_004	0	10	300	W	2	nil	5
AREE_180711_004	1	10	200	W	3	ILR	4

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180711_004	2	10	300	W	3	ILR	4
AREE_180711_004	3	8	600	WNW	3	nil	5
AREE_180712_001	0	10	500	NW	3	nil	5
AREE_180712_001	1	10	500	NW	4	nil	5
AREE_180712_001	2	9	500	NW	4	nil	5
AREE_180712_001	3	7	600	NW	3	nil	5
AREE_180712_002	0	7	600	NW	3	nil	5
AREE_180712_002	1	7	600	NW	3	nil	5
AREE_180712_003	0	8	400	NW	3	nil	5
AREE_180712_003	1	10	400	NW	3	nil	5
AREE_180713_001	0	10	600	NW	2	nil	5
AREE_180713_001	1	10	600	NW	2	nil	5
AREE_180713_001	2	10	600	NW	2	nil	5
AREE_180713_001	3	9	700	NW	2	nil	5
AREE_180713_002	0	10	800	W	3	nil	5
AREE_180713_002	1	9	800	W	3	nil	5
AREE_180713_003	0	8	800	W	2	nil	5
AREE_180713_003	1	4	800	W	2	nil	5
AREE_180726_001	0	4	900	SSE	5	nil	5
AREE_180726_001	1	4	900	SSE	5	nil	5
AREE_180726_001	2	3	900	SSE	5	nil	5
AREE_180726_001	3	3	900	SSE	5	nil	5
AREE_180726_002	0	2	1000	SE	3	nil	5
AREE_180726_002	1	3	500	SE	3	nil	5
AREE_180726_003	1	4	600	SSE	4	nil	5
AREE_180726_003	0	4	600	SSE	4	nil	5
AREE_180727_001	0	10	700	SE	3	nil	5
AREE_180727_001	1	10	500	SE	3	ILR	2
AREE_180727_001	2	10	400	SE	3	CLR	1

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180727_001	3	10	500	SE	3	nil	4
AREE_180727_002	0	9	900	SSE	3	nil	5
AREE_180727_002	1	10	900	SSE	3	nil	5
AREE_180727_003	0	10	900	SE	3	nil	5
AREE_180727_003	1	10	800	SE	3	ILR	4
AREE_180801_001	0	10	700	S	3	nil	5
AREE_180801_001	1	10	500	S	3	IHR	3
AREE_180801_001	2	10	500	S	4	IHR	3
AREE_180801_001	3	10	500	S	3	CLR	3
AREE_180801_002	0	10	300	S	5	CHR	2
AREE_180801_002	1	10	400	S	5	CHR	2
AREE_180801_003	0	10	300	S	5	CHR	2
AREE_180801_003	1	10	300	S	5	CHR	2
AREE_180802_001	0	10	400	SW	4	nil	4
AREE_180802_001	1	10	400	SW	4	nil	4
AREE_180802_002	0	10	400	SW	4	nil	4
AREE_180802_002	1	10	400	SW	4	ILR	3
AREE_180802_003	0	10	400	SSW	3	nil	3
AREE_180802_003	1	10	400	SSW	3	ILR	2
AREE_180802_003	2	10	300	SW	3	ILR	2
AREE_180802_003	3	10	300	SW	4	nil	4
AREE_180803_001	0	10	400	NW	3	nil	5
AREE_180803_001	1	10	400	NW	3	nil	5
AREE_180803_002	0	10	500	NW	3	nil	5
AREE_180803_002	1	8	600	NW	4	nil	5
AREE_180803_003	0	10	500	NW	3	nil	5
AREE_180803_003	1	9	500	NW	3	NIL	5
AREE_180803_003	2	10	400	NW	3	NIL	5
AREE_180803_003	3	10	300	NW	3	NIL	4

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180810_001	0	8	800	W	3	NIL	5
AREE_180810_001	1	8	800	W	3	NIL	5
AREE_180810_001	2	7	900	WNW	4	NIL	5
AREE_180810_001	3	7	900	WNW	4	NIL	5
AREE_180810_002	0	8	500	SW	1	nil	5
AREE_180810_002	1	9	500	SW	2	nil	5
AREE_180810_003	0	8	500	SW	2	nil	5
AREE_180810_003	1	9	600	SW	3	nil	5
AREE_180813_001	0	10	200	NW	3	CLF	0.5
AREE_180813_001	1	10	200	NW	3	CLF	0.5
AREE_180813_002	0	10	300	NW	3	ILR	0.5
AREE_180813_002	1	10	300	NW	3	CLF	0.5
AREE_180813_003	0	10	300	NW	3	CLF	0.5
AREE_180813_003	1	10	300	NW	3	ILR	0.5
AREE_180813_003	2	10	200	NW	4	CLF	0.2
AREE_180813_003	3	10	200	NW	4	CLF	0.2
AREE_180813_004	0	10	500	W	2	nil	5
AREE_180813_004	1	10	500	W	2	ILR	4
AREE_180814_001	0	10	400	W	3	nil	5
AREE_180814_001	1	10	300	W	3	ILR	3
AREE_180814_001	2	10	300	W	3	CLR	2
AREE_180814_001	3	10	400	SW	4	nil	5
AREE_180814_002	0	10	400	W	2	nil	4
AREE_180814_002	1	10	400	W	2	nil	5
AREE_180814_003	0	10	400	W	3	nil	5
AREE_180814_003	1	9	400	W	3	nil	5
AREE_180828_001	0	10	500	SSW	2	nil	4
AREE_180828_001	1	10	500	S	2	nil	5
AREE_180828_002	0	10	500	S	3	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180828_002	1	9	600	SW	3	nil	5
AREE_180828_003	0	10	600	SW	3	nil	5
AREE_180828_003	1	10	600	S	4	nil	5
AREE_180828_003	2	10	600	SE	5	nil	5
AREE_180828_003	3	9	600	SE	5	nil	5
AREE_180912_001	0	8	900	W	5	nil	5
AREE_180912_001	1	7	900	W	5	NIL	5
AREE_180912_001	2	5	900	W	5	NIL	5
AREE_180912_001	3	6	900	W	5	NIL	5
AREE_180912_002	0	9	600	W	4	nil	5
AREE_180912_002	1	7	900	W	4	ILR	5
AREE_180912_003	0	6	900	W	4	nil	5
AREE_180912_003	1	6	900	W	3	nil	5
AREE_180913_001	0	10	500	W	3	nil	5
AREE_180913_001	1	10	500	W	3	nil	1
AREE_180913_002	0	10	500	W	4	nil	5
AREE_180913_002	1	10	500	W	5	nil	5
AREE_180913_002	2	10	500	W	5	nil	5
AREE_180913_002	3	10	300	W	3	ILR	2
AREE_180914_001	0	8	700	WSW	3	nil	5
AREE_180914_001	1	9	700	WSW	3	nil	5
AREE_180914_001	2	10	600	WSW	4	ILR	5
AREE_180914_001	3	10	600	W	4	ILR	5
AREE_180914_002	0	10	300	W	4	IHR	1
AREE_180914_002	1	10	400	W	3	IHR	3
AREE_180914_003	0	9	500	W	3	nil	5
AREE_180914_003	1	8	500	W	3	nil	5
AREE_180920_001	0	3	600	WSW	3	nil	5
AREE_180920_001	1	5	600	WSW	3	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_180920_002	0	7	600	WSW	3	nil	5
AREE_180920_002	1	7	700	SW	4	nil	5
AREE_180920_003	0	7	700	SW	4	nil	5
AREE_180920_003	1	9	800	SW	4	nil	5
AREE_180920_003	2	10	900	SW	3	nil	5
AREE_180920_003	3	10	800	SW	3	nil	5
AREE_180921_001	0	5	600	WSW	4	nil	5
AREE_180921_001	1	6	600	WSW	4	nil	5
AREE_180921_003	0	10	500	WSW	5	nil	5
AREE_180921_003	1	10	500	WNW	5	IHR	3
AREE_180921_003	2	9	500	NW	5	nil	5
AREE_180921_003	3	9	600	NW	5	IHH	5
AREE_180926_001	0	10	400	SW	4	nil	3
AREE_180926_001	1	10	500	SW	4	nil	5
AREE_180926_001	2	10	500	SW	3	nil	5
AREE_180926_001	3	9	500	SW	3	nil	5
AREE_180926_002	0	10	400	W	3	nil	3
AREE_180926_002	1	10	400	W	4	nil	3
AREE_180926_003	0	10	300	W	4	ILR	2
AREE_180926_003	1	10	300	WSW	4	ILR	2
AREE_180927_002	0	2	900	W	3	nil	5
AREE_180927_002	1	7	600	WNW	2	nil	5
AREE_180927_003	0	7	700	WNW	3	nil	5
AREE_180927_003	1	9	700	WNW	4	nil	5
AREE_181120_001	0	6	800	ENE	2	nil	5
AREE_181120_001	1	5	900	E	3	nil	5
AREE_181120_001	2	6	900	E	4	nil	5
AREE_181120_001	3	9	900	E	4	nil	5
AREE_181120_002	0	8	900	E	4	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_181120_002	1	8	800	E	4	ILR	5
AREE_181120_002	2	8	900	NE	3	nil	5
AREE_181120_003	0	8	900	ENE	3	nil	5
AREE_181120_003	1	7	800	ENE	3	nil	5
AREE_181121_001	0	9	600	SE	5	nil	5
AREE_181121_001	1	10	600	SE	5	IHR	4
AREE_181121_001	2	9	500	SE	5	IHS	3
AREE_181121_002	0	8	700	SE	4	nil	5
AREE_181121_002	1	9	700	SE	4	nil	3
AREE_181121_003	0	6	600	ESE	4	nil	5
AREE_181121_003	1	6	600	ESE	4	nil	5
AREE_181121_003	2	8	600	SE	5	ILR	5
AREE_181121_003	3	9	600	SE	5	ILR	5
AREE_181122_001	0	0	0	E	1	nil	10
AREE_181122_001	1	0	0	E	1	nil	10
AREE_181122_001	2	0	0	E	1	nil	10
AREE_181122_001	3	1	1000	E	1	nil	10
AREE_181122_002	0	2	1000	E	1	nil	10
AREE_181122_002	1	5	1000	E	3	nil	10
AREE_181122_002	2	7	1000	E	3	nil	10
AREE_181122_002	3	10	1000	E	3	nil	10
AREE_181123_001	0	5	800	E	3	nil	10
AREE_181123_001	1	6	800	E	3	nil	10
AREE_181123_001	2	5	800	E	3	nil	10
AREE_181123_001	3	5	800	E	3	nil	10
AREE_181123_002	0	10	600	E	1	nil	10
AREE_181123_002	1	10	600	E	1	nil	10
AREE_181123_002	2	10	600	E	2	nil	10
AREE_181123_002	3	10	600	E	3	nil	10

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_181129_001	0	10	400	W	4	CLR	2
AREE_181129_001	1	10	500	W	4	ILR	4
AREE_181129_001	2	9	500	SW	4	nil	5
AREE_181129_002	0	10	300	NNW	3	CLR	2
AREE_181129_002	1	10	300	NW	3	CLR	2
AREE_181129_002	2	10	300	NW	4	CHR	1
AREE_181129_003	0	9	500	SW	5	nil	5
AREE_181129_003	1	9	500	SW	5	nil	4
AREE_181129_004	0	9	500	SW	5	nil	5
AREE_181129_004	1	8	500	S	5	nil	4
AREE_181130_001	0	9	600	SW	5	nil	5
AREE_181130_001	1	8	600	SW	5	nil	5
AREE_181130_001	2	6	700	SW	5	nil	5
AREE_181130_002	0	9	700	S	5	ILR	4
AREE_181130_002	1	10	600	S	3	ILR	4
AREE_181130_003	0	10	500	S	3	ILR	3
AREE_181130_003	1	8	500	SW	3	ILR	3
AREE_181130_004	0	6	700	SW	5	nil	5
AREE_181130_004	1	8	700	SW	5	nil	5
AREE_181130_004	2	8	700	SW	5	ILR	5
AREE_181212_001	0	10	300	SSE	5	CLF	2
AREE_181212_001	1	10	300	SSE	5	CLF	2
AREE_181212_001	2	10	300	SE	4	CLR	1
AREE_181212_001	3	10	400	SE	4	CLF	2
AREE_181212_002	0	10	300	SE	3	ILR	1
AREE_181212_002	1	10	300	SE	3	CLR	1
AREE_181212_003	0	10	300	SE	3	CLR	1
AREE_181212_003	1	10	300	SE	3	CLR	1
AREE_181212_003	2	10	400	SE	5	CLF	1

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_181213_001	0	10	800	SE	6	nil	5
AREE_181213_001	1	9	900	SE	6	nil	5
AREE_181213_002	0	8	900	SE	6	nil	5
AREE_181213_002	1	7	900	SE	6	nil	5
AREE_181214_001	0	9	700	SSE	4	nil	3
AREE_181214_001	1	8	700	SSE	5	nil	4
AREE_181214_002	0	8	600	SSE	5	nil	4
AREE_181214_002	1	8	600	SSE	5	nil	4
AREE_181214_002	2	7	700	SSE	6	nil	5
AREE_181214_003	0	5	700	SE	6	nil	5
AREE_181214_003	1	6	600	SE	6	nil	5
AREE_181214_003	2	5	600	SE	5	nil	5
AREE_181214_003	3	6	600	SE	5	nil	5
AREE_181217_001	0	5	900	S	2	ILF	1
AREE_181217_001	1	6	900	S	2	ILF	2
AREE_181217_002	0	8	600	S	1	ILF	1
AREE_181217_002	1	10	400	S	2	ILF	2
AREE_181217_002	2	7	600	S	3	ILF	5
AREE_181217_003	0	9	600	S	3	nil	5
AREE_181217_003	1	10	600	S	3	nil	5
AREE_181217_003	2	9	600	S	4	nil	5
AREE_181217_003	3	10	400	S	4	CLR	5
AREE_181218_001	0	10	500	SSW	6	CHR	2
AREE_181218_001	1	10	500	SSW	5	ILR	2
AREE_181218_001	2	10	400	S	5	IHR	2
AREE_181218_001	3	10	400	S	5	CLR	2
AREE_181218_002	0	10	500	S	5	CHR	1
AREE_181218_002	1	10	400	S	5	nil	3
AREE_181218_002	2	10	500	S	5	nil	4

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_181218_003	0	10	500	S	5	nil	4
AREE_181218_003	1	10	400	S	5	nil	3
AREE_181219_001	0	5	500	S	1	nil	4
AREE_181219_001	1	5	600	S	1	nil	5
AREE_181219_002	0	5	700	S	2	nil	5
AREE_181219_002	1	6	700	SSE	3	nil	5
AREE_181219_002	2	7	700	SSE	4	nil	5
AREE_181219_003	0	7	600	S	5	nil	5
AREE_181219_003	1	7	500	S	5	nil	5
AREE_181219_003	2	8	500	S	5	nil	5
AREE_181219_003	3	7	500	S	4	IHR	5
AREE_181220_001	0	10	500	W	4	CLR	10
AREE_181220_001	1	10	500	SW	4	ILR	10
AREE_181220_001	2	10	500	SW	4	ILR	10
AREE_181220_001	3	10	500	SW	3	nil	10
AREE_181220_002	0	10	500	W	4	ILR	5
AREE_181220_002	1	9	500	W	4	nil	5
AREE_181220_002	2	6	500	W	4	nil	5
AREE_181220_002	3	9	500	W	4	nil	5
AREE_181221_001	0	10	600	SW	3	CLR	5
AREE_181221_001	1	10	600	SW	3	ILR	5
AREE_181221_001	2	10	600	SW	4	nil	5
AREE_181221_001	3	10	600	SW	4	nil	5
AREE_181221_002	0	10	500	SW	4	CLR	5
AREE_181221_002	1	10	500	SW	4	nil	5
AREE_181221_002	2	10	500	SW	3	nil	5
AREE_181221_002	3	10	500	SW	3	nil	5
AREE_190114_001	0	7	600	NW	3	nil	5
AREE_190114_001	1	8	500	NW	3	ILR	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_190114_001	2	8	600	NW	3	nil	5
AREE_190114_001	3	8	600	NW	3	nil	5
AREE_190114_002	0	9	700	NW	3	nil	5
AREE_190114_002	1	9	700	NW	4	ILR	5
AREE_190114_002	2	9	500	NW	4	ILR	4
AREE_190114_003	0	9	500	NW	4	nil	5
AREE_190114_003	1	10	500	W	3	nil	4
AREE_190115_001	0	10	700	WSW	4	nil	5
AREE_190115_001	1	10	600	SW	4	nil	5
AREE_190115_001	2	10	500	SW	4	nil	5
AREE_190115_002	0	10	500	SW	3	nil	4
AREE_190115_002	1	10	400	SW	3	ILR	2
AREE_190115_003	0	7	500	SW	4	nil	5
AREE_190115_003	1	8	500	SW	4	nil	5
AREE_190115_003	2	9	600	WSW	4	nil	5
AREE_190115_003	3	10	700	WSW	4	nil	5
AREE_190116_001	0	6	700	W	5	nil	5
AREE_190116_001	1	8	700	W	5	nil	5
AREE_190116_001	2	10	600	W	5	IHR	3
AREE_190116_002	0	9	500	W	5	nil	5
AREE_190116_002	1	8	500	W	4	nil	5
AREE_190116_003	0	6	600	WNW	5	nil	5
AREE_190116_003	1	7	600	WNW	5	nil	5
AREE_190116_003	2	6	700	WNW	5	nil	5
AREE_190116_003	3	4	700	WNW	5	nil	5
AREE_190121_001	0	10	700	S	3	nil	5
AREE_190121_001	1	10	700	S	4	nil	5
AREE_190121_001	2	10	700	S	5	nil	5
AREE_190121_001	3	10	700	S	5	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_190121_002	0	10	500	nil	0	nil	1
AREE_190121_002	1	10	600	nil	0	nil	3
AREE_190121_003	0	10	600	nil	0	nil	4
AREE_190121_003	1	10	600	S	2	nil	4
AREE_190121_003	2	10	700	S	3	nil	5
AREE_190122_001	0	10	400	W	3	CLS	1
AREE_190122_001	1	9	400	W	3	ILS	3
AREE_190122_001	2	10	400	NW	2	CHS	1
AREE_190122_001	3	10	400	NW	2	CLS	2
AREE_190122_002	0	9	500	SW	3	ILS	4
AREE_190122_002	1	9	500	SW	3	ILS	5
AREE_190122_003	0	9	500	SW	3	nil	5
AREE_190122_003	1	9	600	SW	3	nil	5
AREE_190122_003	2	9	600	W	3	ILH	5
AREE_190123_001	0	5	1000	WNW	1	nil	4
AREE_190123_001	1	5	1000	WNW	1	nil	5
AREE_190123_002	0	6	1000	WNW	2	nil	5
AREE_190123_002	1	6	1000	WNW	2	nil	5
AREE_190123_002	2	7	700	WNW	2	nil	5
AREE_190123_003	0	7	700	WNW	2	nil	5
AREE_190123_003	1	8	500	S	1	nil	5
AREE_190123_003	2	10	400	S	1	nil	4
AREE_190123_003	3	10	300	nil	0	CLS	1
AREE_190129_001	0	10	500	W	4	nil	4
AREE_190129_001	1	10	500	WNW	4	ILS	3
AREE_190129_001	2	10	500	WNW	4	ILS	3
AREE_190129_001	3	10	300	W	3	IHS	1
AREE_190129_002	0	9	500	NW	3	nil	5
AREE_190129_002	1	8	600	NW	3	ILS	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_190129_002	2	7	700	NW	3	nil	5
AREE_190129_003	0	8	700	WNW	4	nil	5
AREE_190129_003	1	8	600	W	4	ILS	5
AREE_190201_001	0	2	1000	NNE	2	nil	3
AREE_190201_001	1	2	1000	N	1	nil	5
AREE_190201_002	0	2	1000	N	1	nil	5
AREE_190201_002	1	2	1000	N	1	nil	5
AREE_190201_002	2	3	1000	N	3	nil	5
AREE_190201_003	0	2	1000	N	2	nil	5
AREE_190201_003	1	2	1000	N	2	nil	5
AREE_190201_003	2	2	1000	N	2	nil	5
AREE_190201_003	3	4	900	N	3	nil	5
AREE_190206_001	0	9	500	SW	5	nil	5
AREE_190206_001	1	8	600	SW	5	nil	5
AREE_190206_001	2	6	700	SW	5	nil	5
AREE_190206_001	3	8	600	SW	5	nil	5
AREE_190206_002	0	8	600	S	3	nil	3
AREE_190206_002	1	9	600	SW	3	nil	4
AREE_190206_003	0	9	500	SW	3	nil	4
AREE_190206_003	1	10	500	SW	3	ILF	3
AREE_190206_003	2	10	500	SW	3	nil	4
AREE_190207_001	0	10	400	NW	3	CLR	2
AREE_190207_001	1	10	400	NW	3	CLR	2
AREE_190207_002	0	10	400	NW	3	CLR	2
AREE_190207_002	1	9	500	NW	3	ILR	4
AREE_190207_002	2	8	600	NW	4	nil	5
AREE_190207_003	0	9	600	WNW	4	ILR	5
AREE_190207_003	1	8	600	WNW	5	ILR	5
AREE_190207_003	2	8	600	WNW	5	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_190207_003	3	6	700	W	4	nil	5
AREE_190219_001	0	10	600	SW	4	nil	5
AREE_190219_001	1	10	500	SW	4	nil	5
AREE_190219_001	2	10	500	SW	4	CLR	3
AREE_190219_002	0	10	400	SW	4	CLR	2
AREE_190219_002	1	10	400	SW	4	CLR	2
AREE_190219_003	0	10	500	SW	3	nil	5
AREE_190219_003	1	10	600	SW	3	nil	5
AREE_190219_003	2	10	600	SW	4	nil	5
AREE_190219_003	3	10	600	SW	4	nil	5
AREE_190220_001	0	10	300	SW	4	CLF	2
AREE_190220_001	1	10	300	SW	4	CLF	2
AREE_190220_001	2	10	300	SW	5	CLF	2
AREE_190220_001	3	10	300	SW	5	CLF	2
AREE_190220_002	0	10	300	SW	5	CLF	2
AREE_190220_002	1	10	300	SSW	5	CLF	2
AREE_190220_002	2	10	200	S	4	ILR	1
AREE_190220_003	0	10	200	S	4	ILR	1
AREE_190220_003	1	10	200	S	4	ILF	0.5
AREE_190221_001	0	10	400	S	5	nil	4
AREE_190221_001	1	10	300	S	4	ILF	2
AREE_190221_001	2	10	300	S	4	ILF	2
AREE_190221_001	3	10	300	S	5	ILF	2
AREE_190221_002	0	10	300	S	5	ILF	2
AREE_190221_002	1	10	400	S	5	nil	3
AREE_190221_002	2	9	400	S	5	nil	4
AREE_190221_003	0	9	400	S	5	nil	4
AREE_190221_003	1	7	400	S	5	nil	4
AREE_190226_001	0	0	9999	SE	3	nil	4

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_190226_001	1	0	9999	SE	4	nil	4
AREE_190226_001	2	0	9999	SE	4	nil	4
AREE_190226_001	3	0	9999	SE	3	nil	4
AREE_190226_002	0	2	900	S	4	CLF	2
AREE_190226_002	1	0	9999	SE	3	CLF	2
AREE_190226_003	0	0	9999	NE	3	CLF	2
AREE_190226_003	1	0	9999	E	3	nil	3
AREE_190226_003	2	0	9999	E	4	nil	3
AREE_190301_001	0	10	200	S	2	CHF	1
AREE_190301_001	1	10	200	S	3	CHF	1
AREE_190301_001	2	9	400	S	3	ILR	3
AREE_190301_001	3	8	500	S	3	nil	4
AREE_190301_002	1	8	500	S	4	nil	4
AREE_190301_002	2	7	500	S	4	nil	5
AREE_190301_003	0	8	500	S	4	nil	5
AREE_190301_003	1	10	500	S	4	nil	4
AREE_190315_001	0	9	600	W	6	IHH	4
AREE_190315_001	1	8	700	W	6	nil	5
AREE_190315_001	2	7	700	W	6	nil	5
AREE_190315_001	3	7	700	W	6	nil	5
AREE_190315_002	0	8	700	W	6	nil	5
AREE_190315_002	1	7	700	W	5	nil	5
AREE_190315_003	0	8	700	W	5	nil	5
AREE_190315_003	1	10	700	W	5	nil	4
AREE_190320_001	0	10	200	SW	4	CLF	1
AREE_190320_001	1	10	300	SW	4	CLF	2
AREE_190320_001	2	10	400	SW	4	CLF	3
AREE_190320_002	0	10	400	SSW	4	CLF	3
AREE_190320_002	1	10	300	SSW	4	CLF	2

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_190320_002	2	10	300	SW	3	CLF	2
AREE_190320_003	0	10	200	SW	3	CLF	1
AREE_190320_003	1	10	200	SW	3	CLF	1
AREE_190320_004	0	10	200	SW	3	CLF	1
AREE_190320_004	1	10	300	SW	3	ILF	1
AREE_190320_004	2	10	200	SW	4	CLF	1
AREE_190321_001	0	10	400	SW	3	nil	4
AREE_190321_001	1	10	400	SW	3	nil	4
AREE_190321_002	0	10	400	SW	3	nil	3
AREE_190321_002	1	10	300	SW	3	nil	2
AREE_190321_002	2	10	300	SW	3	ILR	3
AREE_190321_003	0	10	400	WSW	3	nil	4
AREE_190321_003	1	10	500	WSW	3	nil	5
AREE_190321_003	2	10	500	W	3	nil	5
AREE_190321_004	0	10	500	W	3	nil	5
AREE_190321_004	1	10	500	W	3	nil	5
AREE_190321_004	2	10	500	W	3	nil	5
AREE_190322_001	0	10	400	S	6	nil	4
AREE_190322_001	1	10	500	S	5	nil	4
AREE_190322_001	2	10	500	S	5	nil	4
AREE_190322_002	0	10	400	S	5	nil	3
AREE_190322_002	1	10	400	S	5	nil	3
AREE_190322_003	0	10	500	S	5	CHR	3
AREE_190322_003	1	10	400	SSW	4	CHR	2
AREE_190322_003	2	10	400	SW	4	CHR	2
AREE_190322_004	0	10	400	W	4	ILR	2
AREE_190322_004	1	10	300	W	4	ILR	2
AREE_190322_004	2	10	400	W	3	ILR	3
AREE_190325_001	0	8	900	NW	4	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_190325_001	1	7	900	NW	4	nil	5
AREE_190325_002	0	5	900	WNW	3	nil	5
AREE_190325_002	1	5	400	W	3	nil	5
AREE_190325_003	0	8	900	NW	3	nil	5
AREE_190325_003	1	6	900	NW	3	nil	5
AREE_190325_003	2	6	900	NW	4	nil	5
AREE_190325_003	3	7	900	NW	4	nil	5
AREE_190329_001	0	10	500	SW	3	nil	5
AREE_190329_001	1	10	500	SW	3	nil	4
AREE_190329_001	2	10	400	SW	3	nil	3

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Annex 1.4 Migration Watch Point Survey Information

***Watch ID relates to Appendix 1.5 Weather Details**

Date	Obs	MWP	Start	End	Duration	Watch ID*
25/02/2014	RAS	C	1115	1415	3.00	AREE_140225_003
03/03/2014	RAS	C	0845	1145	3.00	AREE_140303_005
10/03/2014	RAS	C	1315	1615	3.00	AREE_140310_005
11/03/2014	RAS	C	0700	1000	3.00	AREE_140311_003
21/03/2014	RAS	C	1100	1400	3.00	AREE_140321_003
24/03/2014	RAS	C	1500	1800	3.00	AREE_140324_003
27/03/2014	RAS	C	1100	1400	3.00	AREE_140327_003
03/04/2014	RAS	C	1100	1400	3.00	AREE_140403_003
07/04/2014	RAS	C	1100	1400	3.00	AREE_140407_003
11/04/2014	RAS	C	0800	1100	3.00	AREE_140411_003
15/04/2014	RAS	C	1315	1615	3.00	AREE_140415_003
21/04/2014	RAS	C	1030	1330	3.00	AREE_140421_003
24/09/2014	RAS	D	0730	1030	3.00	AREE_140924_001
24/09/2014	RAS	D	1600	1900	3.00	AREE_140924_002
25/09/2014	RAS	D	1115	1415	3.00	AREE_140925_005
09/10/2014	RAS	D	1115	1415	3.00	AREE_141009_005
13/10/2014	RAS	D	1115	1415	3.00	AREE_141013_005
24/10/2014	RAS	D	0830	1130	3.00	AREE_141024_001
24/10/2014	RAS	D	1500	1800	3.00	AREE_141024_002
29/10/2014	RAS	D	0800	1100	3.00	AREE_141029_001
29/10/2014	RAS	D	1400	1700	3.00	AREE_141029_002
04/11/2014	RAS	D	1030	1330	3.00	AREE_141104_005
05/11/2014	RAS	D	0900	1200	3.00	AREE_141105_001
05/11/2014	RAS	D	1300	1600	3.00	AREE_141105_002

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Annex 1.5 Weather details for MWP Watches

***Precipitation Codes: Continuous / Intermittent + Light / Heavy + Rain / Snow / Hail / Fog**

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140225_003	0	10	500	S	5	ILR	2
AREE_140225_003	1	10	500	S	5	IHR	2
AREE_140225_003	2	9	600	S	5	ILR	3
AREE_140225_003	3	10	600	S	5	nil	4
AREE_140303_005	0	7	800	nil	0	nil	5
AREE_140303_005	1	6	800	nil	0	ILF	4
AREE_140303_005	2	5	800	NW	2	nil	5
AREE_140303_005	3	5	900	NW	3	nil	5
AREE_140310_005	0	8	900	NW	1	nil	5
AREE_140310_005	1	7	900	NW	1	nil	5
AREE_140310_005	2	5	900	NW	1	nil	5
AREE_140310_005	3	4	900	NW	1	nil	5
AREE_140311_003	0	3	1000	S	2	nil	4
AREE_140311_003	1	3	1000	S	2	nil	5
AREE_140311_003	2	3	1000	S	2	nil	5
AREE_140311_003	3	3	1000	SSE	3	nil	5
AREE_140321_003	0	7	700	SW	4	nil	5
AREE_140321_003	1	8	700	SW	4	nil	5
AREE_140321_003	2	9	800	SW	4	nil	5
AREE_140321_003	3	10	700	SW	4	nil	5
AREE_140324_003	0	4	1000	SSE	5	nil	5
AREE_140324_003	1	4	1000	SSE	5	nil	5
AREE_140324_003	2	5	1000	SE	5	nil	5
AREE_140324_003	3	7	900	SE	5	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140327_003	0	9	900	SE	3	nil	5
AREE_140327_003	1	9	900	SE	3	nil	5
AREE_140327_003	2	10	900	SE	3	nil	5
AREE_140327_003	3	8	900	SE	3	nil	5
AREE_140403_003	0	10	600	S	3	nil	2
AREE_140403_003	1	10	600	S	3	NIL	2
AREE_140403_003	2	10	600	SSE	2	NIL	3
AREE_140403_003	3	10	600	SSE	2	NIL	3
AREE_140407_003	0	10	600	SE	1	ILR	4
AREE_140407_003	1	10	600	S	1	CLR	3
AREE_140407_003	2	10	600	S	1	CLR	3
AREE_140407_003	3	10	700	S	1	nil	5
AREE_140411_003	0	8	800	SW	2	nil	5
AREE_140411_003	1	9	800	SW	3	ILR	5
AREE_140411_003	2	7	900	SW	3	nil	5
AREE_140411_003	3	7	900	SW	3	nil	5
AREE_140415_003	0	4	900	S	4	nil	5
AREE_140415_003	1	3	900	S	4	nil	5
AREE_140415_003	2	4	900	SSW	4	nil	5
AREE_140415_003	3	5	900	SW	4	nil	5
AREE_140421_003	0	7	900	SE	4	nil	5
AREE_140421_003	1	7	900	SE	4	nil	5
AREE_140421_003	2	8	900	SE	4	nil	5
AREE_140421_003	3	8	900	SE	4	nil	5
AREE_140924_001	0	3	800	NW	2	nil	5
AREE_140924_001	1	4	900	NW	1	nil	5
AREE_140924_001	2	7	900	NW	3	nil	5
AREE_140924_001	3	5	900	NW	3	nil	5
AREE_140924_002	0	8	900	WNW	4	nil	5

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Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_140924_002	1	7	900	WNW	4	nil	5
AREE_140924_002	2	6	900	NW	3	nil	5
AREE_140924_002	3	5	900	NW	2	nil	5
AREE_140925_005	0	10	400	W	3	nil	4
AREE_140925_005	1	10	500	W	3	nil	5
AREE_140925_005	2	10	600	WNW	3	nil	5
AREE_140925_005	3	10	600	WSW	3	nil	5
AREE_141009_005	0	10	800	E	2	nil	5
AREE_141009_005	1	10	800	E	1	nil	5
AREE_141009_005	2	10	800	nil	0	nil	5
AREE_141009_005	3	10	800	NW	1	nil	5
AREE_141013_005	0	7	800	NE	3	nil	5
AREE_141013_005	1	8	800	NE	4	nil	5
AREE_141013_005	2	9	800	NE	4	nil	5
AREE_141013_005	3	8	800	NE	4	nil	5
AREE_141024_001	0	8	600	nil	0	nil	5
AREE_141024_001	1	8	600	SW	1	nil	5
AREE_141024_001	2	6	600	SW	3	nil	5
AREE_141024_001	3	6	700	SW	3	nil	5
AREE_141024_002	0	10	600	SW	4	ILR	5
AREE_141024_002	1	9	600	SW	3	nil	5
AREE_141024_002	2	10	600	SW	3	ILR	5
AREE_141024_002	3	9	700	SW	3	nil	4
AREE_141029_001	0	9	900	W	1	nil	5
AREE_141029_001	1	7	900	W	1	nil	5
AREE_141029_001	2	7	900	S	1	nil	5
AREE_141029_001	3	7	1000	S	1	nil	5
AREE_141029_002	0	4	1000	SE	2	nil	5
AREE_141029_002	1	5	1000	SE	2	nil	5

Watch ID	Hour	Cloud 10th	Cloud Base (m)	Wind Direction	Wind Force	Precipitation	Visibility (km)
AREE_141029_002	2	7	1000	SE	2	nil	5
AREE_141029_002	3	7	1000	SE	1	nil	5
AREE_141104_005	0	8	700	N	2	nil	5
AREE_141104_005	1	7	700	N	2	nil	5
AREE_141104_005	2	5	700	N	3	nil	5
AREE_141104_005	3	4	700	N	3	nil	5
AREE_141105_001	0	3	900	NNE	1	nil	5
AREE_141105_001	1	3	900	NNE	2	nil	5
AREE_141105_001	2	2	900	NNE	2	nil	5
AREE_141105_001	3	1	900	NNE	2	nil	5
AREE_141105_002	0	1	900	NE	1	nil	5
AREE_141105_002	1	2	900	nil	0	nil	5
AREE_141105_002	2	3	900	nil	0	nil	5
AREE_141105_002	3	3	900	W	1	nil	5

Annex 1.6 Flight Activity Survey Species Lists and BTO Codes

List A		List B		List C	
Species	BTO Code	Species	BTO Code	Species	BTO Code
Diver spp.	RH/BV	Greylag goose	GJ	Cormorant	CA
Common scoter	CX	Barnacle goose	BY	Heron	H.
White-tailed eagle	WE	White-fronted goose	EW(Euro)/NW(Grld)	Kestrel	K.
Golden eagle	EA	Pink-footed goose	PG	Buzzard	BZ
Hen harrier	HH	Brent goose	DB(Dark)/PB(Pale)	Sparrowhawk	SH
Goshawk	GI	Bean goose	BE	Red grouse	RG
Red kite	KT	Golden plover	GP	Grey partridge	P.
Osprey	OP	Dunlin	DN	Lapwing	L.
Merlin	ML	Greenshank	GK	Redshank	RK
Peregrine	PE	Whimbrel	WM	Common sandpiper	CS
Hobby	HY	Curlew	CU	Oystercatcher	OC
Barn owl	BO	Wood sandpiper	OD	Snipe	SN
Short-eared owl	SE	Tern spp.	AE/CN	Woodcock	WK
Black grouse	BK	Arctic Skua	AC	Herring gull	HG

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List A		List B		List C	
Species	BTO Code	Species	BTO Code	Species	BTO Code
Capercaillie	CP	Great Skua	NX	Cuckoo	CK
Nightjar	NJ			Ring ouzel	RZ
Chough	CF			Raven	RN
Whooper swan	WS				
Rare raptors	HZ/MR/RF/YF				

Annex 1.7 Other Survey Species Lists and BTO Codes

List A		List C	
Species	BTO Code	Species	BTO Code
Diver sp.	RH/BV	Cormorant	CA
Common scoter	CX	Heron	H.
White tailed eagle	WE	Kestrel	K.
Golden eagle	EA	Buzzard	BZ
Hen harrier	HH	Sparrowhawk	SH
Goshawk	GI	Red grouse	RG
Red kite	KT	Grey partridge	P.
Osprey	OP	Lapwing	L.
Merlin	ML	Redshank	RK
Peregrine	PE	Common sandpiper	CS
Hobby	HY	Oystercatcher	OC
Barn owl	BO	Snipe	SN
Short-eared owl	SE	Woodcock	WK
Black grouse	BK	Herring gull	HG

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List A		List C	
Species	BTO Code	Species	BTO Code
Capercaillie	CP	Cuckoo	CK
Nightjar	NJ	Skylark	S.
Chough	CF	Tree pipit	TP
Whooper swan	WS	Duncock	D.
Rare raptors	HZ/MR/RF/YF	Ring ouzel	RZ
List B		Song thrush	ST
Species	BTO Code	Species	BTO Code
Grasshopper warbler		GH	
Greylag goose	GJ	Wood warbler	WO
Barnacle goose	BY	Spotted flycatcher	SF
White-front. goose	EW(Euro)/NW(Grld)	Marsh/Willow tit	MT/WT
Pink-footed goose	PG	Crested tit	CI
Brent goose	DB(Dark)/PB(Pale)	Starling	SG
Bean goose	BE	House/Tree sparrow	HS/TS
Golden plover	GP	Linnet	LI
Dunlin	DN	Twite	TW

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List A		List C	
Species	BTO Code	Species	BTO Code
Greenshank	GK	Lesser redpoll	LR
Whimbrel	WM	Crossbill/ Scottish c'bill	CR/CY
Curlew	CU	Bullfinch	BF
Wood sandpiper	OD	Hawfinch	HF
Tern spp.	AE/CN	Yellowhammer	Y.
Skua spp.	AC/NX	Reed bunting	RB
Colonial spp. nests	H./Gull spp.	Corn bunting	CB
		Raven	RN
		Other wildfowl spp.	MS/MA/GD/T.