

COWRIE RTD-01-09

High Resolution Video Survey of Seabirds and Mammals in the Rhyl Flats Area

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Executive Summary

Windfarm developers are obliged by law to undertake pre and post-construction surveys of the seabird population at and in the vicinity of proposed windfarm sites. The two standard tools for these surveys are aerial and ship-based surveys. Of these two, aerial surveys are the more affordable, and provide the most practical and cost effective means for gathering contemporaneous data on a large area due the limited speed of boats.

In a previous COWRIE study, HiDef Aerial Surveying Ltd. demonstrated the feasibility of applying high definition video technology to seabird surveys through trial surveys. This trial demonstrated the ability to use the HiDef surveying technique for surveying sensitive species such as common scoter in shallow waters.

In order to demonstrate the techniques capability further, to further show the feasibility of using the technique for such sensitive species in inshore areas and to provide further confidence in the technique as a practical tool for windfarm surveying, COWRIE commissioned a further trial in the Rhyl Flats area. This trial was successfully completed over two days in April 2009. The objective of this report is to record and analyse the output from this trial.

The aim of this trial was to demonstrate the ability to identify red throated divers from video data. Example images of divers are shown in section 3.3. A total of 15 divers were identified using the HiDef survey technique giving a population estimate of 75. This is in line with the population estimates described in 'Aerial Surveys of Waterbirds in Strategic Wind Farm Areas: 2004/05 Final Report (May 2006)'.

Glossary

High Definition – an enhanced resolution video, giving a resolution of 1080x1920 pixels (approximately 2.1 mega-pixels)

Acronyms

HD – High Definition

Units

1. Introduction

Windfarm developers are obliged by law to undertake pre and post-construction surveys of the seabird population at and in the vicinity of proposed windfarm sites. The two standard tools for these surveys are aerial and ship-based surveys. Of these two, aerial surveys are the more affordable, and provide the most practical and cost effective means for gathering contemporaneous data on a large area due the limited speed of boats.

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1.1 Objective

The purpose of this trial was to demonstrate the ability to recognise red throated divers from video data.

2. Video Survey Technique

Development of HiDef's technique commenced in August 2007, with a trial flight based on a helicopter deployed gyroscopically stabilised system. Although this system had few technical features in common with the current HiDef system, the basic principles were confirmed: video was found to have sufficient detail to detect and identify even smaller birds and the survey pattern (fixed camera, parallel transects) was defined.

A second trial was undertaken in March 2008 to test developments arising from observation made during the first trial. These developments improved the image quality and streamlined the survey process. This demonstrated the deployment of a camera from a plane rather than a helicopter and the ability to survey common scoter without flushing from 2000ft. The data set showed a good agreement with past data gathered using the conventional technique.

As a result of learning from this trial, a formal methodology for video survey of waterbirds was developed by HiDef in conjunction with JNCC. This document (included as Appendix 1) sets a method and standard for gathering raw video data to the quality required for underpinning population variation analysis.

HiDef has continued to refine the survey system following the initial trials and now operates a unique purpose designed super high definition camera system which maintains the image quality achieved during the second trial, while increasing the coverage rate substantially. This camera system is integrated with an industrial data management system to provide a robust airborne camera survey system. Field trials of this system have demonstrated its ability to meet or exceed the performance requirements specified in the JNCC accepted methodology.

In comparison with the standard high definition cameras used in the trial surveys, the HiDef super high definition system has many times the megapixel resolution, and covers a far wider swathe of water, enabling us to use the same transect patterns employed by visual observers.

2.1 Equipment Specification

HiDef have developed a unique, super high definition digital imaging system capable of being deployed in a range of aircraft with a suitable viewing opening. The airborne component of the system incorporates multiple digital cameras and data management equipment. The system is complimented by a ground based component that is used for data management and review of captured data.

Throughout this survey, HiDef operated a bank of cameras in a fixed forward looking position directed at a steep angle. The cameras provided 2cm resolution over a 400m swathe of water on each transect flown.

The system is operated by a single technician who continuously monitors the focus and exposure. Exposure time is kept below 1/1000 seconds to eliminate motion blur and to enable high speed flying.

For more information see Appendix 1 – Aerial Survey Methodology.

2.2 Survey Specification

The survey described in this report was carried out in the Rhyl Flats area. Following discussions with JNCC it was decided that HiDef would cover two of the four areas on the map shown in figure 1 at 20% coverage or higher. The intention was to cover Formby and West Rhyl by preference, particularly Formby which has a relatively static population. However it was noted that, in the event that weather deteriorates while on survey, HiDef may move to one or both of the other sites to maximize the amount of good quality data that can be recorded on the day. The survey was flown at a nominal altitude of 2000ft at speeds up to 280kph.

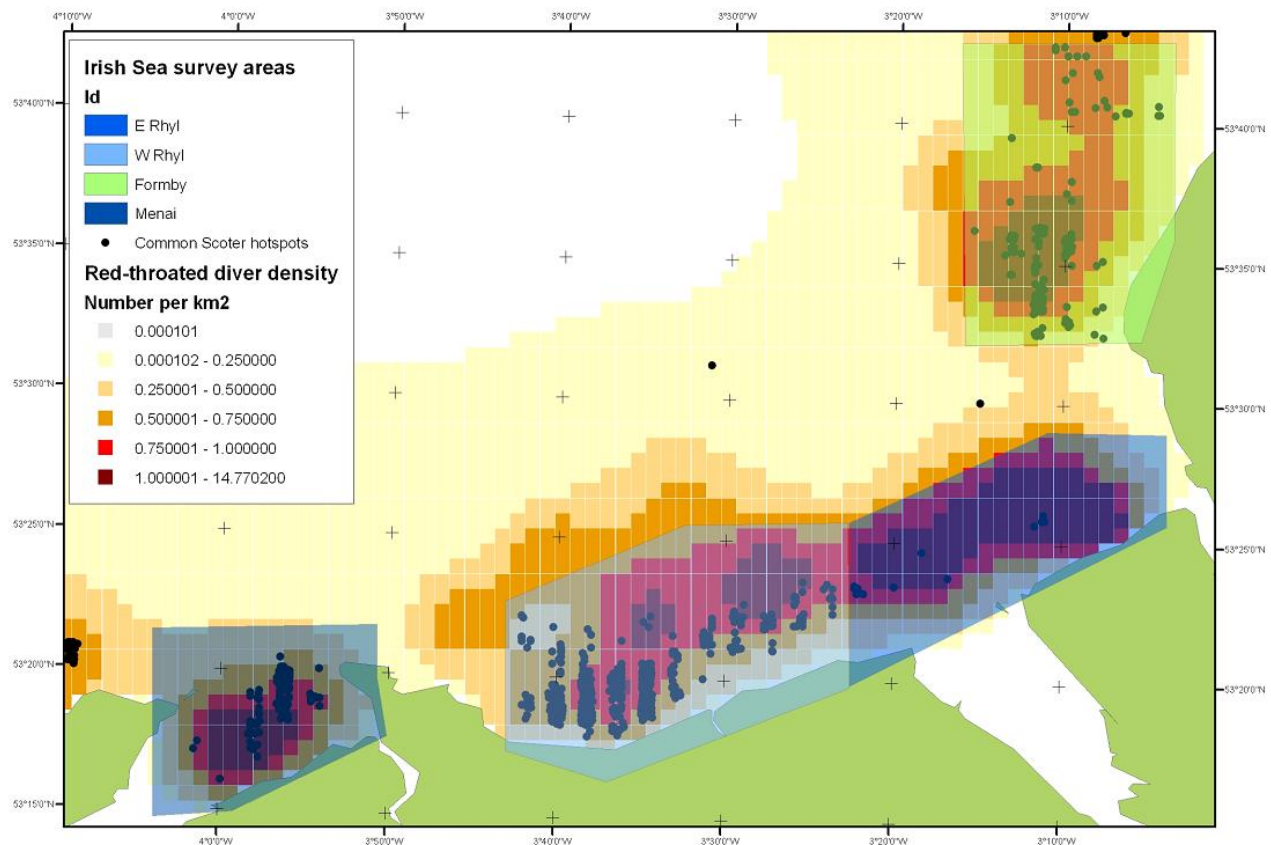


Figure 1 – Map of Rhyl Flats area showing possible survey locations

The following figure shows the transects flown in the survey:

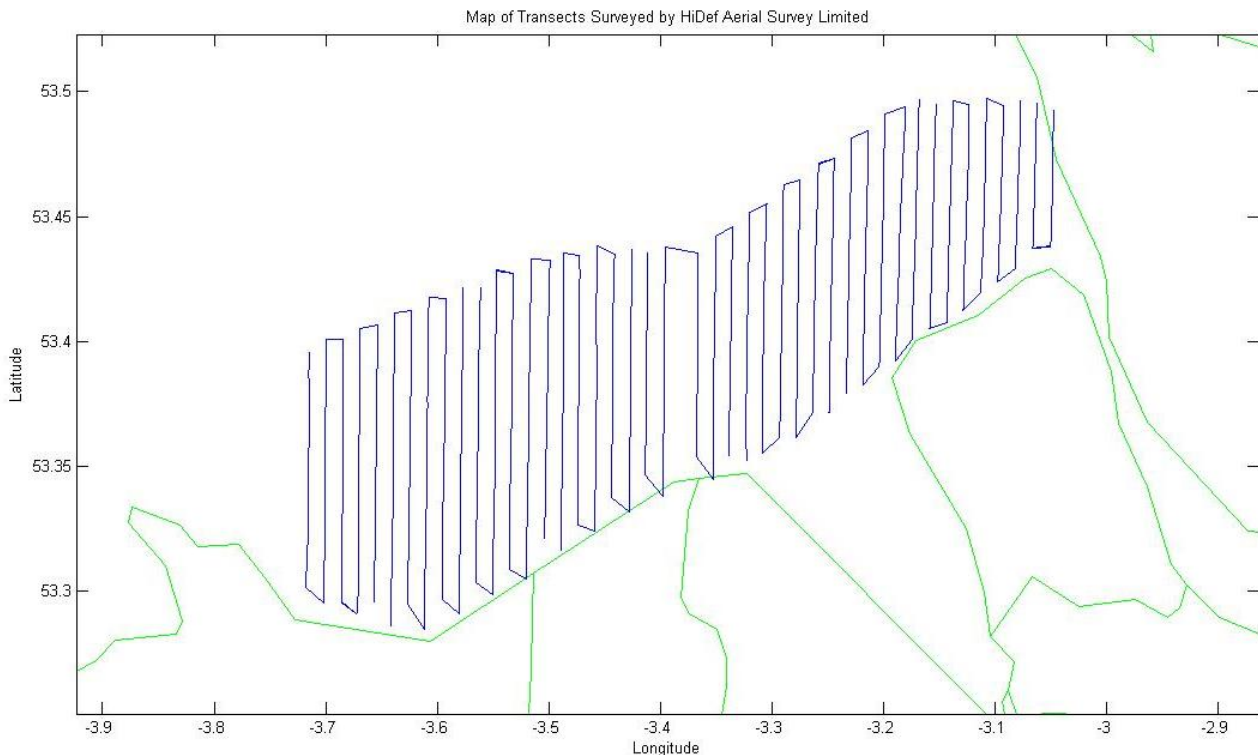


Figure 2 – Transects flown in the survey of the Rhyl Flats area.

3. Survey Implementation

The survey detailed in this report was carried out over two days on the 5th and 8th of April. The survey transects were flown North to South throughout the two days. On the whole the weather conditions were good; however, it was noted that when the plane was flying south, there was sometimes a large amount of reflection of the water surface causing the data to be more difficult to review.

3.1 GPS Track

The surveys were carried out in line with the original specification with both West Rhyl and Formby being surveyed. The surveys achieved 20% coverage of the area.

3.2 Data Quality

As noted above, the survey transects were flown on a North South axis. The south flying transects were flown into the sun and, as such, there was found to be significant reflections off the water which caused difficulties in review of the data. This principally caused the initial review of the data to be elongated; however, it was noted that in some cases it would be unlikely to have been able to successfully identify some of the smaller birds. The data which was generated on the North flying transects was generally of good quality.

Audits are carried out on all the data which HiDef reviews. This involves 20% of the raw data over the complete range of the data being reviewed for a second time by a competent reviewer. The output of the two reviews are then compared and any discrepancies are noted. If there are any significant differences between the reviews, further training is given to the affected reviewers and the data previously reviewed by those reviewers is re-reviewed by a competent reviewer.

During the review of this data, we found that there was one reviewer from whom there were significant discrepancies. As a result of this, the reviewer was given further training and the data they had previously reviewed was re-reviewed.

3.3 Example Images

Example images of the main species of interest within the survey area are shown below. It should be noted that each image represents a very small portion of the frame from which it was extracted.



Picture 1 – A Red Throated Diver



Picture 2 – A Red Throated Diver



Picture 3 – A Gull



Picture 4 – Group of Common Scoter



Picture 5 – Group of Auks



Picture 6 – A Red Throated Diver

4. Output Maps

Maps showing the distribution of all observed species over the survey area

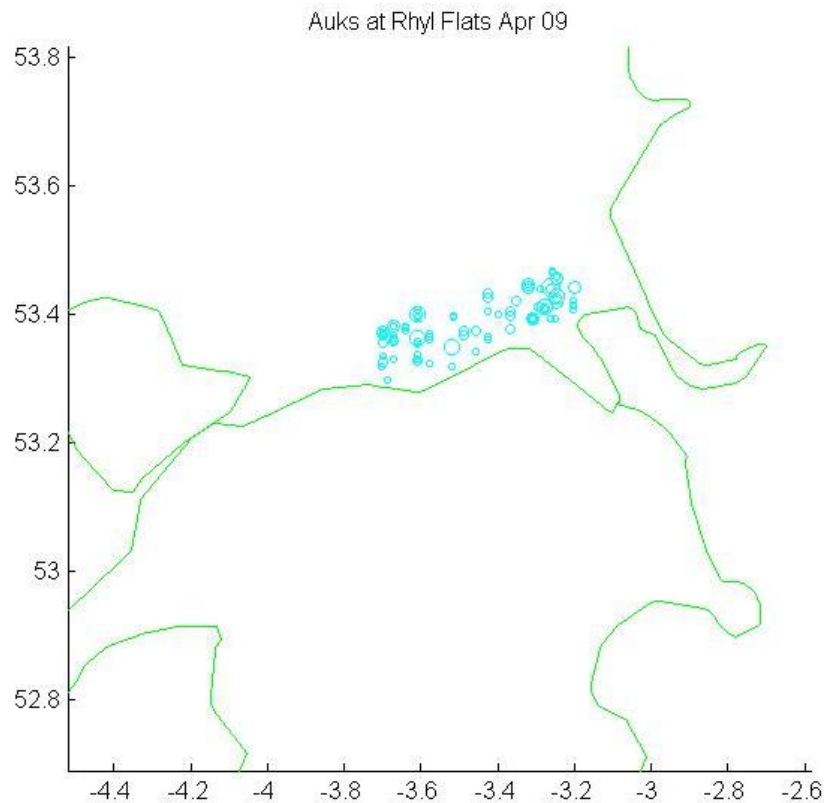


Figure 3 – A Map of the Auks Identified by HiDef Aerial Surveying Limited at Rhyl Flats

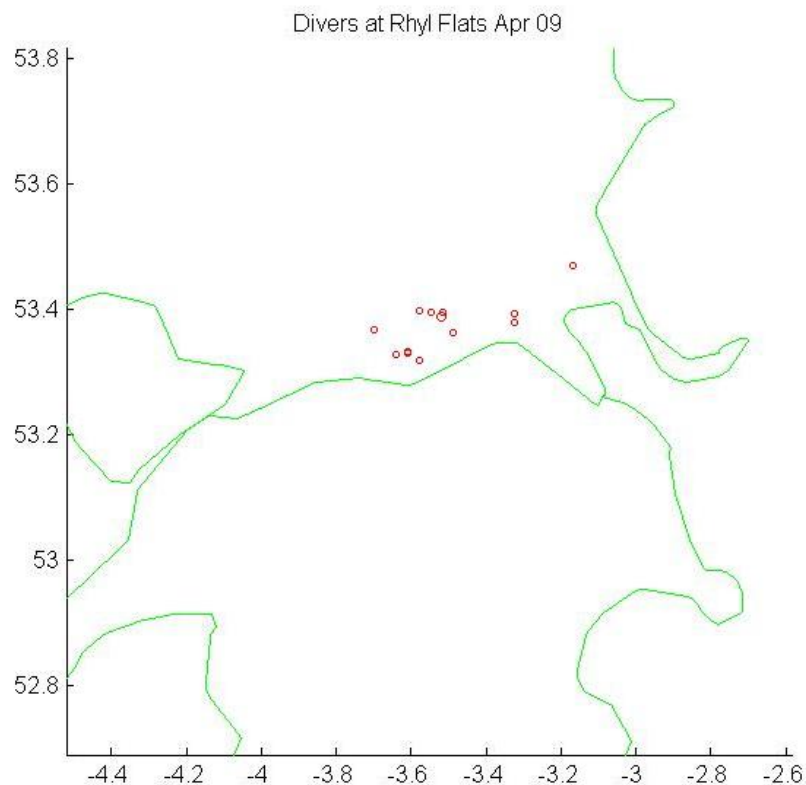


Figure 4 – A Map of the Divers Identified by HiDef Aerial Surveying Limited at Rhyl Flats

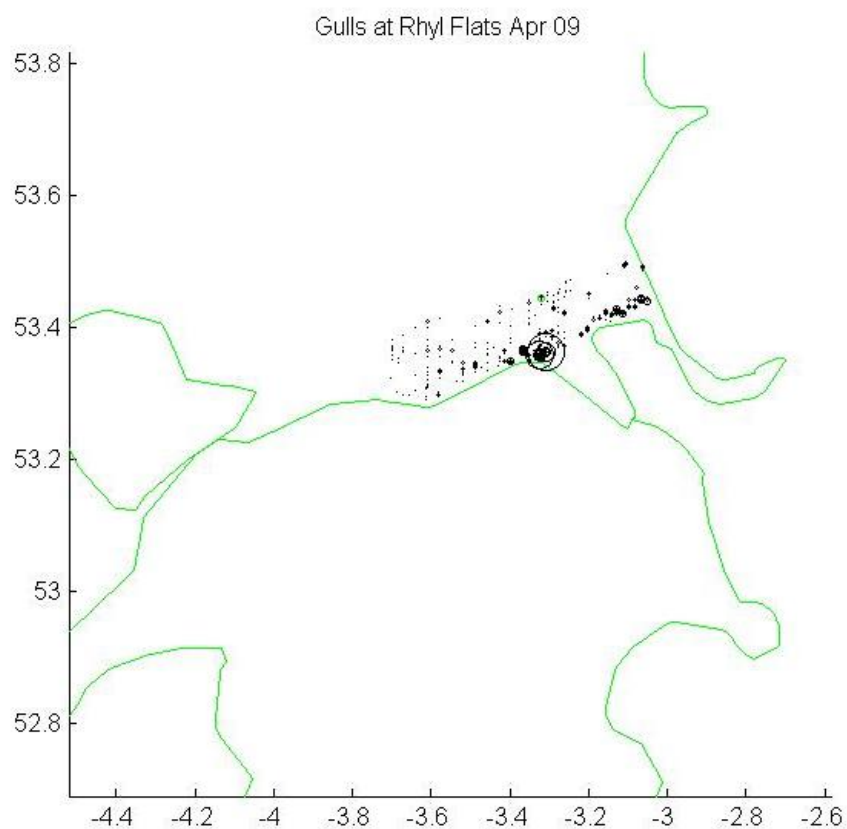


Figure 5 – A Map of the Gulls Identified by HiDef Aerial Surveying Limited at Rhyl Flats

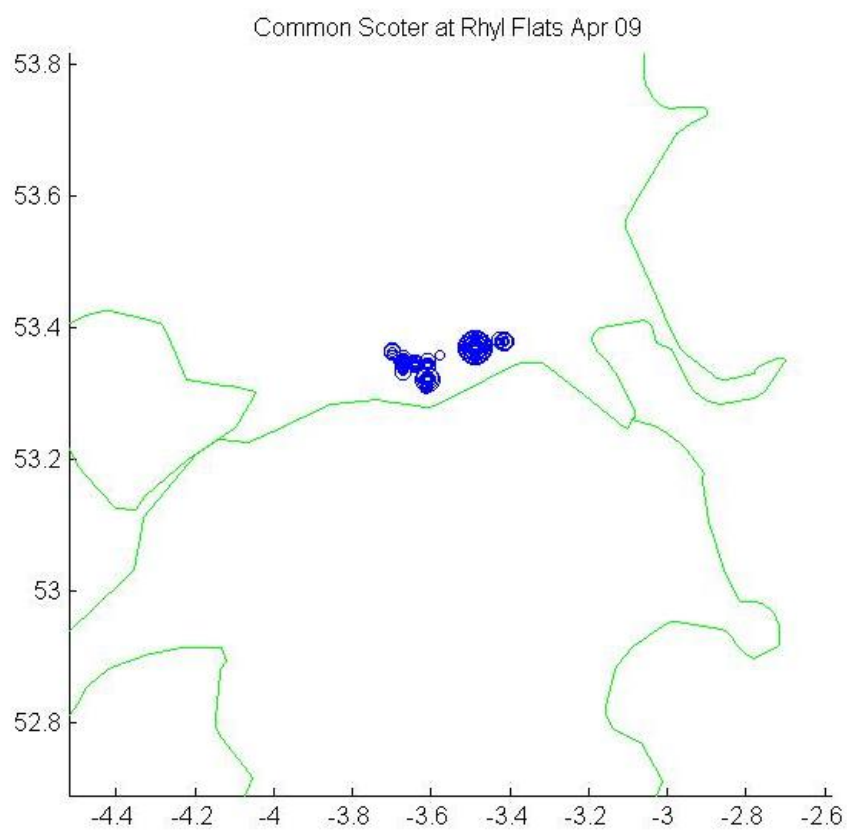


Figure 6 – A Map of the Common Scoter Identified by HiDef Aerial Surveying Limited at Rhyl Flats

5. Discussion

The aim of this trial was to demonstrate the ability to identify red throated divers from video data. Example images of divers are shown in section 3.3. A total of 15 divers were identified using the HiDef survey technique giving a population estimate of 75. This is in line with the population estimates described in 'Aerial Surveys of Waterbirds in Strategic Wind Farm Areas: 2004/05 Final Report (May 2006)'.

The majority of the birds identified in the Rhyl flats area were scoter. There were also a large number of gulls and a not insignificant number of auks. As shown in the previous section the majority of bird species were spread relatively evenly across the area with the exception of the common scoter which were grouped in quite a close area near to the shore.

6. Data Tables

The following table shows the main output form the high resolution survey of Rhyl Flats.

Location	Survey Date	Camera	Time	Reel Ref	Frame Ref	Category	Confidence	Number	Behaviour	Latitude	Longitude
Rhyl	05/04/2009	1	10:01:00.000	14.44.09.312	2783	Fulmar	Moderate	1		53.3207175	-3.7007639
Rhyl	05/04/2009	1	10:01:40.000	14.44.09.312	3383	Phalarocorax	Moderate	1		53.34853167	-3.7004839
Rhyl	05/04/2009	1	10:01:47.484	14.44.09.312	3492	Common Scoter	High	2		53.3534425	-3.7004886
Rhyl	05/04/2009	1	10:01:47.484	14.44.09.312	3492	Common Scoter	Moderate	1		53.3534425	-3.7004886
Rhyl	05/04/2009	1	10:01:59.098	14.44.09.312	3667	Common Scoter	High	2		53.36131722	-3.7004436
Rhyl	05/04/2009	1	10:02:00.426	14.44.09.312	3687	Common Scoter	High	8		53.36227333	-3.7004397
Rhyl	05/04/2009	1	10:02:03.000	14.44.09.312	3729	Common Scoter	High	12		53.36405639	-3.7004242
Rhyl	05/04/2009	1	10:02:03.677	14.44.09.312	3736	Common Scoter	High	14		53.36446917	-3.7004172
Rhyl	05/04/2009	1	10:02:04.142	14.44.09.312	3743	Common Scoter	High	5		53.36474472	-3.7004122
Rhyl	05/04/2009	1	10:02:05.204	14.44.09.312	3759	Common Scoter	High	4		53.36543417	-3.7003981
Rhyl	05/04/2009	1	10:02:12.039	14.44.09.312	3862	Gull	Low	1		53.37010583	-3.7002481
Rhyl	05/04/2009	1	10:02:20.070	14.44.09.312	3983	Common Scoter	High	7		53.37554639	-3.7001081
Rhyl	05/04/2009	1	10:10:08.533	14.44.09.312	7305	Gull	High	1		53.29684528	-3.6712303
Rhyl	05/04/2009	1	10:11:03.755	14.44.09.312	8137	Common Scoter	High	5		53.33414306	-3.6707286
Rhyl	05/04/2009	1	10:11:04.884	14.44.09.312	8154	Common Scoter	High	2		53.33496472	-3.67071
Rhyl	05/04/2009	1	10:11:07.936	14.44.09.312	8200	Common Scoter	High	16		53.33701361	-3.6706808
Rhyl	05/04/2009	1	10:11:08.800	14.44.09.312	8213	Common Scoter	High	2		53.33755889	-3.6706769
Rhyl	05/04/2009	1	10:11:09.596	14.44.09.312	8225	Common Scoter	High	21		53.33810389	-3.6706742
Rhyl	05/04/2009	1	10:11:10.127	14.44.09.312	8233	Common Scoter	High	3		53.3385125	-3.6706731
Rhyl	05/04/2009	1	10:11:10.791	14.44.09.312	8243	Common Scoter	High	5		53.33892056	-3.6706725
Rhyl	05/04/2009	1	10:11:16.832	14.44.09.312	8334	Common Scoter	High	15		53.34300194	-3.6706558
Rhyl	05/04/2009	1	10:11:18.822	14.44.09.312	8364	Common Scoter	High	4		53.34436972	-3.6706483
Rhyl	05/04/2009	1	10:11:20.746	14.44.09.312	8393	Common Scoter	High	10		53.34574306	-3.6706256
Rhyl	05/04/2009	1	10:11:21.211	14.44.09.312	8400	Common Scoter	High	18		53.34601833	-3.6706186
Rhyl	05/04/2009	1	10:11:21.211	14.44.09.312	8400	Common Scoter	High	21		53.34601833	-3.6706186
Rhyl	05/04/2009	1	15:11:21.543	14.44.09.312	8405	Common Scoter	High	10		53.34629361	-3.6706119
Rhyl	05/04/2009	1	15:11:21.941	14.44.09.312	8411	Common Scoter	High	4		53.34656917	-3.670605
Rhyl	05/04/2009	1	10:11:22.807	14.44.09.312	8424	Common Scoter	High	2		53.34712056	-3.6705925
Rhyl	05/04/2009	1	10:11:24.464	14.44.09.312	8449	Common Scoter	Moderate	4		53.34822389	-3.6705725
Rhyl	05/04/2009	1	10:11:25.061	14.44.09.312	8458	Common Scoter	Moderate	11		53.3486375	-3.6705644
Rhyl	05/04/2009	1	10:11:25.460	14.44.09.312	8464	Common Scoter	High	31		53.34891333	-3.6705589
Rhyl	05/04/2009	1	10:11:25.990	14.44.09.312	8472	Common Scoter	High	14		53.34932694	-3.6705492
Rhyl	05/04/2009	1	10:11:26.455	14.44.09.312	8479	Common Scoter	High	3		53.34960278	-3.6705422
Rhyl	05/04/2009	1	10:11:26.920	14.44.09.312	8486	Common Scoter	High	7		53.35001667	-3.6705314
Rhyl	05/04/2009	1	10:11:27.915	14.44.09.312	8501	Common Scoter	High	4		53.35056806	-3.6705181

Rhyl	05/04/2009	1	10:11:28.512	14.44.09.312	8510	Common Scoter	Low	3	53.35098167	-3.6705097
Rhyl	05/04/2009	1	10:11:34.486	14.44.09.312	8600	Common Scoter	Moderate	2	53.35511417	-3.6704125
Rhyl	05/04/2009	1	10:11:46.301	14.44.09.312	8778	Gull	High	1	53.36320056	-3.6700275
Rhyl	05/04/2009	1	10:11:47.827	14.44.09.312	8801	Gull	High	1	53.36429111	-3.6699664
Rhyl	05/04/2009	1	10:11:55.858	14.44.09.312	8922	Gull	Low	1	53.369705	-3.6698686
Rhyl	05/04/2009	1	10:12:24.265	14.44.09.312	9350	Gull	High	1	53.38894472	-3.6694961
Rhyl	05/04/2009	1	10:16:12.587	14.44.09.312	10772	Common Scoter	Low	5	53.36662111	-3.654595
Rhyl	05/04/2009	1	10:16:14.180	14.44.09.312	10796	Common Scoter	High	5	53.3656825	-3.6546328
Rhyl	05/04/2009	1	10:17:20.221	14.44.09.312	11791	Common Scoter	Low	2	53.32654167	-3.6557433
Rhyl	05/04/2009	1	10:17:21.150	14.44.09.312	11805	Common Scoter	High	?	53.32593667	-3.6557639
Rhyl	05/04/2009	1	10:17:21.150	14.44.09.312	11802	Common Scoter	High	4	53.3260575	-3.6557597
Rhyl	05/04/2009	1	15:17:21.150	14.44.09.312	11805	Common Scoter	High	12	53.32593667	-3.6557639
Rhyl	05/04/2009	1	15:17:21.216	14.44.09.312	11806	Common Scoter	High	11	53.32593667	-3.6557639
Rhyl	05/04/2009	1	15:17:21.349	14.44.09.312	11808	Common Scoter	High	10	53.32581583	-3.6557678
Rhyl	05/04/2009	1	15:17:21.548	14.44.09.312	11811	Common Scoter	High	13	53.325695	-3.6557717
Rhyl	05/04/2009	1	15:17:21.946	14.44.09.312	11817	Common Scoter	High	12	53.32545333	-3.6557792
Rhyl	05/04/2009	1	15:17:22.809	14.44.09.312	11830	Common Scoter	High	3	53.32497056	-3.6557956
Rhyl	05/04/2009	1	15:17:23.539	14.44.09.312	11841	Common Scoter	High	4	53.32448806	-3.6558103
Rhyl	05/04/2009	1	10:17:24.136	14.44.09.312	11850	Common Scoter	Low	2	53.32412528	-3.6558214
Rhyl	05/04/2009	1	10:18:09.734	14.44.09.312	12537	Gull	High	1	53.297	-3.6566858
Rhyl	05/04/2009	1	10:20:32.436	15.18.43.296	396	Gull	High	1	53.30406667	-3.64109
Rhyl	05/04/2009	1	10:21:16.573	15.18.43.296	1061	Common Scoter	Low	4	53.33381194	-3.6398417
Rhyl	05/04/2009	1	10:21:16.640	15.18.43.296	1062	Common Scoter	Low	2	53.333945	-3.6398381
Rhyl	05/04/2009	1	10:21:16.839	15.18.43.296	1065	Common Scoter	Low	5	53.33407806	-3.6398347
Rhyl	05/04/2009	1	10:21:17.038	15.18.43.296	1068	Common Scoter	Low	1	53.33421083	-3.6398314
Rhyl	05/04/2009	1	10:21:17.104	15.18.43.296	1069	Common Scoter	Low	3	53.33421083	-3.6398314
Rhyl	05/04/2009	1	10:21:17.170	15.18.43.296	1070	Common Scoter	Moderate	2	53.33421083	-3.6398314
Rhyl	05/04/2009	1	10:21:17.237	15.18.43.296	1071	Common Scoter	Low	2	53.33421083	-3.6398314
Rhyl	05/04/2009	1	10:21:17.306	15.18.43.296	1072	Common Scoter	Low	4	53.33434389	-3.6398286
Rhyl	05/04/2009	1	10:21:17.503	15.18.43.296	1075	Common Scoter	Low	3	53.33447694	-3.6398256
Rhyl	05/04/2009	1	10:21:17.635	15.18.43.296	1077	Common Scoter	Moderate	3	53.33447694	-3.6398256
Rhyl	05/04/2009	1	10:21:17.834	15.18.43.296	1080	Common Scoter	Low	1	53.33461	-3.6398231
Rhyl	05/04/2009	1	10:21:17.967	15.18.43.296	1082	Common Scoter	Low	5	53.33474278	-3.63982
Rhyl	05/04/2009	1	10:21:29.914	15.18.43.296	1262	Common Scoter	Low	2	53.34271028	-3.6397114
Rhyl	05/04/2009	1	10:21:30.180	15.18.43.296	1266	Common Scoter	High	2	53.34284361	-3.6397094
Rhyl	05/04/2009	1	10:21:30.777	15.18.43.296	1275	Common Scoter	High	2	53.34324389	-3.6397025
Rhyl	05/04/2009	1	10:21:30.910	15.18.43.296	1277	Common Scoter	Moderate	2	53.3433775	-3.6397
Rhyl	05/04/2009	1	10:21:30.976	15.18.43.296	1278	Common Scoter	High	2	53.3433775	-3.6397

Rhyl	05/04/2009	1	10:21:30.976	15.18.43.296	1278	Common Scoter	High	1	53.3433775	-3.6397
Rhyl	05/04/2009	1	10:21:31.042	15.18.43.296	1279	Common Scoter	High	2	53.3433775	-3.6397
Rhyl	05/04/2009	1	10:21:31.108	15.18.43.296	1280	Common Scoter	High	1	53.3433775	-3.6397
Rhyl	05/04/2009	1	10:21:31.175	15.18.43.296	1281	Common Scoter	High	5	53.34351111	-3.6396975
Rhyl	05/04/2009	1	10:21:31.241	15.18.43.296	1282	Common Scoter	High	3	53.34351111	-3.6396975
Rhyl	05/04/2009	1	10:21:31.374	15.18.43.296	1284	Common Scoter	Low	1	53.34364472	-3.639695
Rhyl	05/04/2009	1	10:21:31.441	15.18.43.296	1285	Common Scoter	Low	3	53.34364472	-3.639695
Rhyl	05/04/2009	1	10:21:31.573	15.18.43.296	1287	Common Scoter	Moderate	2	53.34377833	-3.6396925
Rhyl	05/04/2009	1	10:21:31.640	15.18.43.296	1288	Common Scoter	Low	4	53.34377833	-3.6396925
Rhyl	05/04/2009	1	10:21:31.906	15.18.43.296	1292	Common Scoter	Moderate	1	53.34404556	-3.6396872
Rhyl	05/04/2009	1	10:21:31.971	15.18.43.296	1293	Common Scoter	Moderate	2	53.34404556	-3.6396872
Rhyl	05/04/2009	1	10:21:32.038	15.18.43.296	1294	Common Scoter	Moderate	2	53.34404556	-3.6396872
Rhyl	05/04/2009	1	10:21:32.171	15.18.43.296	1296	Common Scoter	Low	2	53.34417944	-3.6396847
Rhyl	05/04/2009	1	10:21:32.303	15.18.43.296	1298	Common Scoter	Moderate	2	53.34417944	-3.6396847
Rhyl	05/04/2009	1	10:21:32.370	15.18.43.296	1299	Common Scoter	Low	4	53.34431306	-3.6396819
Rhyl	05/04/2009	1	10:21:32.437	15.18.43.296	1300	Common Scoter	Low	3	53.34431306	-3.6396819
Rhyl	05/04/2009	1	10:21:32.505	15.18.43.296	1301	Common Scoter	Moderate	4	53.34444694	-3.6396789
Rhyl	05/04/2009	1	10:21:32.636	15.18.43.296	1303	Common Scoter	High	3	Sitting 53.34444694	-3.6396789
Rhyl	05/04/2009	1	10:21:32.834	15.18.43.296	1306	Common Scoter	High	2	Sitting 53.34458083	-3.6396761
Rhyl	05/04/2009	1	10:21:32.901	15.18.43.296	1307	Common Scoter	High	3	Sitting 53.34471444	-3.6396731
Rhyl	05/04/2009	1	10:21:33.034	15.18.43.296	1309	Common Scoter	High	2	Sitting 53.34471444	-3.6396731
Rhyl	05/04/2009	1	10:21:33.232	15.18.43.296	1312	Common Scoter	High	3	Sitting 53.34484833	-3.6396703
Rhyl	05/04/2009	1	10:21:33.365	15.18.43.296	1314	Common Scoter	High	2	Sitting 53.34498222	-3.6396672
Rhyl	05/04/2009	1	10:21:33.631	15.18.43.296	1318	Common Scoter	High	3	Sitting 53.34511611	-3.6396644
Rhyl	05/04/2009	1	10:21:33.763	15.18.43.296	1320	Common Scoter	High	4	Sitting 53.34525	-3.6396617
Rhyl	05/04/2009	1	10:21:34.096	15.18.43.296	1325	Common Scoter	High	2	Sitting 53.34551806	-3.6396567
Rhyl	05/04/2009	1	10:21:34.295	15.18.43.296	1328	Common Scoter	High	3	Sitting 53.34565222	-3.6396544
Rhyl	05/04/2009	1	10:21:34.693	15.18.43.296	1334	Common Scoter	High	5	Sitting 53.34592028	-3.6396503
Rhyl	05/04/2009	1	10:21:34.891	15.18.43.296	1337	Common Scoter	High	2	Sitting 53.34605444	-3.6396481
Rhyl	05/04/2009	1	10:21:35.157	15.18.43.296	1341	Common Scoter	Moderate	3	Sitting 53.34618861	-3.6396461
Rhyl	05/04/2009	1	10:21:35.357	15.18.43.296	1344	Common Scoter	Moderate	3	Sitting 53.34632278	-3.6396439
Rhyl	05/04/2009	1	10:21:35.555	15.18.43.296	1347	Common Scoter	Low	1	Sitting 53.34645694	-3.6396417
Rhyl	05/04/2009	1	10:21:36.086	15.18.43.296	1355	Common Scoter	High	1	Sitting 53.34686	-3.6396342
Rhyl	05/04/2009	1	10:21:37.614	15.18.43.296	1378	Common Scoter	High	3	Flying 53.34780111	-3.6396189
Rhyl	05/04/2009	1	10:21:37.945	15.18.43.296	1383	Common Scoter	High	2	Sitting 53.34806972	-3.6396153
Rhyl	05/04/2009	1	10:21:40.799	15.18.43.296	1426	Common Scoter	Moderate	2	Sitting 53.34994833	-3.6396067
Rhyl	05/04/2009	1	10:21:59.914	15.18.43.296	1714	Common Scoter	High	4	Flying 53.36258333	-3.6394839
Rhyl	05/04/2009	1	10:26:58.259	15.18.43.296	3987	Common Scoter	Low	1	Sitting 53.36500917	-3.6243467

Rhyl	05/04/2009	1	10:26:58.657	15.18.43.296	3993	Common Scoter	Moderate	1	Sitting	53.36475972	-3.6243517
Rhyl	05/04/2009	1	10:26:58.856	15.18.43.296	3996	Common Scoter	High	3	Sitting	53.364635	-3.6243542
Rhyl	05/04/2009	1	10:26:58.989	15.18.43.296	3998	Common Scoter	Moderate	2	Sitting	53.36451	-3.6243564
Rhyl	05/04/2009	1	10:26:59.254	15.18.43.296	4002	Common Scoter	High	10	Sitting	53.36438528	-3.6243589
Rhyl	05/04/2009	1	10:26:59.254	15.18.43.296	4002	Common Scoter	High	3	Taking off	53.36438528	-3.6243589
Rhyl	05/04/2009	1	10:26:59.387	15.18.43.296	4004	Common Scoter	High	4	Sitting	53.36426056	-3.6243611
Rhyl	05/04/2009	1	10:26:59.454	15.18.43.296	4005	Common Scoter	High	8	Sitting	53.36426056	-3.6243611
Rhyl	05/04/2009	1	10:26:59.586	15.18.43.296	4007	Common Scoter	High	6	Sitting	53.36413583	-3.6243631
Rhyl	05/04/2009	1	10:26:59.652	15.18.43.296	4008	Common Scoter	Moderate	1	Sitting	53.36413583	-3.6243631
Rhyl	05/04/2009	1	10:26:59.785	15.18.43.296	4010	Common Scoter	Moderate	5	Sitting	53.36401111	-3.6243653
Rhyl	05/04/2009	1	10:31:17.577	15.18.43.296	6196	Common Scoter	High	4	Sitting	53.30670944	-3.6111253
Rhyl	05/04/2009	1	10:31:17.643	15.18.43.296	6197	Common Scoter	High	4	Sitting	53.30684333	-3.6111178
Rhyl	05/04/2009	1	10:31:17.708	15.18.43.296	6198	Common Scoter	High	6	Sitting	53.30684333	-3.6111178
Rhyl	05/04/2009	1	10:31:17.775	15.18.43.296	6199	Common Scoter	High	2	Sitting	53.30684333	-3.6111178
Rhyl	05/04/2009	1	10:31:17.974	15.18.43.296	6202	Common Scoter	Moderate	1	Sitting	53.30697694	-3.6111097
Rhyl	05/04/2009	1	10:31:18.041	15.18.43.296	6203	Common Scoter	Moderate	1	Sitting	53.30711083	-3.6111017
Rhyl	05/04/2009	1	10:31:18.107	15.18.43.296	6204	Common Scoter	Moderate	4	Sitting	53.30711083	-3.6111017
Rhyl	05/04/2009	1	10:31:18.306	15.18.43.296	6207	Common Scoter	Moderate	1	Sitting	53.30724472	-3.6110931
Rhyl	05/04/2009	1	10:31:18.506	15.18.43.296	6210	Common Scoter	Moderate	2	Sitting	53.30737861	-3.6110844
Rhyl	05/04/2009	1	10:31:18.638	15.18.43.296	6212	Gull	High	1	Flying	53.30751278	-3.6110753
Rhyl	05/04/2009	1	10:31:18.772	15.18.43.296	6214	Common Scoter	High	2	Sitting	53.30751278	-3.6110753
Rhyl	05/04/2009	1	10:31:18.837	15.18.43.296	6215	Common Scoter	High	1	Sitting	53.30764667	-3.6110664
Rhyl	05/04/2009	1	10:31:18.837	15.18.43.296	6215	Common Scoter	High	4	Sitting	53.30764667	-3.6110664
Rhyl	05/04/2009	1	10:31:18.837	15.18.43.296	6215	Common Scoter	High	7	Sitting	53.30764667	-3.6110664
Rhyl	05/04/2009	1	10:31:18.903	15.18.43.296	6216	Common Scoter	High	1	Sitting	53.30764667	-3.6110664
Rhyl	05/04/2009	1	10:31:18.970	15.18.43.296	6217	Common Scoter	High	9	Sitting	53.30764667	-3.6110664
Rhyl	05/04/2009	1	10:31:19.169	15.18.43.296	6220	Common Scoter	High	11	Sitting	53.30778111	-3.6110569
Rhyl	05/04/2009	1	10:31:19.302	15.18.43.296	6222	Gull	High	1	Sitting	53.30791528	-3.6110475
Rhyl	05/04/2009	1	10:31:19.368	15.18.43.296	6223	Gull	High	1	Sitting	53.30791528	-3.6110475
Rhyl	05/04/2009	1	10:31:19.368	15.18.43.296	6223	Common Scoter	High	9	Sitting	53.30791528	-3.6110475
Rhyl	05/04/2009	1	10:31:19.434	15.18.43.296	6224	Common Scoter	High	10	Sitting	53.30791528	-3.6110475
Rhyl	05/04/2009	1	10:31:19.501	15.18.43.296	6225	Common Scoter	High	3	Sitting	53.30804972	-3.6110381
Rhyl	05/04/2009	1	10:31:19.501	15.18.43.296	6225	Gull	High	1	Sitting	53.30804972	-3.6110381
Rhyl	05/04/2009	1	10:31:19.567	15.18.43.296	6226	Common Scoter	High	5	Sitting	53.30804972	-3.6110381
Rhyl	05/04/2009	1	10:31:19.700	15.18.43.296	6228	Common Scoter	High	30	Sitting	53.30818417	-3.6110286
Rhyl	05/04/2009	1	10:31:19.833	15.18.43.296	6230	Common Scoter	High	10	Sitting	53.30818417	-3.6110286
Rhyl	05/04/2009	1	10:31:19.900	15.18.43.296	6231	Common Scoter	High	6	Sitting	53.30818417	-3.6110286
Rhyl	05/04/2009	1	10:31:19.965	15.18.43.296	6232	Common Scoter	High	21	Sitting	53.30831889	-3.6110192

Rhyl	05/04/2009	1	10:31:20.032	15.18.43.296	6233	Common Scoter	High	6	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	1	10:31:20.098	15.18.43.296	6234	Common Scoter	High	7	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	1	10:31:20.165	15.18.43.296	6235	Common Scoter	High	2	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	1	10:31:20.231	15.18.43.296	6236	Gull	High	1	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	1	10:31:20.231	15.18.43.296	6236	Common Scoter	High	6	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	1	10:31:20.364	15.18.43.296	6238	Common Scoter	High	6	Sitting	53.30858806	-3.611
Rhyl	05/04/2009	1	10:31:20.431	15.18.43.296	6239	Gull	High	1	Sitting	53.30858806	-3.611
Rhyl	05/04/2009	1	10:31:20.431	15.18.43.296	6239	Common Scoter	High	3	Sitting	53.30858806	-3.611
Rhyl	05/04/2009	1	10:31:20.496	15.18.43.296	6240	Common Scoter	High	6	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	1	10:31:20.563	15.18.43.296	6241	Common Scoter	High	5	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	1	10:31:20.629	15.18.43.296	6242	Common Scoter	High	5	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	1	10:31:20.762	15.18.43.296	6244	Common Scoter	High	7	Sitting	53.30885778	-3.6109811
Rhyl	05/04/2009	1	10:31:20.829	15.18.43.296	6245	Common Scoter	High	18	Sitting	53.30885778	-3.6109811
Rhyl	05/04/2009	1	10:31:20.961	15.18.43.296	6247	Common Scoter	High	11	Sitting	53.30899278	-3.6109714
Rhyl	05/04/2009	1	10:31:21.027	15.18.43.296	6248	Common Scoter	High	11	Sitting	53.30899278	-3.6109714
Rhyl	05/04/2009	1	10:31:21.094	15.18.43.296	6249	Common Scoter	High	2	Sitting	53.30912778	-3.6109619
Rhyl	05/04/2009	1	10:31:21.160	15.18.43.296	6250	Common Scoter	High	2	Sitting	53.30912778	-3.6109619
Rhyl	05/04/2009	1	10:31:21.227	15.18.43.296	6251	Common Scoter	High	6	Sitting	53.30912778	-3.6109619
Rhyl	05/04/2009	1	10:31:22.023	15.18.43.296	6263	Gull	High	1	Sitting	53.30966833	-3.6109217
Rhyl	05/04/2009	1	10:31:43.130	15.18.43.296	6581	Common Scoter	High	3	Sitting	53.32393056	-3.6102253
Rhyl	05/04/2009	1	10:31:43.196	15.18.43.296	6582	Common Scoter	High	4	Sitting	53.32393056	-3.6102253
Rhyl	05/04/2009	1	10:31:43.395	15.18.43.296	6585	Common Scoter	High	2	Sitting	53.32406417	-3.6102222
Rhyl	05/04/2009	1	10:31:56.138	15.18.43.296	6777	Gull	High	1	Flying	53.33266611	-3.6099183
Rhyl	05/04/2009	1	10:32:09.081	15.18.43.296	6972	Common Scoter	Low	2	Sitting	53.34150944	-3.6095722
Rhyl	05/04/2009	1	10:32:09.214	15.18.43.296	6974	Common Scoter	High	2	Sitting	53.34164833	-3.6095678
Rhyl	05/04/2009	1	10:32:09.347	15.18.43.296	6976	Common Scoter	High	10	Sitting	53.34178722	-3.6095636
Rhyl	05/04/2009	1	10:32:09.479	15.18.43.296	6978	Common Scoter	High	12	Sitting	53.34178722	-3.6095636
Rhyl	05/04/2009	1	10:32:09.612	15.18.43.296	6980	Common Scoter	High	4	Sitting	53.34192639	-3.6095594
Rhyl	05/04/2009	1	10:32:09.679	15.18.43.296	6981	Common Scoter	High	2	Sitting	53.34192639	-3.6095594
Rhyl	05/04/2009	1	10:32:09.745	15.18.43.296	6982	Common Scoter	High	2	Sitting	53.34206528	-3.6095556
Rhyl	05/04/2009	1	10:32:09.811	15.18.43.296	6983	Common Scoter	High	3	Sitting	53.34206528	-3.6095556
Rhyl	05/04/2009	1	10:32:09.878	15.18.43.296	6984	Common Scoter	High	7	Sitting	53.34206528	-3.6095556
Rhyl	05/04/2009	1	10:32:10.010	15.18.43.296	6986	Common Scoter	Moderate	1	Sitting	53.34220444	-3.6095514
Rhyl	05/04/2009	1	10:32:10.475	15.18.43.296	6993	Common Scoter	High	2	Sitting	53.34248222	-3.6095433
Rhyl	05/04/2009	1	10:32:10.541	15.18.43.296	6994	Common Scoter	Moderate	2	Sitting	53.34248222	-3.6095433
Rhyl	05/04/2009	1	10:32:10.873	15.18.43.296	6999	Common Scoter	High	2	Sitting	53.34276028	-3.609535
Rhyl	05/04/2009	1	10:32:11.537	15.18.43.296	7009	Common Scoter	High	8	Sitting	53.34331611	-3.6095186
Rhyl	05/04/2009	1	10:32:11.669	15.18.43.296	7011	Common Scoter	High	5	Sitting	53.34331611	-3.6095186

Rhyl	05/04/2009	1	10:32:11.802	15.18.43.296	7013	Common Scoter	High	3	Sitting	53.343455	-3.6095147
Rhyl	05/04/2009	1	10:32:11.869	15.18.43.296	7014	Common Scoter	High	3	Sitting	53.343455	-3.6095147
Rhyl	05/04/2009	1	10:32:12.068	15.18.43.296	7017	Common Scoter	High	2	Sitting	53.34359361	-3.6095108
Rhyl	05/04/2009	1	10:32:12.135	15.18.43.296	7018	Common Scoter	High	3	Sitting	53.3437325	-3.6095069
Rhyl	05/04/2009	1	10:32:14.126	15.18.43.296	7048	Common Scoter	High	2	Sitting	53.34512	-3.6094736
Rhyl	05/04/2009	1	10:32:41.272	15.18.43.296	7457	Gull	Low	3	Sitting	53.36399	-3.6089728
Rhyl	05/04/2009	1	10:33:07.091	15.18.43.296	7846	Gull	Low	1	Sitting	53.38190639	-3.6087228
Rhyl	05/04/2009	1	10:33:47.047	15.18.43.296	8448	Gull	Moderate	2	Flying	53.40919167	-3.6079825
Rhyl	05/04/2009	1	10:41:39.885	15.18.43.296	11835	Gull	Moderate	1	Sitting	53.29693306	-3.5806406
Rhyl	05/04/2009	1	10:42:33.447	15.18.43.296	12642	Gull	Moderate	2	Sitting	53.33323583	-3.5793819
Rhyl	05/04/2009	1	10:43:05.638	15.18.43.296	13127	Gull	Moderate	1	Flying	53.35514583	-3.5787339
Rhyl	05/04/2009	1	10:43:32.121	15.18.43.296	13526	Gull	Low	1	Sitting	53.37285694	-3.5781822
Rhyl	05/04/2009	1	10:53:04.580	15.44.51.484	4024	Gull	Moderate	1	Sitting	53.345395	-3.5485083
Rhyl	05/04/2009	1	10:53:10.052	15.44.51.484	4111	Gull	High	1	Flying	53.34912333	-3.5484097
Rhyl	05/04/2009	1	10:53:34.306	15.44.51.484	4472	Gull	Low	2	Sitting	53.36516	-3.5479947
Rhyl	05/04/2009	1	11:03:12.684	15.44.51.484	9187	Auk	Low	1	Sitting	53.319115	-3.5197117
Rhyl	05/04/2009	1	11:03:26.752	15.44.51.484	9399	Gull	Moderate	1	Flying	53.32872611	-3.5195753
Rhyl	05/04/2009	1	11:13:57.487	16.12.05.843	567	Gull	Moderate	1	Sitting	53.34159167	-3.4884919
Rhyl	05/04/2009	1	11:13:57.553	16.12.05.843	568	Gull	Moderate	1	Sitting	53.34172694	-3.4884864
Rhyl	05/04/2009	1	11:14:39.160	16.12.05.843	1195	Common Scoter	High	2	Sitting	53.36927917	-3.4874889
Rhyl	05/04/2009	1	11:14:39.424	16.12.05.843	1199	Common Scoter	Low	2	Sitting	53.36941167	-3.4874861
Rhyl	05/04/2009	1	11:14:41.084	16.12.05.843	1224	Common Scoter	Moderate	2	Sitting	53.37060361	-3.4874597
Rhyl	05/04/2009	1	11:20:06.903	16.12.05.843	4073	Common Scoter	Moderate	2	Sitting	53.37872694	-3.4733064
Rhyl	05/04/2009	1	11:21:09.744	16.12.05.843	5020	Gull	High	1	Flying	53.34046333	-3.4739064
Rhyl	05/04/2009	1	11:23:51.790	16.12.05.843	5724	Auk	Low	1	Sitting	53.34087333	-3.4584106
Rhyl	05/04/2009	1	11:24:00.683	16.12.05.843	5858	Gull	High	1	Flying	53.34721583	-3.4581903
Rhyl	05/04/2009	1	11:24:10.968	16.12.05.843	6013	Gull	Low		Sitting	53.35479861	-3.4580681
Rhyl	05/04/2009	1	11:24:14.949	16.12.05.843	6073	Gull	Low	1	Sitting	53.35771222	-3.4580217
Rhyl	05/04/2009	1	11:24:15.015	16.12.05.843	6074	Gull	Low	1	Sitting	53.35771222	-3.4580217
Rhyl	05/04/2009	1	11:24:27.226	16.12.05.843	6258	Gull	Moderate	1	Sitting	53.36655139	-3.4577628
Rhyl	05/04/2009	1	11:24:27.292	16.12.05.843	6259	Gull	Moderate	1	Sitting	53.36655139	-3.4577628
Rhyl	05/04/2009	1	11:24:27.358	16.12.05.843	6260	Gull	Moderate	1	Sitting	53.36669583	-3.4577597
Rhyl	05/04/2009	1	11:25:23.896	16.12.05.843	7112	Gull	High	1	Sitting	53.40725472	-3.4574317
Rhyl	05/04/2009	1	11:25:26.020	16.12.05.843	7144	Gull	High	1	Flying	53.40870861	-3.4574364
Rhyl	05/04/2009	1	11:25:27.546	16.12.05.843	7167	Gull	High	3	Sitting	53.40987056	-3.4574381
Rhyl	05/04/2009	1	11:25:27.811	16.12.05.843	7171	Gull	High	1	Flying	53.41001556	-3.4574383
Rhyl	05/04/2009	1	11:33:55.257	16.12.05.843	10600	Gull	High	1	Flying	53.34906417	-3.4273856

Rhyl	05/04/2009	1	11:33:56.255	16.12.05.843	10615	Gull	High	1	Flying	53.3497275	-3.4273786
Rhyl	05/04/2009	1	11:34:03.485	16.12.05.843	10724	Gull	High	1	Flying	53.35453861	-3.4273578
Rhyl	05/04/2009	1	11:34:34.408	16.12.05.843	11190	Common Scoter	High	7	Sitting	53.37519833	-3.4270933
Rhyl	05/04/2009	1	11:34:34.475	16.12.05.843	11191	Common Scoter	High	2	Sitting	53.37519833	-3.4270933
Rhyl	05/04/2009	1	11:34:35.802	16.12.05.843	11211	Common Scoter	High	9	Flying	53.37615111	-3.4270728
Rhyl	05/04/2009	1	11:35:21.258	16.12.05.843	11896	Gull	Moderate	1	Sitting	53.40742528	-3.4263786
Rhyl	05/04/2009	1	11:35:46.142	16.12.05.843	12271	Gull	High	1	Flying	53.42481889	-3.4261311
Rhyl	05/04/2009	1	11:35:57.954	16.12.05.843	12449	Gull	Moderate	1	Sitting	53.432865	-3.4260642
Rhyl	05/04/2009	1	11:43:42.136	16.36.40.906	2207	Gull	Low	1	Sitting	53.34613833	-3.3978678
Rhyl	05/04/2009	1	11:43:42.601	16.36.40.906	2214	Gull	Low	4	Sitting	53.34653611	-3.3978425
Rhyl	05/04/2009	1	11:43:42.667	16.36.40.906	2215	Gull	Low	1	Sitting	53.34653611	-3.3978425
Rhyl	05/04/2009	1	11:43:45.188	16.36.40.906	2253	Gull	High	1	Flying	53.34826194	-3.3977358
Rhyl	05/04/2009	1	11:43:45.389	16.36.40.906	2256	Gull	High	1	Sitting	53.34826194	-3.3977358
Rhyl	05/04/2009	1	11:43:45.454	16.36.40.906	2257	Gull	High	8	Sitting	53.34826194	-3.3977358
Rhyl	05/04/2009	1	11:43:45.521	16.36.40.906	2258	Gull	High	5	Sitting	53.348395	-3.3977272
Rhyl	05/04/2009	1	11:43:45.587	16.36.40.906	2259	Gull	High	3	Sitting	53.34852806	-3.3977186
Rhyl	05/04/2009	1	11:43:45.653	16.36.40.906	2260	Gull	High	3	2 Sit/ 1 fly	53.34852806	-3.3977186
Rhyl	05/04/2009	1	11:43:46.052	16.36.40.906	2266	Gull	High	3	Sitting	53.34879417	-3.3977019
Rhyl	05/04/2009	1	11:43:50.299	16.36.40.906	2330	Gull	High	1	Flying	53.3515925	-3.39755
Rhyl	05/04/2009	1	11:44:27.393	16.36.40.906	2889	Herring Gull	High	1	Flying	53.37646056	-3.3970711
Rhyl	05/04/2009	1	11:45:39.857	16.36.40.906	3981	Gull	High	1	Flying	53.42705028	-3.3959267
Rhyl	05/04/2009	1	11:50:16.044	16.36.40.906	5871	Gull	High	1	Sitting	53.36626528	-3.3675181
Rhyl	05/04/2009	1	11:50:16.109	16.36.40.906	5872	Gull	High	4	Sitting	53.36626528	-3.3675181
Rhyl	05/04/2009	1	11:50:16.176	16.36.40.906	5873	Gull	High	4	Sitting	53.36613472	-3.3675211
Rhyl	05/04/2009	1	11:50:16.309	16.36.40.906	5875	Gull	High	1	Sitting	53.36600444	-3.3675244
Rhyl	05/04/2009	1	11:50:16.507	16.36.40.906	5878	Gull	High	2	Sitting	53.36600444	-3.3675244
Rhyl	05/04/2009	1	11:50:16.575	16.36.40.906	5879	Gull	High	3	Sitting	53.36587389	-3.3675278
Rhyl	05/04/2009	1	11:50:16.707	16.36.40.906	5881	Gull	High	1	Flying	53.36587389	-3.3675278
Rhyl	05/04/2009	1	11:50:17.504	16.36.40.906	5893	Gull	High	5	Sitting	53.36535194	-3.3675406
Rhyl	05/04/2009	1	11:50:17.835	16.36.40.906	5898	Gull	High	1	Flying	53.36509083	-3.3675464
Rhyl	05/04/2009	1	11:50:19.826	16.36.40.906	5928	Gull	High	3	Flying	53.36378472	-3.3675714
Rhyl	05/04/2009	1	11:50:22.546	16.36.40.906	5969	Gull	High	1	Flying	53.362085	-3.3676117
Rhyl	05/04/2009	1	11:53:02.140	16.36.40.906	6346	Gull	High	1	Flying	53.35273194	-3.3528492
Rhyl	05/04/2009	1	11:53:02.737	16.36.40.906	6355	Gull	High	1	Flying	53.35313778	-3.3528508
Rhyl	05/04/2009	1	11:53:09.240	16.36.40.906	6453	Gull	High	5	Sitting	53.3576	-3.3529328
Rhyl	05/04/2009	1	11:53:09.373	16.36.40.906	6455	Gull	High	2	Sitting	53.3576	-3.3529328
Rhyl	05/04/2009	1	11:54:48.447	16.36.40.906	7948	Gull	High	1	Flying	53.42475028	-3.3509247
Rhyl	05/04/2009	1	11:55:08.289	16.36.40.906	8247	Gull	High	3	Sitting	53.43776722	-3.3508856

Rhyl	05/04/2009	1	11:59:21.780	16.36.40.906	9746	Gull	Low	1	Sitting	53.38639333	-3.3375578
Rhyl	05/04/2009	1	11:59:54.362	16.36.40.906	10237	Gull	High		Flying	53.36498528	-3.3386844
Rhyl	05/04/2009	1	12:02:09.204	17.00.45.078	151	Gull	High	2	Sitting	53.35889917	-3.3231944
Rhyl	05/04/2009	1	12:02:09.337	17.00.45.078	153	Gull	High	1	Sitting	53.35917444	-3.3232119
Rhyl	05/04/2009	1	12:02:09.403	17.00.45.078	154	Gull	High	4	Sitting	53.35917444	-3.3232119
Rhyl	05/04/2009	1	12:02:09.470	17.00.45.078	155	Gull	High	4	Sitting	53.35917444	-3.3232119
Rhyl	05/04/2009	1	12:02:09.536	17.00.45.078	156	Gull	High	19	Sitting	53.35931194	-3.3232206
Rhyl	05/04/2009	1	12:02:09.602	17.00.45.078	157	Gull	High	6	Sitting	53.35931194	-3.3232206
Rhyl	05/04/2009	1	12:02:09.668	17.00.45.078	158	Gull	High	22	Sitting	53.35931194	-3.3232206
Rhyl	05/04/2009	1	12:02:09.735	17.00.45.078	159	Gull	High	9	Sitting	53.35944944	-3.3232289
Rhyl	05/04/2009	1	12:02:09.801	17.00.45.078	160	Gull	High	7	Sitting	53.35944944	-3.3232289
Rhyl	05/04/2009	1	12:02:09.869	17.00.45.078	161	Gull	High	9	Sitting	53.35944944	-3.3232289
Rhyl	05/04/2009	1	12:02:28.714	17.00.45.078	445	Gull	High	1	Sitting	53.37236694	-3.3234228
Rhyl	05/04/2009	1	12:02:28.979	17.00.45.078	449	Gull	High	1	Sitting	53.37264	-3.3234094
Rhyl	05/04/2009	1	12:02:29.311	17.00.45.078	454	Gull	High	2	Sitting	53.37277667	-3.3234031
Rhyl	05/04/2009	1	12:02:29.443	17.00.45.078	456	Gull	High	1	Sitting	53.37277667	-3.3234031
Rhyl	05/04/2009	1	12:02:29.643	17.00.45.078	459	Gull	High	2	Sitting	53.37304972	-3.32339
Rhyl	05/04/2009	1	12:02:55.058	17.00.45.078	842	Gull	High	1	Flying	53.3901125	-3.3224472
Rhyl	05/04/2009	1	12:03:07.335	17.00.45.078	1027	Gull	High	1	Sitting	53.39820167	-3.3222886
Rhyl	05/04/2009	1	12:04:15.354	17.00.45.078	2052	Porpoise	High	1	Swimming	53.44499139	-3.3203078
Rhyl	05/04/2009	1	12:04:15.552	17.00.45.078	2055	Gull	High	1	Flying	53.44513167	-3.3202986
Rhyl	05/04/2009	1	12:04:18.140	17.00.45.078	2094	Gull	Low	3	Sitting	53.44696222	-3.3201731
Rhyl	05/04/2009	1	12:07:00.589	17.00.45.078	2358	Gull	High	1	Flying	53.44879778	-3.3052975
Rhyl	05/04/2009	1	12:08:31.369	17.00.45.078	3726	Auk	Low	1	Sitting	53.39233583	-3.3081369
Rhyl	05/04/2009	1	12:08:31.369	17.00.45.078	3726	Gull	Moderate	1	Sitting	53.39233583	-3.3081369
Rhyl	05/04/2009	1	12:08:31.502	17.00.45.078	3728	Auk	Low	2	Sitting	53.39220722	-3.3081411
Rhyl	05/04/2009	1	12:08:31.569	17.00.45.078	3729	Auk	Low	3	Sitting	53.39220722	-3.3081411
Rhyl	05/04/2009	1	12:09:16.428	17.00.45.078	4405	Gull	High	3	Feeding	53.36263444	-3.3083122
Rhyl	05/04/2009	1	12:09:16.496	17.00.45.078	4406	Gull	High	2	Feeding	53.36263444	-3.3083122
Rhyl	05/04/2009	1	12:09:16.629	17.00.45.078	4408	Gull	High	61	Feeding	53.36250361	-3.3083131
Rhyl	05/04/2009	1	12:11:58.014	17.00.45.078	5038	Gull	Low	1	Sitting	53.38201222	-3.2927347
Rhyl	05/04/2009	1	12:11:59.607	17.00.45.078	5062	Gull	Moderate	1	Sitting	53.38311222	-3.2926839
Rhyl	05/04/2009	1	12:12:00.270	17.00.45.078	5072	Gull	High	1	Flying	53.38366278	-3.2926572
Rhyl	05/04/2009	1	12:13:04.639	17.00.45.078	6042	Gull	Moderate	1	Sitting	53.42833611	-3.2906142
Rhyl	05/04/2009	1	12:13:04.706	17.00.45.078	6043	Gull	Moderate	1	Sitting	53.42833611	-3.2906142
Rhyl	05/04/2009	1	12:13:05.038	17.00.45.078	6048	Gull	Moderate	2	Sitting	53.4286175	-3.2906028
Rhyl	05/04/2009	1	12:13:05.170	17.00.45.078	6050	Gull	Moderate	2	Sitting	53.42875806	-3.2905972
Rhyl	05/04/2009	1	12:13:05.503	17.00.45.078	6055	Gull	Moderate	1	Sitting	53.42889861	-3.2905919

Rhyl	05/04/2009	1	12:13:05.635	17.00.45.078	6057	Gull	Moderate	2	Sitting	53.42903944	-3.2905864
Rhyl	05/04/2009	1	12:13:06.232	17.00.45.078	6066	Gull	Moderate	1	Sitting	53.42946056	-3.29057
Rhyl	05/04/2009	1	12:13:07.560	17.00.45.078	6086	Gull	Moderate	2	Sitting	53.43044333	-3.2905397
Rhyl	05/04/2009	1	12:13:18.443	17.00.45.078	6250	Gull	Low	1	Sitting	53.43798306	-3.2904242
Rhyl	05/04/2009	1	12:13:18.974	17.00.45.078	6258	Gull	Moderate	1	Sitting	53.43826306	-3.2904181
Rhyl	05/04/2009	1	12:17:18.735	17.00.45.078	8001	Auk	High	4	Sitting	53.41245333	-3.2769411
Rhyl	05/04/2009	1	12:17:24.509	17.00.45.078	8088	Auk	Moderate	2	Sitting	53.40872306	-3.2769536
Rhyl	05/04/2009	1	12:17:24.641	17.00.45.078	8090	Auk	Moderate	1	Sitting	53.40872306	-3.2769536
Rhyl	05/04/2009	1	12:21:03.057	17.00.45.078	9488	Gull	Low	1	Sitting	53.384745	-3.2630017
Rhyl	05/04/2009	1	12:21:55.090	17.00.45.078	10272	Gull	Low	1	Sitting	53.42117556	-3.2616503
Rhyl	05/04/2009	1	12:21:56.152	17.00.45.078	10288	Gull	Moderate	1	Sitting	53.42187556	-3.2616194
Rhyl	05/04/2009	1	12:21:56.218	17.00.45.078	10289	Gull	Moderate	1	Sitting	53.42201556	-3.2616133
Rhyl	05/04/2009	1	12:22:39.091	17.00.45.078	10935	Gull	Low	1	Sitting	53.45244111	-3.2597131
Rhyl	05/04/2009	1	12:22:44.467	17.00.45.078	11016	Gull	Low	1	Sitting	53.45616056	-3.2593483
Rhyl	08/04/2009	1	09:38:17.872	14.28.58.796	4595	Phalarocorax	High	1	Flying	53.39019333	-3.2183769
Rhyl	08/04/2009	1	09:40:54.308	14.28.58.796	4894	Gull	High	2		53.39508833	-3.2035886
Rhyl	08/04/2009	1	09:41:00.282	14.28.58.796	4978	Gull	High	1	Loafing	53.39892861	-3.2033489
Rhyl	08/04/2009	1	09:41:10.370	14.28.58.796	5130	Auk	Low	1	Sitting	53.405945	-3.2029303
Rhyl	08/04/2009	1	09:38:19.132	14.28.58.796	4610	Gull	Moderate	1	Loafing	53.38956417	-3.2184
Rhyl	08/04/2009	1	09:41:22.914	14.28.58.796	5319	Auk	High	1	Sitting	53.41441194	-3.2025231
Rhyl	08/04/2009	1	09:47:12.426	14.28.58.796	8386	Common Scoter	High	4	Flying	53.43871139	-3.1858747
Rhyl	08/04/2009	1	09:47:13.156	14.28.58.796	8397	Common Scoter	High	6	Flying	53.43820333	-3.1859022
Rhyl	08/04/2009	1	09:47:49.329	14.28.58.796	8942	Gull	High	1	Flying	53.41507028	-3.1877297
Rhyl	08/04/2009	1	09:50:46.544	14.28.58.796	9726	Gull	High	1	Loafing	53.41217833	-3.1739022
Rhyl	08/04/2009	1	09:50:48.469	14.28.58.796	9755	Gull	High	1	Loafing	53.41348333	-3.17381
Rhyl	08/04/2009	1	09:52:07.982	14.28.58.796	10953	Diver	High	1	Flying	53.46958861	-3.1699528
Rhyl	08/04/2009	1	09:56:52.779	14.52.47.312	1769	Gull	High	1	Loafing	53.42373611	-3.1574308
Rhyl	08/04/2009	1	09:56:52.978	14.52.47.312	1770	Gull	High	1	Loafing	53.42361194	-3.1574356
Rhyl	08/04/2009	1	09:56:53.044	14.52.47.312	1773	Gull	High	2	Loafing	53.42348806	-3.15744
Rhyl	08/04/2009	1	09:56:53.111	14.52.47.312	1774	Gull	High	1	Loafing	53.42348806	-3.15744
Rhyl	08/04/2009	1	09:56:53.177	14.52.47.312	1775	Gull	High	4	Loafing	53.42336389	-3.1574447
Rhyl	08/04/2009	1	09:56:53.376	14.52.47.312	1778	Gull	High	1	Loafing	53.42336389	-3.1574447
Rhyl	08/04/2009	1	09:56:53.575	14.52.47.312	1781	Gull	High	1	Loafing	53.42324	-3.1574494
Rhyl	08/04/2009	1	09:57:13.487	14.52.47.312	2081	Gull	Low	1	Loafing	53.41084639	-3.1582308
Rhyl	08/04/2009	1	09:59:19.192	14.52.47.312	2442	Gull	Moderate	1	Loafing	53.41783222	-3.1427097
Rhyl	08/04/2009	1	09:59:19.527	14.52.47.312	2447	Gull	High	1	Loafing	53.4181125	-3.1426928
Rhyl	08/04/2009	1	09:59:19.657	14.52.47.312	2449	Gull	High	1	Loafing	53.4181125	-3.1426928
Rhyl	08/04/2009	1	09:59:20.984	14.52.47.312	2469	Gull	High	1	Loafing	53.41909472	-3.1426328

Rhyl	08/04/2009	1	09:59:21.117	14.52.47.312	2471	Gull	High	1	Loafing	53.419235	-3.1426242
Rhyl	08/04/2009	1	09:59:21.316	14.52.47.312	2474	Gull	High	2	Loafing	53.41937528	-3.1426158
Rhyl	08/04/2009	1	09:59:22.378	14.52.47.312	2490	Gull	High	1	Flying	53.4200775	-3.1425725
Rhyl	08/04/2009	1	09:59:22.777	14.52.47.312	2496	Gull	High	1	Loafing	53.42035861	-3.1425547
Rhyl	08/04/2009	1	09:59:22.977	14.52.47.312	2499	Gull	High	1	Loafing	53.42049917	-3.1425458
Rhyl	08/04/2009	1	09:59:23.000	14.52.47.312	2500	Gull	High	2	Loafing	53.42049917	-3.1425458
Rhyl	08/04/2009	1	09:59:23.174	14.52.47.312	2502	Gull	High	2	Loafing	53.42063944	-3.1425367
Rhyl	08/04/2009	1	09:59:23.374	14.52.47.312	2505	Gull	High	2	Flying	53.42078028	-3.1425275
Rhyl	08/04/2009	1	09:59:23.639	14.52.47.312	2509	Gull	High	1	Loafing	53.42092083	-3.1425183
Rhyl	08/04/2009	1	09:59:23.705	14.52.47.312	2510	Gull	High	1	Loafing	53.42106139	-3.1425089
Rhyl	08/04/2009	1	09:59:23.772	14.52.47.312	2511	Gull	High	2	Loafing	53.42106139	-3.1425089
Rhyl	08/04/2009	1	10:05:02.328	14.52.47.312	5785	Gull	High	2	Loafing	53.42709278	-3.1278175
Rhyl	08/04/2009	1	10:05:02.395	14.52.47.312	5786	Gull	High	3	Loafing	53.42709278	-3.1278175
Rhyl	08/04/2009	1	10:05:02.527	14.52.47.312	5788	Gull	High	1	Loafing	53.42696528	-3.1278247
Rhyl	08/04/2009	1	10:05:02.593	14.52.47.312	5789	Gull	High	2	Loafing	53.42696528	-3.1278247
Rhyl	08/04/2009	1	10:05:03.190	14.52.47.312	5798	Gull	High	2	Loafing	53.42658222	-3.1278458
Rhyl	08/04/2009	1	10:05:03.323	14.52.47.312	5800	Gull	High	1	Loafing	53.42645444	-3.1278528
Rhyl	08/04/2009	1	10:05:03.390	14.52.47.312	5801	Gull	High	2	Loafing	53.42645444	-3.1278528
Rhyl	08/04/2009	1	10:05:03.523	14.52.47.312	5803	Gull	High	1	Loafing	53.42645444	-3.1278528
Rhyl	08/04/2009	1	10:05:03.655	14.52.47.312	5805	Gull	High	1	Loafing	53.42632667	-3.1278597
Rhyl	08/04/2009	1	10:05:03.721	14.52.47.312	5806	Gull	High	1	Loafing	53.42619889	-3.1278667
Rhyl	08/04/2009	1	10:05:03.788	14.52.47.312	5807	Gull	High	2	Loafing	53.42619889	-3.1278667
Rhyl	08/04/2009	1	10:05:03.921	14.52.47.312	5809	Gull	High	2	Loafing	53.42607111	-3.1278742
Rhyl	08/04/2009	1	10:05:04.053	14.52.47.312	5811	Gull	High	4	Loafing	53.42607111	-3.1278742
Rhyl	08/04/2009	1	10:05:04.186	14.52.47.312	5813	Gull	High	4	Loafing	53.42594333	-3.1278814
Rhyl	08/04/2009	1	10:05:04.252	14.52.47.312	5814	Gull	High	1	Loafing	53.42594333	-3.1278814
Rhyl	08/04/2009	1	10:05:04.385	14.52.47.312	5816	Gull	High	1	Loafing	53.42581556	-3.1278889
Rhyl	08/04/2009	1	10:05:04.452	14.52.47.312	5817	Gull	High	2	Loafing	53.42581556	-3.1278889
Rhyl	08/04/2009	1	10:05:05.049	14.52.47.312	5826	Gull	High	1	Loafing	53.42543194	-3.1279119
Rhyl	08/04/2009	1	10:05:05.184	14.52.47.312	5828	Gull	High	2	Loafing	53.42530417	-3.1279197
Rhyl	08/04/2009	1	10:05:05.646	14.52.47.312	5835	Gull	High	1	Loafing	53.42504861	-3.1279353
Rhyl	08/04/2009	1	10:05:06.177	14.52.47.312	5843	Gull	Low	1	Loafing	53.424665	-3.1279592
Rhyl	08/04/2009	1	10:05:06.509	14.52.47.312	5848	Wader	Low	1	Loafing	53.42453694	-3.1279672
Rhyl	08/04/2009	1	10:05:06.509	14.52.47.312	5848	Gull	High	1	Loafing	53.42453694	-3.1279672
Rhyl	08/04/2009	1	10:05:06.907	14.52.47.312	5854	Gull	High	1	Loafing	53.42415333	-3.1279911
Rhyl	08/04/2009	1	10:05:07.107	14.52.47.312	5857	Gull	High	1	Loafing	53.42402528	-3.1279989
Rhyl	08/04/2009	1	10:05:07.307	14.52.47.312	5860	Gull	High	1	Loafing	53.42389722	-3.1280067
Rhyl	08/04/2009	1	10:05:07.439	14.52.47.312	5862	Gull	High	4	Loafing	53.42389722	-3.1280067

Rhyl	08/04/2009	1	10:05:12.615	14.52.47.312	5940	Gull	High	1	Loafing	53.4205675	-3.1282014
Rhyl	08/04/2009	1	10:05:12.815	14.52.47.312	5943	Gull	High	2	Loafing	53.42043944	-3.1282092
Rhyl	08/04/2009	1	10:07:17.392	14.52.47.312	6138	Wader	Low	2	Loafing	53.41962444	-3.1129469
Rhyl	08/04/2009	1	10:07:17.458	14.52.47.312	6139	Gull	High	1	Loafing	53.41962444	-3.1129469
Rhyl	08/04/2009	1	10:07:17.591	14.52.47.312	6141	Gull	High	1	Loafing	53.4197625	-3.1129408
Rhyl	08/04/2009	1	10:07:17.857	14.52.47.312	6145	Gull	High	2	Loafing	53.4197625	-3.1129408
Rhyl	08/04/2009	1	10:07:17.923	14.52.47.312	6146	Wader	Low	1	Loafing	53.41990056	-3.1129347
Rhyl	08/04/2009	1	10:07:18.122	14.52.47.312	6149	Gull	High	1	Loafing	53.42003861	-3.1129292
Rhyl	08/04/2009	1	10:07:18.188	14.52.47.312	6150	Gull	High	1	Flying	53.42017639	-3.1129233
Rhyl	08/04/2009	1	10:07:18.454	14.52.47.312	6154	Gull	High	1	Flying	53.42031444	-3.1129172
Rhyl	08/04/2009	1	10:07:19.516	14.52.47.312	6170	Gull	High	1	Flying	53.421005	-3.11288
Rhyl	08/04/2009	1	10:09:07.567	14.52.47.312	7798	Gull	High	1	Flying	53.49388306	-3.1077197
Rhyl	08/04/2009	1	10:09:08.031	14.52.47.312	7805	Gull	High	1	Loafing	53.49428944	-3.1076797
Rhyl	08/04/2009	1	10:09:08.098	14.52.47.312	7806	Gull	High	2	Loafing	53.49428944	-3.1076797
Rhyl	08/04/2009	1	10:09:08.429	14.52.47.312	7811	Gull	High	1	Loafing	53.49456028	-3.1076525
Rhyl	08/04/2009	1	10:09:09.956	14.52.47.312	7834	Gull	High	2	Flying	53.49550556	-3.1075564
Rhyl	08/04/2009	1	10:09:10.022	14.52.47.312	7835	Gull	High	1	Flying	53.49564056	-3.1075422
Rhyl	08/04/2009	1	10:09:11.217	14.52.47.312	7853	Gull	High	1	Loafing	53.49644861	-3.1074553
Rhyl	08/04/2009	1	10:09:11.284	14.52.47.312	7845	Gull	High	2	Loafing	53.49604472	-3.1074994
Rhyl	08/04/2009	1	10:09:11.350	14.52.47.312	7855	Gull	High	4	Loafing	53.49644861	-3.1074553
Rhyl	08/04/2009	1	10:09:11.483	14.52.47.312	7857	Gull	High	3	Loafing	53.49658306	-3.1074406
Rhyl	08/04/2009	1	10:09:11.615	14.52.47.312	7859	Gull	High	1	Loafing	53.49671722	-3.1074258
Rhyl	08/04/2009	1	10:09:11.682	14.52.47.312	7860	Gull	High	1	Loafing	53.49671722	-3.1074258
Rhyl	08/04/2009	1	10:09:11.814	14.52.47.312	7862	Gull	High	1	Flying	53.49671722	-3.1074258
Rhyl	08/04/2009	1	10:12:52.630	14.52.47.312	9375	Gull	Low	1	Loafing	53.43177722	-3.0970731
Rhyl	08/04/2009	1	10:12:54.753	14.52.47.312	9407	Gull	Low	2	Loafing	53.43051028	-3.0971794
Rhyl	08/04/2009	1	10:14:55.216	14.52.47.312	9611	Gull	High	1	Loafing	53.43106861	-3.0821514
Rhyl	08/04/2009	1	10:14:55.282	14.52.47.312	9612	Gull	High	3	Loafing	53.43121056	-3.0821369
Rhyl	08/04/2009	1	10:14:55.481	14.52.47.312	9615	Gull	High	3	Loafing	53.4313525	-3.0821225
Rhyl	08/04/2009	1	10:14:55.547	14.52.47.312	9616	Gull	High	2	Loafing	53.4313525	-3.0821225
Rhyl	08/04/2009	1	10:14:55.614	14.52.47.312	9617	Gull	High	1	Loafing	53.4313525	-3.0821225
Rhyl	08/04/2009	1	10:14:55.681	14.52.47.312	9618	Gull	High	3	Loafing	53.43149444	-3.0821078
Rhyl	08/04/2009	1	10:14:55.946	14.52.47.312	9622	Gull	High	1	Loafing	53.43163639	-3.0820933
Rhyl	08/04/2009	1	10:18:41.150	15.16.52.312	86	Oystercatchers	High	1	Flying	53.49197722	-3.0629819
Rhyl	08/04/2009	1	10:18:42.942	15.16.52.312	113	Oystercatchers	High	1	Flying	53.49083139	-3.0630406
Rhyl	08/04/2009	1	10:18:43.407	15.16.52.312	120	Gull	High	2	Flying	53.49057667	-3.0630544
Rhyl	08/04/2009	1	10:18:43.540	15.16.52.312	122	Gull	High	1	Loafing	53.49044917	-3.0630614
Rhyl	08/04/2009	1	10:19:56.882	15.16.52.312	1227	Gull	High	8	Loafing	53.44368944	-3.0659575

Rhyl	08/04/2009	1	10:19:57.148	15.16.52.312	1231	Gull	High	1	Loafing	53.44356139	-3.0659667
Rhyl	08/04/2009	1	10:19:58.676	15.16.52.312	1254	Gull	High	10	Loafing	53.44253528	-3.0660378
Rhyl	08/04/2009	1	10:19:58.874	15.16.52.312	1257	Gull	High	4	Loafing	53.44240694	-3.0660467
Rhyl	08/04/2009	1	10:22:05.697	15.16.52.312	1579	Gull	High	1	Flying	53.44653306	-3.0495725
Rhyl	08/04/2009	2	09:41:06.000	14.28.58.921	5063	Cormorant	High	1	Flying	53.40277972	-3.2031086
Rhyl	08/04/2009	2	09:47:51.396	14.28.58.921	8977	Greater BB	Moderate	2		53.41365861	-3.1878942
Rhyl	08/04/2009	2	14:50:48.267	14.28.58.921	9756	Gull	High	1	Flying	53.41348333	-3.17381
Rhyl	08/04/2009	2	14:50:48.598	14.28.58.921	9761	Gull	Moderate	5	Sitting	53.41377306	-3.1737889
Rhyl	08/04/2009	2	14:50:49.931	14.28.58.921	9766	Gull	High	2	Flying	53.41406278	-3.1737678
Rhyl	08/04/2009	2	09:59:07.568	14.52.47.437	2270	Gull	Moderate	1	Sitting	53.40988056	-3.1433575
Rhyl	08/04/2009	2	09:59:07.635	14.52.47.437	2271	Gull	Moderate	1	Sitting	53.40988056	-3.1433575
Rhyl	08/04/2009	2	09:59:20.774	14.52.47.437	2469	Gull	Moderate	1	Sitting	53.41909472	-3.1426328
Rhyl	08/04/2009	2	09:59:21.172	14.52.47.437	2475	Gull	Moderate	2	Sitting	53.41937528	-3.1426158
Rhyl	08/04/2009	2	09:59:22.234	14.52.47.437	2491	Gull	High	4	Sitting	53.4200775	-3.1425725
Rhyl	08/04/2009	2	09:59:22.300	14.52.47.437	2492	Gull	High	1	Sitting	53.42021806	-3.1425639
Rhyl	08/04/2009	2	09:59:22.500	14.52.47.437	2495	Gull	High	1	Sitting	53.42035861	-3.1425547
Rhyl	08/04/2009	2	09:59:22.831	14.52.47.437	2500	Gull	Moderate	1	Sitting	53.42049917	-3.1425458
Rhyl	08/04/2009	2	09:59:23.030	14.52.47.437	2503	Gull	Moderate	2	Sitting	53.42063944	-3.1425367
Rhyl	08/04/2009	2	09:59:23.096	14.52.47.437	2504	Gull	Moderate	1	Sitting	53.42063944	-3.1425367
Rhyl	08/04/2009	2	10:07:17.768	14.52.47.437	6147	Gull	Moderate	1	Sitting	53.42003861	-3.1129292
Rhyl	08/04/2009	2	10:07:17.835	14.52.47.437	6148	Gull	Moderate	1	Sitting	53.42003861	-3.1129292
Rhyl	08/04/2009	2	10:07:17.901	14.52.47.437	6149	Gull	High	3	Sitting	53.42003861	-3.1129292
Rhyl	08/04/2009	2	10:07:17.968	14.52.47.437	6150	Gull	High	2	Flying	53.42017639	-3.1129233
Rhyl	08/04/2009	2	10:07:18.100	14.52.47.437	6152	Gull	High	2	Sitting	53.42017639	-3.1129233
Rhyl	08/04/2009	2	10:07:18.166	14.52.47.437	6153	Oystercatchers	Moderate	1	Sitting	53.42017639	-3.1129233
Rhyl	08/04/2009	2	10:07:18.233	14.52.47.437	6154	Gull	Moderate	2	Sitting	53.42031444	-3.1129172
Rhyl	08/04/2009	2	10:07:18.366	14.52.47.437	6156	Gull	Moderate	4	Sitting	53.4204525	-3.1129108
Rhyl	08/04/2009	2	10:07:18.432	14.52.47.437	6157	Gull	Moderate	1	Flying	53.4204525	-3.1129108
Rhyl	08/04/2009	2	10:07:18.498	14.52.47.437	6158	Gull	Moderate	1	Sitting	53.4204525	-3.1129108
Rhyl	08/04/2009	2	10:07:18.565	14.52.47.437	6159	Gull	Moderate	2	Sitting	53.4204525	-3.1129108
Rhyl	08/04/2009	2	10:07:18.631	14.52.47.437	6160	Wader	Low	1	Sitting	53.4204525	-3.1129108
Rhyl	08/04/2009	2	10:07:18.698	14.52.47.437	6161	Wader	Low	3	Sitting	53.42059056	-3.1129042
Rhyl	08/04/2009	2	10:07:18.830	14.52.47.437	6163	Gull	Moderate	1	Sitting	53.42072861	-3.1128967
Rhyl	08/04/2009	2	10:07:19.095	14.52.47.437	6167	Gull	Moderate	1	Sitting	53.42086667	-3.1128886
Rhyl	08/04/2009	2	10:07:19.162	14.52.47.437	6168	Gull	Moderate	1	Sitting	53.421005	-3.11288
Rhyl	08/04/2009	2	10:09:06.864	14.52.47.437	7791	Gull	High	2	Sitting	53.49361194	-3.1077458
Rhyl	08/04/2009	2	10:09:06.930	14.52.47.437	7792	Gull	High	2	Sitting	53.49361194	-3.1077458
Rhyl	08/04/2009	2	10:09:06.997	14.52.47.437	7793	Gull	High	2	Sitting	53.49361194	-3.1077458

Rhyl	08/04/2009	2	10:09:07.063	14.52.47.437	7794	Gull	High	3	Sitting	53.4937475	-3.1077328
Rhyl	08/04/2009	2	10:09:07.528	14.52.47.437	7801	Gull	High	1	Flying	53.49401861	-3.1077064
Rhyl	08/04/2009	2	10:09:07.992	14.52.47.437	7808	Gull	High	1	Sitting	53.49428944	-3.1076797
Rhyl	08/04/2009	2	10:09:08.059	14.52.47.437	7809	Gull	Moderate	1	Sitting	53.49442472	-3.1076661
Rhyl	08/04/2009	2	10:09:08.124	14.52.47.437	7810	Gull	Moderate	2	Sitting	53.49442472	-3.1076661
Rhyl	08/04/2009	2	10:09:08.191	14.52.47.437	7811	Gull	Moderate	1	Sitting	53.49442472	-3.1076661
Rhyl	08/04/2009	2	10:09:08.589	14.52.47.437	7817	Gull	Moderate	1	Sitting	53.49469528	-3.1076389
Rhyl	08/04/2009	2	10:09:09.519	14.52.47.437	7831	Gull	High	2	Sitting	53.49537056	-3.1075703
Rhyl	08/04/2009	2	10:09:10.182	14.52.47.437	7841	Gull	Moderate	2	Sitting	53.49577528	-3.1075281
Rhyl	08/04/2009	2	10:09:10.315	14.52.47.437	7843	Greater BB	Moderate	2	Sitting	53.49591	-3.1075139
Rhyl	08/04/2009	2	10:09:10.979	14.52.47.437	7853	Gull	Moderate	1	Flying	53.49631389	-3.1074703
Rhyl	08/04/2009	2	10:09:11.774	14.52.47.437	7865	Gull	Moderate	1	Sitting	53.49685167	-3.1074108
Rhyl	08/04/2009	2	10:09:12.040	14.52.47.437	7869	Gull	Moderate	1	Sitting	53.49712028	-3.1073811
Rhyl	08/04/2009	2	10:14:52.614	14.52.47.437	9574	Herring Gull	Moderate	1	Flying	53.42936444	-3.082315
Rhyl	08/04/2009	2	10:15:07.680	14.52.47.437	9801	Gull	Moderate	1	Sitting	53.44007194	-3.0811594
Rhyl	08/04/2009	2	10:15:07.747	14.52.47.437	9802	Gull	Moderate	1	Sitting	53.44007194	-3.0811594
Rhyl	08/04/2009	2	10:15:07.812	14.52.47.437	9803	Gull	Moderate	1	Sitting	53.44007194	-3.0811594
Rhyl	08/04/2009	2	10:15:08.145	14.52.47.437	9808	Gull	Moderate	1	Sitting	53.44035	-3.0811311
Rhyl	08/04/2009	2	10:15:08.277	14.52.47.437	9810	Gull	Moderate	1	Sitting	53.44048917	-3.0811175
Rhyl	08/04/2009	2	10:15:08.343	14.52.47.437	9811	Gull	High	4	Sitting	53.44048917	-3.0811175
Rhyl	08/04/2009	2	10:15:08.409	14.52.47.437	9812	Gull	Moderate	1	Sitting	53.44048917	-3.0811175
Rhyl	08/04/2009	2	10:18:40.383	15.16.52.437	77	Greater BB	High	2	Flying	53.49235972	-3.0629708
Rhyl	08/04/2009	2	10:18:40.383	15.16.52.437	77	Greater BB	High	1	Flying	53.49235972	-3.0629708
Rhyl	08/04/2009	2	10:18:41.577	15.16.52.437	96	Gull	High	2	Flying	53.491595	-3.0629983
Rhyl	08/04/2009	2	10:18:41.577	15.16.52.437	96	Gull	High	3	Sitting	53.491595	-3.0629983
Rhyl	08/04/2009	2	10:19:59.358	15.16.52.437	1267	Gull	High	1	Sitting	53.44202194	-3.0660736
Rhyl	08/04/2009	2	10:19:59.358	15.16.52.437	1267	Gull	High	1	Flying	53.44202194	-3.0660736
Rhyl	08/04/2009	3	09:41:00.127	14.28.59.031	4984	Gull	High	3	Loafing	53.39920333	-3.2033325
Rhyl	08/04/2009	3	09:41:21.563	14.28.59.031	5314	Auk	Low	1	Sitting	53.41427639	-3.2025325
Rhyl	08/04/2009	3	09:41:31.183	14.28.59.031	5452	Auk	High	1	Sitting	53.42033528	-3.2021786
Rhyl	08/04/2009	3	09:42:18.499	14.28.59.031	6165	Gull	High	1	Shearing	53.4525175	-3.2003522
Rhyl	08/04/2009	3	09:50:47.933	14.28.59.031	9754	Gull	High	3	Taking off	53.41348333	-3.17381
Rhyl	08/04/2009	3	09:50:49.127	14.28.59.031	9772	Gull	High	1	Flying	53.4143525	-3.1737469
Rhyl	08/04/2009	3	09:50:54.039	14.28.59.031	9846	Gull	High	1	Flying	53.41795667	-3.1734758
Rhyl	08/04/2009	3	09:52:06.915	14.28.59.031	10944	Diver	Moderate	1	Flying	53.46931472	-3.1699761
Rhyl	08/04/2009	3	09:59:21.743	14.52.47.562	2490	Gull	High	1	Flying	53.4200775	-3.1425725
Rhyl	08/04/2009	3	09:59:22.141	14.52.47.562	2496	Gull	High	2	Loafing	53.42035861	-3.1425547
Rhyl	08/04/2009	3	09:59:22.340	14.52.47.562	2499	Gull	High	1	Loafing	53.42049917	-3.1425458

Rhyl	08/04/2009	3	09:59:22.672	14.52.47.562	2504	Gull	High	6	Loafing	53.42063944	-3.1425367
Rhyl	08/04/2009	3	10:07:16.945	14.52.47.562	6140	Wader	Low	3	Loafing	53.41962444	-3.1129469
Rhyl	08/04/2009	3	10:07:16.945	14.52.47.562	6142	Gull	Moderate	5	Loafing	53.41962444	-3.1129469
Rhyl	08/04/2009	3	10:07:17.276	14.52.47.562	6147	Wader	Low	5	Loafing	53.4197625	-3.1129408
Rhyl	08/04/2009	3	10:07:17.409	14.52.47.562	6149	Gull	Moderate	5	Loafing	53.42003861	-3.1129292
Rhyl	08/04/2009	3	10:07:18.604	14.52.47.562	6167	Gull	Low	1	Flying	53.42086667	-3.1128886
Rhyl	08/04/2009	3	10:09:09.623	14.52.47.562	7840	Gull	High	3	Loafing	53.49564056	-3.1075422
Rhyl	08/04/2009	3	10:09:10.818	14.52.47.562	7858	Gull	High	5	Loafing	53.49644861	-3.1074553
Rhyl	08/04/2009	3	10:09:11.083	14.52.47.562	7862	Gull	High	3	Loafing	53.49671722	-3.1074258
Rhyl	08/04/2009	3	10:09:11.680	14.52.47.562	7871	Gull	High	1	Flying	53.49712028	-3.1073811
Rhyl	08/04/2009	3	10:12:51.663	14.52.47.562	9371	Gull	Moderate	2	Loafing	53.43203056	-3.0970506
Rhyl	08/04/2009	3	10:12:52.061	14.52.47.562	9377	Gull	Moderate	1	Loafing	53.43177722	-3.0970731
Rhyl	08/04/2009	3	10:12:52.592	14.52.47.562	9385	Gull	Moderate	2	Loafing	53.43152389	-3.097095
Rhyl	08/04/2009	3	10:12:53.322	14.52.47.562	9396	Wader	Low	2	Loafing	53.43101667	-3.0971375
Rhyl	08/04/2009	3	10:12:53.520	14.52.47.562	9399	Gull	High	1	Loafing	53.43089	-3.0971478
Rhyl	08/04/2009	3	10:15:07.501	14.52.47.562	9806	Gull	High	1	Loafing	53.44021111	-3.0811453
Rhyl	08/04/2009	3	10:15:38.889	14.52.47.562	10279	Gull	High	2	Sitting	53.46128083	-3.0795714
Rhyl	08/04/2009	3	10:18:40.648	15.16.52.546	87	Gull	High	1	Loafing	53.49197722	-3.0629819
Rhyl	08/04/2009	3	10:18:41.046	15.16.52.546	93	Oystercatchers	High	1	Flying	53.49172222	-3.0629922
Rhyl	08/04/2009	3	10:18:41.378	15.16.52.546	98	Oystercatchers	High	1	Flying	53.49146778	-3.0630047
Rhyl	08/04/2009	3	10:19:54.705	15.16.52.546	1203	Gull	High	1	Flying	53.44471556	-3.0658878
Rhyl	08/04/2009	3	10:19:55.700	15.16.52.546	1218	Gull	High	1	Loafing	53.44407417	-3.0659308
Rhyl	08/04/2009	3	10:19:55.700	15.16.52.546	1218	Gull	High	1	Loafing	53.44407417	-3.0659308
Rhyl	08/04/2009	4	09:38:15.940	14.28.59.140	4573	Gull	High	2	Flying	53.39120139	-3.2183361
Rhyl	08/04/2009	4	09:38:18.824	14.28.59.140	4617	Gull	Moderate	1	Loafing	53.3893125	-3.2184089
Rhyl	08/04/2009	4	09:38:19.155	14.28.59.140	4622	Gull	Moderate	2	Loafing	53.38906139	-3.2184186
Rhyl	08/04/2009	4	09:40:56.829	14.28.59.140	4938	Gull	High	1	Flying	53.39700833	-3.2034642
Rhyl	08/04/2009	4	09:40:57.094	14.28.59.140	4942	Gull	High	2	Flying	53.39728278	-3.2034469
Rhyl	08/04/2009	4	09:42:01.862	14.28.59.140	5918	Auk	High	3	Sitting	53.44132944	-3.2010503
Rhyl	08/04/2009	4	09:42:07.238	14.28.59.140	5999	Gull	High	1	Flying	53.44503472	-3.200815
Rhyl	08/04/2009	4	09:42:16.131	14.28.59.140	6133	Gull	High	3	Sitting	53.45103194	-3.2004581
Rhyl	08/04/2009	4	09:42:16.662	14.28.59.140	6141	Gull	High	1	Sitting	53.4514375	-3.2004289
Rhyl	08/04/2009	4	09:47:47.404	14.28.59.140	8926	Gull	High	1	Sitting	53.4158425	-3.1876428
Rhyl	08/04/2009	4	09:47:50.457	14.28.59.140	8972	Gull	High	1	Flying	53.41391528	-3.1878647
Rhyl	08/04/2009	4	09:47:52.845	14.28.59.140	9008	Gull	High	3	Sitting	53.41237667	-3.1880381
Rhyl	08/04/2009	4	09:50:46.844	14.28.59.140	9743	Gull	High	1	Sitting	53.41290306	-3.1738528
Rhyl	08/04/2009	4	09:50:47.640	14.28.59.140	9755	Gull	High	1	Sitting	53.41348333	-3.17381
Rhyl	08/04/2009	4	09:55:16.334	14.52.47.687	327	Gull	High	1	Flying	53.48201472	-3.1542381

Rhyl	08/04/2009	4	09:56:51.230	14.52.47.687	1757	Gull	High	2	Flying	53.42423167	-3.1574131
Rhyl	08/04/2009	4	09:56:51.230	14.52.47.687	1757	Gull	High	1	Loafing	53.42423167	-3.1574131
Rhyl	08/04/2009	4	09:56:51.496	14.52.47.687	1761	Gull	High	1	Loafing	53.42398389	-3.1574217
Rhyl	08/04/2009	4	09:56:51.694	14.52.47.687	1764	Gull	High	2	Loafing	53.42386	-3.1574261
Rhyl	08/04/2009	4	09:56:51.960	14.52.47.687	1768	Gull	High	4	Loafing	53.42373611	-3.1574308
Rhyl	08/04/2009	4	09:56:52.358	14.52.47.687	1774	Gull	High	1	Loafing	53.42348806	-3.15744
Rhyl	08/04/2009	4	09:56:52.623	14.52.47.687	1778	Gull	High	2	Loafing	53.42336389	-3.1574447
Rhyl	08/04/2009	4	14:56:52.823	14.52.47.687	1781	Gull	Low	1	Sitting	53.42324	-3.1574494
Rhyl	08/04/2009	4	09:56:53.354	14.52.47.687	1789	Gull	Low	1	Sitting	53.42286778	-3.1574647
Rhyl	08/04/2009	4	09:56:54.880	14.52.47.687	1812	Gull	High	1	Loafing	53.42199861	-3.1575061
Rhyl	08/04/2009	4	09:56:55.278	14.52.47.687	1818	Gull	High	2	Loafing	53.42162611	-3.1575256
Rhyl	08/04/2009	4	09:59:16.494	14.52.47.687	2413	Gull	High	1	Loafing	53.41643167	-3.1427961
Rhyl	08/04/2009	4	09:59:19.878	14.52.47.687	2425	Gull	Low	1	Loafing	53.41699139	-3.1427614
Rhyl	08/04/2009	4	09:59:19.878	14.52.47.687	2464	Oystercatchers	High	1	Flying	53.41881389	-3.14265
Rhyl	08/04/2009	4	09:59:20.144	14.52.47.687	2468	Gull	High	1	Loafing	53.41895444	-3.1426414
Rhyl	08/04/2009	4	09:59:20.542	14.52.47.687	2474	Gull	High	2	Loafing	53.419235	-3.1426242
Rhyl	08/04/2009	4	09:59:21.139	14.52.47.687	2483	Gull	High	1	Loafing	53.41965611	-3.1425986
Rhyl	08/04/2009	4	09:59:21.739	14.52.47.687	2492	Gull	High	2	Loafing	53.4200775	-3.1425725
Rhyl	08/04/2009	4	09:59:22.201	14.52.47.687	2499	Gull	High	1	Flying	53.42049917	-3.1425458
Rhyl	08/04/2009	4	09:59:22.201	14.52.47.687	2499	Gull	High	2	Loafing	53.42049917	-3.1425458
Rhyl	08/04/2009	4	09:59:22.400	14.52.47.687	2502	Gull	High	1	Flying	53.42063944	-3.1425367
Rhyl	08/04/2009	4	09:59:22.599	14.52.47.687	2505	Gull	High	3	Flying	53.42078028	-3.1425275
Rhyl	08/04/2009	4	09:59:22.998	14.52.47.687	2511	Gull	High	4	Flying	53.42106139	-3.1425089
Rhyl	08/04/2009	4	10:05:01.304	14.52.47.687	5782	Gull	High	7	Flying	53.42734806	-3.1278036
Rhyl	08/04/2009	4	10:05:02.034	14.52.47.687	5793	Gull	High	1	Flying	53.4268375	-3.1278317
Rhyl	08/04/2009	4	10:05:02.233	14.52.47.687	5796	Gull	High	2	Loafing	53.42671	-3.1278386
Rhyl	08/04/2009	4	10:05:02.432	14.52.47.687	5799	Gull	High	2	Loafing	53.42658222	-3.1278458
Rhyl	08/04/2009	4	10:05:02.432	14.52.47.687	5799	Gull	High	1	Flying	53.42658222	-3.1278458
Rhyl	08/04/2009	4	10:05:02.631	14.52.47.687	5802	Gull	High	3	Loafing	53.42645444	-3.1278528
Rhyl	08/04/2009	4	10:05:03.029	14.52.47.687	5804	Gull	High	3	Loafing	53.42645444	-3.1278528
Rhyl	08/04/2009	4	10:05:03.029	14.52.47.687	5808	Gull	High	3	Loafing	53.42619889	-3.1278667
Rhyl	08/04/2009	4	10:05:03.362	14.52.47.687	5813	Gull	High	1	Loafing	53.42607111	-3.1278742
Rhyl	08/04/2009	4	10:05:03.760	14.52.47.687	5819	Gull	High	3	Loafing	53.42581556	-3.1278889
Rhyl	08/04/2009	4	10:05:04.157	14.52.47.687	5825	Gull	High	1	Loafing	53.42555972	-3.1279042
Rhyl	08/04/2009	4	10:05:06.414	14.52.47.687	5859	Gull	High	1	Flying	53.42402528	-3.1279989
Rhyl	08/04/2009	4	10:05:07.144	14.52.47.687	5870	Gull	High	2	Loafing	53.42364139	-3.1280219
Rhyl	08/04/2009	4	10:05:07.608	14.52.47.687	5877	Gull	High	1	Flying	53.4232575	-3.1280456
Rhyl	08/04/2009	4	10:05:09.135	14.52.47.687	5900	Gull	High	1	Flying	53.42236111	-3.1280989

Rhyl	08/04/2009	4	10:07:16.945	14.52.47.687	6144	Gull	High	1	Flying	53.4197625	-3.1129408
Rhyl	08/04/2009	4	10:07:18.073	14.52.47.687	6161	Gull	High	7	Loafing	53.4204525	-3.1129108
Rhyl	08/04/2009	4		14.52.47.687	6166	Gull	High	3	Loafing	53.42072861	-3.1128967
Rhyl	08/04/2009	4		14.52.47.687	6169	Gull	High	2	Loafing	53.42086667	-3.1128886
Rhyl	08/04/2009	4	10:07:18.737	14.52.47.687	6171	Gull	High	1	Loafing	53.421005	-3.11288
Rhyl	08/04/2009	4		14.52.47.687	6175	Gull	High	3	Loafing	53.42114361	-3.1128708
Rhyl	08/04/2009	4		14.52.47.687	6186	Gull	High	1	Loafing	53.42169806	-3.1128286
Rhyl	08/04/2009	4	10:07:20.396	14.52.47.687	6196	Gull	High	5	Loafing	53.42211472	-3.1127942
Rhyl	08/04/2009	4	10:07:20.728	14.52.47.687	6201	Gull	High	4	Loafing	53.4223925	-3.1127714
Rhyl	08/04/2009	4	10:07:21.657	14.52.47.687	6215	Gull	High	1	Flying	53.42294917	-3.1127256
Rhyl	08/04/2009	4	10:09:08.232	14.52.47.687	7821	Gull	High	2	Loafing	53.49483056	-3.1076253
Rhyl	08/04/2009	4	10:09:09.560	14.52.47.687	7841	Gull	High	3	Loafing	53.49577528	-3.1075281
Rhyl	08/04/2009	4	10:09:10.223	14.52.47.687	7851	Gull	Low	1	Loafing	53.49617944	-3.1074847
Rhyl	08/04/2009	4	10:12:36.871	14.52.47.687	9151	Gull	High	3	Flying	53.44131639	-3.0961961
Rhyl	08/04/2009	4	10:12:51.006	14.52.47.687	9364	Gull	High	2	Loafing	53.43241056	-3.0970169
Rhyl	08/04/2009	4	10:14:53.374	14.52.47.687	9597	Gull	High	2	Loafing	53.43035861	-3.0822225
Rhyl	08/04/2009	4	10:15:08.770	14.52.47.687	9829	Gull	High	1	Loafing	53.44118361	-3.0810519
Rhyl	08/04/2009	4	10:18:40.528	15.16.52.671	87	Oystercatchers	High	1	Flying	53.49197722	-3.0629819
Rhyl	08/04/2009	4	10:18:40.528	15.16.52.671	87	Oystercatchers	High	2	Loafing	53.49197722	-3.0629819
Rhyl	08/04/2009	4	10:18:42.652	15.16.52.671	119	Gull	High	1	Loafing	53.49070417	-3.0630475
Rhyl	08/04/2009	4	10:18:50.748	15.16.52.671	241	Gull	High	1	Flying	53.48546972	-3.0633758
Rhyl	08/04/2009	4	10:19:50.937	15.16.52.671	1148	Gull	High	2	Flying	53.44702167	-3.0657239
Rhyl	08/04/2009	4	10:19:56.179	15.16.52.671	1227	Gull	High	1	Flying	53.44368944	-3.0659575
Rhyl	08/04/2009	4	10:21:52.303	15.16.52.671	1388	Gull	High	7	Loafing	53.43837472	-3.0504247
Rhyl	08/04/2009	4	10:21:58.276	15.16.52.671	1478	Gull	High	2	Flying	53.44220139	-3.0499497
Rhyl	05/04/2009	2	10:00:58.705	14.44.09.453	2760	Auk	High	1	Sitting	53.31970722	-3.7007819
Rhyl	05/04/2009	2	10:01:05.807	14.44.09.453	2867	Auk	High	2	Sitting	53.32459278	-3.7006539
Rhyl	05/04/2009	2	10:01:20.473	14.44.09.453	3088	Auk	High	1	Sitting	53.33505583	-3.7005083
Rhyl	05/04/2009	2	10:01:45.491	14.44.09.453	3465	Small Gull	High	1	Flying	53.352215	-3.7005025
Rhyl	05/04/2009	2	10:01:50.203	14.44.09.453	3536	Auk	High	2	Sitting	53.3554825	-3.7004536
Rhyl	05/04/2009	2	10:01:55.247	14.44.09.453	3612	Scoter	Moderate	2	Sitting	53.35887306	-3.7004325
Rhyl	05/04/2009	2	10:02:02.281	14.44.09.453	3718	Scoter	High	4	Sitting	53.36364417	-3.7004294
Rhyl	05/04/2009	2	10:02:02.348	14.44.09.453	3719	Scoter	High	2	Sitting	53.36364417	-3.7004294
Rhyl	05/04/2009	2	10:02:02.480	14.44.09.453	3721	Scoter	High	2	Sitting	53.36378167	-3.7004278
Rhyl	05/04/2009	2	10:02:02.945	14.44.09.453	3728	Scoter	High	1	Sitting	53.36405639	-3.7004242
Rhyl	05/04/2009	2	10:02:03.077	14.44.09.453	3730	Scoter	High	5	Sitting	53.36419389	-3.7004219
Rhyl	05/04/2009	2	10:02:08.387	14.44.09.453	3810	Small Gull	High	1	Flying	53.36777583	-3.7003325
Rhyl	05/04/2009	2	10:02:10.246	14.44.09.453	3838	Gull	Moderate	1	Sitting	53.36900972	-3.7002867

Rhyl	05/04/2009	2	10:02:14.558	14.44.09.453	3903	Auk	Moderate	1	Sitting	53.37201861	-3.7001983
Rhyl	05/04/2009	2	10:02:15.555	14.44.09.453	3918	Gull	Low	1	Sitting	53.37269861	-3.7001806
Rhyl	05/04/2009	2	10:02:15.620	14.44.09.453	3919	Auk	Moderate	3	Sitting	53.37269861	-3.7001806
Rhyl	05/04/2009	2	10:02:15.687	14.44.09.453	3920	Gull	Low	1	Sitting	53.37269861	-3.7001806
Rhyl	05/04/2009	2	10:11:01.537	14.44.09.453	8108	Scoter	High	1	Sitting	53.33277167	-3.6707722
Rhyl	05/04/2009	2	10:11:01.670	14.44.09.453	8110	Scoter	High	5	Sitting	53.33277167	-3.6707722
Rhyl	05/04/2009	2	10:11:01.737	14.44.09.453	8111	Scoter	High	1	Sitting	53.33290889	-3.6707675
Rhyl	05/04/2009	2	10:11:01.871	14.44.09.453	8113	Scoter	High	1	Sitting	53.33290889	-3.6707675
Rhyl	05/04/2009	2	10:11:03.197	14.44.09.453	8133	Scoter	High	1	Sitting	53.33386889	-3.6707364
Rhyl	05/04/2009	2	10:11:03.263	14.44.09.453	8134	Scoter	High	2	Sitting	53.33386889	-3.6707364
Rhyl	05/04/2009	2	10:11:19.058	14.44.09.453	8372	Scoter	High	1	Sitting	53.34464389	-3.6706447
Rhyl	05/04/2009	2	10:11:19.123	14.44.09.453	8373	Scoter	High	2	Sitting	53.34478111	-3.6706431
Rhyl	05/04/2009	2	10:11:19.456	14.44.09.453	8378	Scoter	High	5	Sitting	53.34491833	-3.6706411
Rhyl	05/04/2009	2	10:11:19.588	14.44.09.453	8380	Scoter	High	4	Sitting	53.34505583	-3.6706389
Rhyl	05/04/2009	2	10:11:19.655	14.44.09.453	8381	Scoter	High	1	Sitting	53.34505583	-3.6706389
Rhyl	05/04/2009	2	10:11:19.720	14.44.09.453	8382	Scoter	High	2	Sitting	53.34519306	-3.6706367
Rhyl	05/04/2009	2	10:11:19.920	14.44.09.453	8385	Scoter	High	3	Sitting	53.34519306	-3.6706367
Rhyl	05/04/2009	2	10:11:19.986	14.44.09.453	8386	Scoter	High	2	Sitting	53.34533028	-3.6706344
Rhyl	05/04/2009	2	10:11:20.583	14.44.09.453	8395	Scoter	High	5	Sitting	53.34574306	-3.6706256
Rhyl	05/04/2009	2	10:11:20.649	14.44.09.453	8396	Scoter	High	2	Sitting	53.34574306	-3.6706256
Rhyl	05/04/2009	2	10:11:21.181	14.44.09.453	8404	Scoter	High	2	Sitting	53.34615583	-3.6706153
Rhyl	05/04/2009	2	10:11:21.248	14.44.09.453	8405	Scoter	High	1	Sitting	53.34615583	-3.6706153
Rhyl	05/04/2009	2	10:11:21.313	14.44.09.453	8406	Scoter	High	5	Sitting	53.34615583	-3.6706153
Rhyl	05/04/2009	2	10:11:21.445	14.44.09.453	8408	Scoter	High	5	Sitting	53.34629361	-3.6706119
Rhyl	05/04/2009	2	10:11:21.513	14.44.09.453	8409	Scoter	High	5	Sitting	53.34643139	-3.6706083
Rhyl	05/04/2009	2	10:11:21.579	14.44.09.453	8410	Scoter	High	2	Sitting	53.34643139	-3.6706083
Rhyl	05/04/2009	2	10:11:21.778	14.44.09.453	8413	Scoter	High	1	Sitting	53.34656917	-3.670605
Rhyl	05/04/2009	2	10:11:21.844	14.44.09.453	8414	Scoter	High	1	Sitting	53.34656917	-3.670605
Rhyl	05/04/2009	2	10:11:22.043	14.44.09.453	8417	Scoter	High	2	Sitting	53.34670694	-3.6706019
Rhyl	05/04/2009	2	10:11:22.442	14.44.09.453	8423	Scoter	High	1	Sitting	53.3469825	-3.6705956
Rhyl	05/04/2009	2	10:11:22.508	14.44.09.453	8424	Scoter	High	1	Sitting	53.3469825	-3.6705956
Rhyl	05/04/2009	2	10:11:22.773	14.44.09.453	8428	Scoter	High	2	Sitting	53.34725833	-3.6705894
Rhyl	05/04/2009	2	10:11:23.371	14.44.09.453	8437	Scoter	High	3	Sitting	53.34767222	-3.6705819
Rhyl	05/04/2009	2	10:11:24.033	14.44.09.453	8447	Scoter	High	1	Sitting	53.34808583	-3.6705747
Rhyl	05/04/2009	2	10:11:24.100	14.44.09.453	8448	Scoter	High	1	Sitting	53.34808583	-3.6705747
Rhyl	05/04/2009	2	10:11:24.233	14.44.09.453	8450	Scoter	High	1	Sitting	53.34822389	-3.6705725
Rhyl	05/04/2009	2	10:11:25.693	14.44.09.453	8472	Scoter	High	4	Sitting	53.34918917	-3.6705525
Rhyl	05/04/2009	2	10:11:26.356	14.44.09.453	8482	Scoter	Moderate	1	Sitting	53.34974083	-3.6705386

Rhyl	05/04/2009	2	10:11:29.134	14.44.09.453	8524	Scoter	High	6	Sitting	53.35167111	-3.6704969
Rhyl	05/04/2009	2	10:11:29.210	14.44.09.453	8525	Scoter	High	2	Sitting	53.35167111	-3.6704969
Rhyl	05/04/2009	2	10:11:29.276	14.44.09.453	8526	Scoter	High	1	Sitting	53.35167111	-3.6704969
Rhyl	05/04/2009	2	10:11:46.596	14.44.09.453	8787	Auk	Moderate	1	Sitting	53.36360972	-3.6700025
Rhyl	05/04/2009	2	10:11:52.369	14.44.09.453	8874	Auk	High	1	Sitting	53.36741222	-3.6698836
Rhyl	05/04/2009	2	10:11:56.815	14.44.09.453	8941	Small Gull	High	1	Flying	53.37051222	-3.6698589
Rhyl	05/04/2009	2	10:12:11.747	14.44.09.453	9166	Auk	Low	1	Sitting	53.38053917	-3.6696842
Rhyl	05/04/2009	2	10:21:28.837	15.18.43.421	1249	Scoter	Moderate	1	Sitting	53.34204361	-3.63972
Rhyl	05/04/2009	2	10:21:29.235	15.18.43.421	1255	Scoter	High	1	Sitting	53.34231	-3.6397167
Rhyl	05/04/2009	2	10:21:29.301	15.18.43.421	1256	Scoter	High	2	Sitting	53.34244333	-3.6397147
Rhyl	05/04/2009	2	10:21:29.434	15.18.43.421	1258	Scoter	High	2	Sitting	53.34244333	-3.6397147
Rhyl	05/04/2009	2	10:21:29.500	15.18.43.421	1259	Scoter	High	1	Sitting	53.34257667	-3.6397131
Rhyl	05/04/2009	2	10:21:29.633	15.18.43.421	1261	Scoter	High	1	Sitting	53.34257667	-3.6397131
Rhyl	05/04/2009	2	10:21:29.699	15.18.43.421	1262	Scoter	High	3	Sitting	53.34271028	-3.6397114
Rhyl	05/04/2009	2	10:21:29.765	15.18.43.421	1263	Scoter	High	3	Sitting	53.34271028	-3.6397114
Rhyl	05/04/2009	2	10:21:29.965	15.18.43.421	1266	Scoter	High	2	Sitting	53.34284361	-3.6397094
Rhyl	05/04/2009	2	10:21:30.031	15.18.43.421	1267	Scoter	High	2	Sitting	53.34284361	-3.6397094
Rhyl	05/04/2009	2	10:21:30.164	15.18.43.421	1269	Scoter	High	2	Sitting	53.34297694	-3.6397072
Rhyl	05/04/2009	2	10:21:30.297	15.18.43.421	1271	Scoter	High	2	Sitting	53.34311056	-3.639705
Rhyl	05/04/2009	2	10:21:30.429	15.18.43.421	1273	Scoter	High	4	Sitting	53.34311056	-3.639705
Rhyl	05/04/2009	2	10:21:30.495	15.18.43.421	1274	Scoter	High	2	Sitting	53.34324389	-3.6397025
Rhyl	05/04/2009	2	10:21:30.628	15.18.43.421	1276	Scoter	High	2	Sitting	53.34324389	-3.6397025
Rhyl	05/04/2009	2	10:21:30.829	15.18.43.421	1279	Scoter	High	1	Sitting	53.3433775	-3.6397
Rhyl	05/04/2009	2	10:21:31.027	15.18.43.421	1282	Scoter	High	2	Sitting	53.34351111	-3.6396975
Rhyl	05/04/2009	2	10:21:31.093	15.18.43.421	1283	Scoter	High	2	Sitting	53.34351111	-3.6396975
Rhyl	05/04/2009	2	10:21:31.159	15.18.43.421	1284	Scoter	High	3	Sitting	53.34351111	-3.6396975
Rhyl	05/04/2009	2	10:21:31.359	15.18.43.421	1287	Scoter	High	2	Sitting	53.34377833	-3.6396925
Rhyl	05/04/2009	2	10:21:13.424	15.18.43.421	1288	Scoter	High	2	Sitting	53.34377833	-3.6396925
Rhyl	05/04/2009	2	10:21:32.354	15.18.43.421	1302	Scoter	High	1	Sitting	53.34444694	-3.6396789
Rhyl	05/04/2009	2	10:21:32.420	15.18.43.421	1303	Scoter	High	4	Sitting	53.34444694	-3.6396789
Rhyl	05/04/2009	2	10:21:32.620	15.18.43.421	1306	Scoter	High	1	Sitting	53.34458083	-3.6396761
Rhyl	05/04/2009	2	10:21:32.752	15.18.43.421	1308	Scoter	High	1	Sitting	53.34471444	-3.6396731
Rhyl	05/04/2009	2	10:21:32.885	15.18.43.421	1310	Scoter	High	2	Sitting	53.34484833	-3.6396703
Rhyl	05/04/2009	2	10:21:33.216	15.18.43.421	1315	Scoter	High	3	Sitting	53.34498222	-3.6396672
Rhyl	05/04/2009	2	10:21:34.278	15.18.43.421	1331	Scoter	High	1	Sitting	53.34565222	-3.6396544
Rhyl	05/04/2009	2	10:21:35.207	15.18.43.421	1345	Scoter	High	2	Sitting	53.34632278	-3.6396439
Rhyl	05/04/2009	2	10:21:35.406	15.18.43.421	1348	Scoter	High	1	Sitting	53.34645694	-3.6396417
Rhyl	05/04/2009	2	10:21:35.873	15.18.43.421	1355	Scoter	High	4	Sitting	53.34672556	-3.6396367

Rhyl	05/04/2009	2	10:21:35.938	15.18.43.421	1356	Scoter	High	1	Sitting	53.34686	-3.6396342
Rhyl	05/04/2009	2	10:21:36.569	15.18.43.421	1364	Scoter	High	1	Flying	53.34712889	-3.6396294
Rhyl	05/04/2009	2	10:22:26.370	15.18.43.421	2116	Auk	Moderate	1	Sitting	53.38018111	-3.6391117
Rhyl	05/04/2009	2	10:22:55.370	15.18.43.421	2553	Small Gull	Moderate	1	Sitting	53.399435	-3.6386014
Rhyl	05/04/2009	2	10:30:52.961	15.18.43.421	5830	Gull	High	1	Flying	53.29033556	-3.6115833
Rhyl	05/04/2009	2	10:31:01.654	15.18.43.421	5961	Herring Gull	High	1	Flying	53.29631806	-3.6114822
Rhyl	05/04/2009	2	10:31:19.903	15.18.43.421	6236	Scoter	High	1	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	2	10:31:19.969	15.18.43.421	6237	Scoter	High	2	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	2	10:31:20.102	15.18.43.421	6239	Scoter	High	3	Sitting	53.30858806	-3.611
Rhyl	05/04/2009	2	10:31:36.890	15.18.43.421	6492	Scoter	High	2	Sitting	53.31992111	-3.6103644
Rhyl	05/04/2009	2	10:31:36.957	15.18.43.421	6493	Scoter	High	3	Sitting	53.31992111	-3.6103644
Rhyl	05/04/2009	2	10:31:37.023	15.18.43.421	6494	Scoter	High	4	Sitting	53.31992111	-3.6103644
Rhyl	05/04/2009	2	10:31:37.090	15.18.43.421	6495	Scoter	High	10	Swimming	53.320055	-3.6103572
Rhyl	05/04/2009	2	10:31:37.156	15.18.43.421	6496	Scoter	High	5	Swimming	53.320055	-3.6103572
Rhyl	05/04/2009	2	10:31:37.223	15.18.43.421	6497	Scoter	High	5	Swimming	53.320055	-3.6103572
Rhyl	05/04/2009	2	10:31:37.289	15.18.43.421	6498	Scoter	High	5	Swimming	53.32018917	-3.61035
Rhyl	05/04/2009	2	10:31:37.356	15.18.43.421	6499	Scoter	High	3	Sitting	53.32018917	-3.61035
Rhyl	05/04/2009	2	10:31:37.488	15.18.43.421	6501	Scoter	High	4	Sitting	53.32018917	-3.61035
Rhyl	05/04/2009	2	10:31:37.820	15.18.43.421	6506	Scoter	High	2	Sitting	53.32045694	-3.6103369
Rhyl	05/04/2009	2	10:31:37.952	15.18.43.421	6508	Large Gull	Low	1	Sitting	53.32059056	-3.6103308
Rhyl	05/04/2009	2	10:31:38.417	15.18.43.421	6515	Scoter	High	2	Sitting	53.32085806	-3.6103192
Rhyl	05/04/2009	2	10:31:38.483	15.18.43.421	6516	Scoter	High	1	Sitting	53.32099194	-3.6103139
Rhyl	05/04/2009	2	10:31:38.550	15.18.43.421	6517	Scoter	High	3	Swimming	53.32099194	-3.6103139
Rhyl	05/04/2009	2	10:31:38.616	15.18.43.421	6518	Scoter	Low	2	Sitting	53.32099194	-3.6103139
Rhyl	05/04/2009	2	10:31:38.683	15.18.43.421	6519	Scoter	High	4	Swimming	53.32112556	-3.6103083
Rhyl	05/04/2009	2	10:31:38.948	15.18.43.421	6523	Scoter	High	2	Sitting	53.32125917	-3.6103031
Rhyl	05/04/2009	2	10:31:39.479	15.18.43.421	6531	Large Gull	Moderate	1	Sitting	53.32165972	-3.6102878
Rhyl	05/04/2009	2	10:31:39.678	15.18.43.421	6534	Scoter	High	1	Sitting	53.32179333	-3.6102825
Rhyl	05/04/2009	2	10:31:40.010	15.18.43.421	6539	Scoter	High	1	Sitting	53.32192667	-3.6102775
Rhyl	05/04/2009	2	10:31:41.338	15.18.43.421	6559	Scoter	High	2	Sitting	53.32286139	-3.6102489
Rhyl	05/04/2009	2	10:31:41.403	15.18.43.421	6560	Scoter	High	9	Sitting	53.32286139	-3.6102489
Rhyl	05/04/2009	2	10:31:41.602	15.18.43.421	6563	Scoter	High	3	Sitting	53.322995	-3.6102458
Rhyl	05/04/2009	2	10:31:41.669	15.18.43.421	6564	Scoter	High	1	Sitting	53.32312861	-3.6102428
Rhyl	05/04/2009	2	10:31:42.000	15.18.43.421	6569	Scoter	Moderate	1	Sitting	53.32326222	-3.61024
Rhyl	05/04/2009	2	10:31:42.731	15.18.43.421	6580	Scoter	High	2	Sitting	53.32379667	-3.6102283
Rhyl	05/04/2009	2	10:31:47.642	15.18.43.421	6654	Large Gull	Moderate	1	Sitting	53.32700778	-3.6101422
Rhyl	05/04/2009	2	10:31:47.708	15.18.43.421	6655	Large Gull	Moderate	1	Sitting	53.32714167	-3.6101381
Rhyl	05/04/2009	2	10:31:50.163	15.18.43.421	6692	Auk	Low	2	Sitting	53.32861472	-3.6100833

Rhyl	05/04/2009	2	10:32:04.098	15.18.43.421	6902	Auk	Moderate	1	Flying	53.33831306	-3.6096994
Rhyl	05/04/2009	2	10:32:09.275	15.18.43.421	6980	Scoter	High	4	Sitting	53.34178722	-3.6095636
Rhyl	05/04/2009	2	10:32:09.341	15.18.43.421	6981	Scoter	High	1	Sitting	53.34192639	-3.6095594
Rhyl	05/04/2009	2	10:32:09.939	15.18.43.421	6990	Scoter	High	2	Sitting	53.34234333	-3.6095472
Rhyl	05/04/2009	2	10:32:11.666	15.18.43.421	7016	Scoter	High	3	Swimming	53.343455	-3.6095147
Rhyl	05/04/2009	2	10:32:11.730	15.18.43.421	7017	Scoter	High	2	Sitting	53.343455	-3.6095147
Rhyl	05/04/2009	2	10:32:11.862	15.18.43.421	7019	Scoter	High	2	Sitting	53.34359361	-3.6095108
Rhyl	05/04/2009	2	10:32:11.995	15.18.43.421	7021	Scoter	High	2	Sitting	53.3437325	-3.6095069
Rhyl	05/04/2009	2	10:32:12.063	15.18.43.421	7022	Scoter	High	2	Sitting	53.3437325	-3.6095069
Rhyl	05/04/2009	2	10:32:13.124	15.18.43.421	7038	Scoter	High	2	Sitting	53.34456528	-3.6094856
Rhyl	05/04/2009	2	10:32:13.257	15.18.43.421	7040	Scoter	High	1	Sitting	53.34456528	-3.6094856
Rhyl	05/04/2009	2	10:32:13.457	15.18.43.421	7043	Scoter	High	2	Sitting	53.34470389	-3.6094822
Rhyl	05/04/2009	2	10:32:18.830	15.18.43.421	7124	Scoter	High	4	Sitting	53.34844278	-3.6094047
Rhyl	05/04/2009	2	10:32:39.116	15.18.43.421	7279	Gull	High	1	Flying	53.35558139	-3.6092033
Rhyl	05/04/2009	2	10:42:18.856	15.18.43.421	12429	Auk	Low	1	Sitting	53.32349167	-3.5795497
Rhyl	05/04/2009	2	10:42:30.933	15.18.43.421	12611	Greater BB	Moderate	1	Sitting	53.33161111	-3.5794131
Rhyl	05/04/2009	2	10:43:08.360	15.18.43.421	13175	Scoter	High	2	Sitting	53.35703639	-3.5786572
Rhyl	05/04/2009	2	10:43:24.352	15.18.43.421	13416	Gull	Low	3	Sitting	53.36774583	-3.578415
Rhyl	05/04/2009	2	10:44:31.974	15.18.43.421	14435	Small Gull	Low	1	Sitting	53.41292083	-3.5776642
Rhyl	05/04/2009	2	10:53:58.816	15.44.51.609	4844	Small Gull	Low	1		53.38167111	-3.5477478
Rhyl	05/04/2009	2	10:54:19.056	15.44.51.609	5149	Diver	Low	1	Sitting	53.39525806	-3.5477886
Rhyl	05/04/2009	2	11:03:27.252	15.44.51.609	9410	Herring Gull	High	1	Flying	53.32913194	-3.5195639
Rhyl	05/04/2009	2	11:03:32.893	15.44.51.609	9495	Herring Gull	High	1	Flying	53.33292806	-3.5194656
Rhyl	05/04/2009	2	11:03:50.411	15.44.51.609	9759	Gull	Moderate	1		53.34492444	-3.5189106
Rhyl	05/04/2009	2	11:03:53.264	15.44.51.609	9802	Gull	Moderate	3	Sitting	53.34683861	-3.5188183
Rhyl	05/04/2009	2	11:03:55.321	15.44.51.609	9833	Gull	Moderate	1	Sitting	53.34820111	-3.5187464
Rhyl	05/04/2009	2	11:03:55.454	15.44.51.609	9835	Gull		1	Sitting	53.34833722	-3.51874
Rhyl	05/04/2009	2	11:05:05.995	15.44.51.609	10898	Auk	Low	1	Sitting	53.39635833	-3.5171219
Rhyl	05/04/2009	2	11:13:42.536	16.12.05.953	345	Gull	Moderate	1	Flying	53.33175444	-3.4891072
Rhyl	05/04/2009	2	11:13:55.015	16.12.05.953	533	Small Gull	Moderate	1	Flying	53.34010667	-3.488555
Rhyl	05/04/2009	2	11:13:55.144	16.12.05.953	535	Gull	Moderate	2	Sitting	53.34010667	-3.488555
Rhyl	05/04/2009	2	11:13:55.343	16.12.05.953	538	Gull	Moderate	2	Sitting	53.34024167	-3.4885483
Rhyl	05/04/2009	2	11:13:57.401	16.12.05.953	569	Gull	Moderate	1	Sitting	53.34172694	-3.4884864
Rhyl	05/04/2009	2	11:13:57.467	16.12.05.953	570	Gull	Moderate	1	Sitting	53.34172694	-3.4884864
Rhyl	05/04/2009	2	11:13:57.600	16.12.05.953	572	Gull	Moderate	2	Sitting	53.34186194	-3.4884808
Rhyl	05/04/2009	2	11:13:57.666	16.12.05.953	573	Gull	Moderate	2	Sitting	53.34186194	-3.4884808
Rhyl	05/04/2009	2	11:13:57.799	16.12.05.953	575	Gull	Moderate	2	Sitting	53.34199694	-3.488475
Rhyl	05/04/2009	2	11:13:57.865	16.12.05.953	576	Gull	Moderate	1	Sitting	53.34199694	-3.488475

Rhyl	05/04/2009	2	11:13:57.932	16.12.05.953	577	Gull	Moderate	3	Sitting	53.34213167	-3.4884692
Rhyl	05/04/2009	2	11:13:58.064	16.12.05.953	579	Gull	Moderate	2	Sitting	53.34213167	-3.4884692
Rhyl	05/04/2009	2	11:13:58.130	16.12.05.953	580	Gull	Moderate	2	Sitting	53.34213167	-3.4884692
Rhyl	05/04/2009	2	11:13:58.661	16.12.05.953	588	Gull	Moderate	2	Sitting	53.34253639	-3.4884519
Rhyl	05/04/2009	2	11:13:58.728	16.12.05.953	589	Gull	Moderate	2	Sitting	53.34253639	-3.4884519
Rhyl	05/04/2009	2	11:13:58.797	16.12.05.953	590	Gull	Moderate	2	Sitting	53.34267139	-3.4884461
Rhyl	05/04/2009	2	11:13:58.927	16.12.05.953	592	Gull	Moderate	1	Sitting	53.34267139	-3.4884461
Rhyl	05/04/2009	2	11:14:02.909	16.12.05.953	652	Small Gull	Moderate	1	Flying	53.34536222	-3.4883664
Rhyl	05/04/2009	2	11:14:03.173	16.12.05.953	656	Gull	Moderate	2	Sitting	53.34549639	-3.4883642
Rhyl	05/04/2009	2	11:14:37.083	16.12.05.953	1167	Scoter	High	4	Sitting	53.36808694	-3.4875233
Rhyl	05/04/2009	2	11:14:37.216	16.12.05.953	1169	Scoter	High	2	Sitting	53.36808694	-3.4875233
Rhyl	05/04/2009	2	11:14:37.349	16.12.05.953	1171	Scoter	High	2	Sitting	53.36821944	-3.4875186
Rhyl	05/04/2009	2	11:14:37.549	16.12.05.953	1174	Scoter	High	1	Sitting	53.36835194	-3.4875139
Rhyl	05/04/2009	2	11:14:37.681	16.12.05.953	1176	Scoter	High	4	Sitting	53.36848444	-3.4875097
Rhyl	05/04/2009	2	11:14:37.879	16.12.05.953	1179	Scoter	High	6	Sitting	53.36861694	-3.4875056
Rhyl	05/04/2009	2	11:14:38.012	16.12.05.953	1181	Scoter	High	8	Sitting	53.36861694	-3.4875056
Rhyl	05/04/2009	2	11:14:38.080	16.12.05.953	1182	Scoter	High	7	Sitting	53.36874972	-3.4875019
Rhyl	05/04/2009	2	11:14:38.147	16.12.05.953	1183	Scoter	High	2	Sitting	53.36874972	-3.4875019
Rhyl	05/04/2009	2	11:14:38.214	16.12.05.953	1184	Scoter	High	2	Sitting	53.36874972	-3.4875019
Rhyl	05/04/2009	2	11:14:38.280	16.12.05.953	1185	Scoter	High	2	Sitting	53.36888194	-3.4874986
Rhyl	05/04/2009	2	11:14:38.676	16.12.05.953	1191	Scoter	High	6	Sitting	53.36914667	-3.4874919
Rhyl	05/04/2009	2	11:14:38.743	16.12.05.953	1192	Scoter	High	3	Sitting	53.36914667	-3.4874919
Rhyl	05/04/2009	2	11:14:38.875	16.12.05.953	1194	Scoter	High	15	Sitting	53.36927917	-3.4874889
Rhyl	05/04/2009	2	11:14:39.008	16.12.05.953	1196	Scoter	High	12	Swimming	53.36927917	-3.4874889
Rhyl	05/04/2009	2	11:14:39.074	16.12.05.953	1197	Scoter	High	11	Swimming	53.36941167	-3.4874861
Rhyl	05/04/2009	2	11:14:39.207	16.12.05.953	1199	Scoter	High	14	Swimming	53.36941167	-3.4874861
Rhyl	05/04/2009	2	11:14:39.274	16.12.05.953	1200	Scoter	High	11	Swimming	53.36954417	-3.4874831
Rhyl	05/04/2009	2	11:14:39.340	16.12.05.953	1201	Gull	Moderate	1	Sitting	53.36954417	-3.4874831
Rhyl	05/04/2009	2	11:14:39.340	16.12.05.953	1201	Scoter	High	12	Swimming	53.36954417	-3.4874831
Rhyl	05/04/2009	2	11:14:39.406	16.12.05.953	1202	Scoter	High	10	Swimming	53.36954417	-3.4874831
Rhyl	05/04/2009	2	11:14:39.472	16.12.05.953	1203	Scoter	High	9	Swimming	53.36967639	-3.48748
Rhyl	05/04/2009	2	11:14:39.539	16.12.05.953	1204	Scoter	High	13	Swimming	53.36967639	-3.48748
Rhyl	05/04/2009	2	11:14:39.605	16.12.05.953	1205	Scoter	High	21	Swimming	53.36967639	-3.48748
Rhyl	05/04/2009	2	11:14:39.672	16.12.05.953	1206	Scoter	High	14	Swimming	53.36980917	-3.4874772
Rhyl	05/04/2009	2	11:14:39.739	16.12.05.953	1207	Scoter	High	9	Swimming	53.36980917	-3.4874772
Rhyl	05/04/2009	2	11:14:39.805	16.12.05.953	1208	Scoter	High	17	Swimming	53.36980917	-3.4874772
Rhyl	05/04/2009	2	11:14:39.870	16.12.05.953	1209	Scoter	High	5	Swimming	53.36994167	-3.4874744
Rhyl	05/04/2009	2	11:14:39.937	16.12.05.953	1210	Scoter	High	15	Swimming	53.36994167	-3.4874744

Rhyl	05/04/2009	2	11:14:40.003	16.12.05.953	1211	Scoter	High	11	Swimming	53.36994167	-3.4874744
Rhyl	05/04/2009	2	11:14:40.070	16.12.05.953	1212	Scoter	High	13	Swimming	53.37007444	-3.4874714
Rhyl	05/04/2009	2	11:14:40.136	16.12.05.953	1213	Scoter	High	3	Swimming	53.37007444	-3.4874714
Rhyl	05/04/2009	2	11:14:40.206	16.12.05.953	1214	Scoter	High	4	Swimming	53.37007444	-3.4874714
Rhyl	05/04/2009	2	11:14:40.272	16.12.05.953	1215	Scoter	High	6	Swimming	53.37020694	-3.4874686
Rhyl	05/04/2009	2	11:14:40.272	16.12.05.953	1215	Gull	Moderate	1	Sitting	53.37020694	-3.4874686
Rhyl	05/04/2009	2	11:14:40.336	16.12.05.953	1216	Scoter	High	3	Swimming	53.37020694	-3.4874686
Rhyl	05/04/2009	2	11:14:40.401	16.12.05.953	1217	Scoter	High	1	Sitting	53.37020694	-3.4874686
Rhyl	05/04/2009	2	11:14:40.468	16.12.05.953	1218	Scoter	High	6	Sitting	53.37033944	-3.4874658
Rhyl	05/04/2009	2	11:14:40.534	16.12.05.953	1219	Scoter	High	6	Sitting	53.37033944	-3.4874658
Rhyl	05/04/2009	2	11:14:40.601	16.12.05.953	1220	Scoter	High	2	Sitting	53.37033944	-3.4874658
Rhyl	05/04/2009	2	11:14:40.667	16.12.05.953	1221	Scoter	High	5	Sitting	53.37047167	-3.4874631
Rhyl	05/04/2009	2	11:14:40.800	16.12.05.953	1223	Scoter	High	1	Sitting	53.37047167	-3.4874631
Rhyl	05/04/2009	2	11:14:40.999	16.12.05.953	1226	Scoter	High	1	Sitting	53.37060361	-3.4874597
Rhyl	05/04/2009	2	11:14:41.131	16.12.05.953	1228	Scoter	High	1	Sitting	53.37073556	-3.4874564
Rhyl	05/04/2009	2	11:14:41.264	16.12.05.953	1230	Scoter	High	4	Sitting	53.37086806	-3.4874533
Rhyl	05/04/2009	2	11:14:41.529	16.12.05.953	1234	Scoter	High	4	Sitting	53.37100056	-3.4874503
Rhyl	05/04/2009	2	11:14:41.861	16.12.05.953	1239	Scoter	High	1	Sitting	53.37126556	-3.4874436
Rhyl	05/04/2009	2	11:14:41.994	16.12.05.953	1241	Scoter	High	2	Sitting	53.37126556	-3.4874436
Rhyl	05/04/2009	2	11:14:42.127	16.12.05.953	1243	Scoter	High	1	Sitting	53.37126556	-3.4874436
Rhyl	05/04/2009	2	11:14:42.259	16.12.05.953	1245	Scoter	High	1	Sitting	53.37139806	-3.4874403
Rhyl	05/04/2009	2	11:14:48.166	16.12.05.953	1334	Auk	Moderate	2	Sitting	53.37538944	-3.4873564
Rhyl	05/04/2009	2	11:23:44.018	16.12.05.953	5611	Common Gull	Moderate	1	Flying	53.33538028	-3.4585947
Rhyl	05/04/2009	2	11:23:52.246	16.12.05.953	5735	Cormorant	Moderate	1	Flying	53.34130417	-3.4583919
Rhyl	05/04/2009	2	11:24:18.461	16.12.05.953	6130	Gull	Moderate	1	Sitting	53.3603275	-3.4579561
Rhyl	05/04/2009	2	11:24:26.754	16.12.05.953	6255	Scoter	High	2	Sitting	53.36640694	-3.4577658
Rhyl	05/04/2009	2	11:24:36.641	16.12.05.953	6404	Scoter	Moderate	2	Sitting	53.37350139	-3.4574703
Rhyl	05/04/2009	2	11:25:22.295	16.12.05.953	7092	Gull	Moderate	1	Flying	53.40623639	-3.4574278
Rhyl	05/04/2009	2	11:34:01.597	16.12.05.953	10701	Gull	High	1	Flying	53.35333278	-3.4273611
Rhyl	05/04/2009	2	11:34:33.381	16.12.05.953	11180	Scoter	High	2	Sitting	53.37465444	-3.4271039
Rhyl	05/04/2009	2	11:34:37.960	16.12.05.953	11249	Scoter	High	2	Sitting	53.3777825	-3.4270436
Rhyl	05/04/2009	2	11:34:43.600	16.12.05.953	11334	Scoter	High	2	Sitting	53.38156361	-3.4270392
Rhyl	05/04/2009	2	11:34:43.865	16.12.05.953	11338	Scoter	High	4	Sitting	53.38169806	-3.42704
Rhyl	05/04/2009	2	11:34:44.529	16.12.05.953	11348	Scoter	High	4	Sitting	53.38210083	-3.4270425
Rhyl	05/04/2009	2	11:40:36.215	16.36.41.015	1251	Scoter	High	6	Sitting	53.37986194	-3.4128842
Rhyl	05/04/2009	2	11:40:36.546	16.36.41.015	1256	Scoter	High	2	Sitting	53.37961278	-3.4128906
Rhyl	05/04/2009	2	11:40:37.077	16.36.41.015	1264	Scoter	High	1	Sitting	53.37923861	-3.4128989
Rhyl	05/04/2009	2	11:40:37.143	16.36.41.015	1266	Scoter	High	5	Sitting	53.37923861	-3.4128989

Rhyl	05/04/2009	2	11:40:37.276	16.36.41.015	1267	Scoter	High	2	Sitting	53.37911417	-3.4129011
Rhyl	05/04/2009	2	11:40:37.675	16.36.41.015	1273	Scoter	High	1	Sitting	53.378865	-3.4129053
Rhyl	05/04/2009	2	11:41:26.578	16.36.41.015	2010	Gull	Moderate	1	Sitting	53.34857139	-3.4135697
Rhyl	05/04/2009	2	11:41:26.844	16.36.41.015	2014	Gull	Moderate	1	Sitting	53.34844583	-3.4135714
Rhyl	05/04/2009	2	11:41:26.977	16.36.41.015	2016	Gull	Moderate	6	Sitting	53.34832056	-3.4135728
Rhyl	05/04/2009	2	11:41:27.109	16.36.41.015	2018	Gull	Moderate	1	Sitting	53.34832056	-3.4135728
Rhyl	05/04/2009	2	11:41:27.175	16.36.41.015	2019	Gull	Moderate	1	Sitting	53.34819528	-3.4135739
Rhyl	05/04/2009	2	11:41:27.309	16.36.41.015	2021	Gull	Moderate	3	Sitting	53.34819528	-3.4135739
Rhyl	05/04/2009	2	11:41:27.375	16.36.41.015	2022	Gull	Moderate	1	Sitting	53.34807	-3.413575
Rhyl	05/04/2009	2	11:41:27.440	16.36.41.015	2023	Gull	Moderate	1	Sitting	53.34807	-3.413575
Rhyl	05/04/2009	2	11:41:27.507	16.36.41.015	2024	Gull	Moderate	1	Sitting	53.34807	-3.413575
Rhyl	05/04/2009	2	11:43:45.660	16.36.41.015	2262	Gull	Moderate	4	Sitting	53.34866111	-3.3977103
Rhyl	05/04/2009	2	11:43:46.589	16.36.41.015	2276	Gull	Moderate	1	Flying	53.34919389	-3.3976778
Rhyl	05/04/2009	2	11:45:01.505	16.36.41.015	3405	Auk	Low	1	Sitting	53.40012833	-3.3968917
Rhyl	05/04/2009	2	11:45:01.571	16.36.41.015	3406	Auk	Low	1	Sitting	53.40026833	-3.3968881
Rhyl	05/04/2009	2	11:45:02.898	16.36.41.015	3426	Gull	High	1	Flying	53.40110806	-3.3968672
Rhyl	05/04/2009	2	11:50:08.997	16.36.41.015	5767	Herring Gull	High	1	Flying	53.37068806	-3.3674244
Rhyl	05/04/2009	2	11:50:16.761	16.36.41.015	5884	Gull	Moderate	4	Sitting	53.36561306	-3.3675342
Rhyl	05/04/2009	2	11:50:16.828	16.36.41.015	5885	Gull	Moderate	3	Sitting	53.36561306	-3.3675342
Rhyl	05/04/2009	2	11:50:17.027	16.36.41.015	5888	Gull	Moderate	1	Sitting	53.3654825	-3.3675375
Rhyl	05/04/2009	2	11:50:20.281	16.36.41.015	5937	Gull	Moderate	4	Sitting	53.3633925	-3.3675786
Rhyl	05/04/2009	2	11:50:20.345	16.36.41.015	5938	Gull	Moderate	3	Sitting	53.3633925	-3.3675786
Rhyl	05/04/2009	2	11:54:32.895	16.36.41.015	7717	Large Gull	High	1	Flying	53.41448306	-3.3512456
Rhyl	05/04/2009	2	11:58:30.250	16.36.41.015	8973	Herring Gull	Moderate	1	Flying	53.41954306	-3.3363589
Rhyl	05/04/2009	2	11:59:54.189	16.36.41.015	10238	Large Gull	Moderate	1	Flying	53.36498528	-3.3386844
Rhyl	05/04/2009	2	12:02:08.560	17.00.45.203	144	Gull	Moderate	2	Sitting	53.35876167	-3.3231861
Rhyl	05/04/2009	2	12:02:08.626	17.00.45.203	145	Gull	Moderate	3	Sitting	53.35876167	-3.3231861
Rhyl	05/04/2009	2	12:02:08.693	17.00.45.203	146	Gull	Moderate	5	Sitting	53.35876167	-3.3231861
Rhyl	05/04/2009	2	12:02:08.759	17.00.45.203	147	Gull	Moderate	23	Sitting	53.35889917	-3.3231944
Rhyl	05/04/2009	2	12:02:08.891	17.00.45.203	149	Gull	Moderate	34	Sitting	53.35889917	-3.3231944
Rhyl	05/04/2009	2	12:02:08.958	17.00.45.203	150	Gull	Moderate	30	Sitting	53.35889917	-3.3231944
Rhyl	05/04/2009	2	12:02:09.024	17.00.45.203	151	Gull	Moderate	35	Sitting	53.35889917	-3.3231944
Rhyl	05/04/2009	2	12:02:09.224	17.00.45.203	154	Gull	Moderate	2	Sitting	53.35917444	-3.3232119
Rhyl	05/04/2009	2	12:02:09.290	17.00.45.203	155	Gull	Moderate	1	Sitting	53.35931194	-3.3232206
Rhyl	05/04/2009	2	12:02:36.496	17.00.45.203	565	Diver	Low	1	Sitting	53.37781139	-3.3231556
Rhyl	05/04/2009	2	12:02:44.857	17.00.45.203	691	Gull	Low	1	Sitting	53.38343361	-3.3228889
Rhyl	05/04/2009	2	12:02:46.184	17.00.45.203	711	Gull	Low	1		53.384235	-3.3228467
Rhyl	05/04/2009	2	12:04:09.461	17.00.45.203	1966	Gull	High	1	Flying	53.44106722	-3.3205261

Rhyl	05/04/2009	2	12:06:51.301	17.00.45.203	2221	Gull	Low	1	Sitting	53.45416778	-3.3048647
Rhyl	05/04/2009	2	12:06:54.818	17.00.45.203	2274	Gull	Low	1	Sitting	53.45213333	-3.3050097
Rhyl	05/04/2009	2	12:07:15.919	17.00.45.203	2592	Gull	Low	1	Sitting	53.43938611	-3.3059469
Rhyl	05/04/2009	2	12:09:15.361	17.00.45.203	4392	Gull	High	2	Sitting	53.36315694	-3.3083103
Rhyl	05/04/2009	2	12:09:15.559	17.00.45.203	4395	Gull	High	240	Sitting	53.36302639	-3.3083108
Rhyl	05/04/2009	2	12:09:15.759	17.00.45.203	4398	Gull	High	8	Sitting	53.36302639	-3.3083108
Rhyl	05/04/2009	2	12:12:01.715	17.00.45.203	5098	Gull	High	2	Flying	53.38476333	-3.2925961
Rhyl	05/04/2009	2	12:12:02.710	17.00.45.203	5113	Large Gull	High	1	Flying	53.38545083	-3.2925536
Rhyl	05/04/2009	2	12:12:17.574	17.00.45.203	5337	Gull	Low	2	Sitting	53.39566083	-3.2918958
Rhyl	05/04/2009	2	12:12:18.105	17.00.45.203	5345	Gull	Low	1	Sitting	53.39593639	-3.29188
Rhyl	05/04/2009	2	12:12:39.009	17.00.45.203	5660	Auk	Low	2	Sitting	53.41043056	-3.2912733
Rhyl	05/04/2009	2	12:13:32.974	17.00.45.203	6458	Gull	Low	1	Sitting	53.44756139	-3.2900528
Rhyl	05/04/2009	2	12:17:47.644	17.00.45.203	8440	Gull	High	1	Flying	53.39391167	-3.2773058
Rhyl	05/04/2009	2	12:17:49.171	17.00.45.203	8463	Gull	Low	1		53.3929	-3.2773392
Rhyl	05/04/2009	2	12:18:19.569	17.00.45.203	8921	Gull	Low	1	Sitting	53.37332806	-3.2781467
Rhyl	05/04/2009	2	12:18:20.763	17.00.45.203	8939	Gull	Low	1	Sitting	53.37267417	-3.2781744
Rhyl	05/04/2009	2	12:20:44.196	17.00.45.203	9207	Gull	Low	1	Sitting	53.37174	-3.2633058
Rhyl	05/04/2009	2	12:21:13.201	17.00.45.203	9644	Gull	Low	1	Sitting	53.39199917	-3.2627742
Rhyl	05/04/2009	2	12:21:13.533	17.00.45.203	9649	Auk	Low	1	Sitting	53.39227944	-3.2627692
Rhyl	05/04/2009	2	12:21:58.401	17.00.45.203	10325	Gull	Low	2	Sitting	53.42369583	-3.2615508
Rhyl	05/04/2009	2	12:22:23.092	17.00.45.203	10697	Auk	High	6	Sitting	53.44113194	-3.2605308
Rhyl	05/04/2009	2	12:22:56.346	17.00.45.203	11198	Auk	High	1	Sitting	53.46485972	-3.2587756
Rhyl	05/04/2009	2	12:22:58.005	17.00.45.203	11223	Auk	High	1	Sitting	53.46600806	-3.2587167
Rhyl	05/04/2009	2	12:23:00.128	17.00.45.203	11255	Herring Gull	High	1	Flying	53.46759222	-3.2586369
Rhyl	05/04/2009	2	12:23:01.721	17.00.45.203	11279	Gull	Low	1		53.46874444	-3.2585764
Rhyl	05/04/2009	2	12:25:25.089	17.00.45.203	11369	Gull	Low	1	Sitting	53.47191944	-3.2444761
Rhyl	05/04/2009	2	12:25:25.155	17.00.45.203	11370	Gull	Low	1	Sitting	53.47191944	-3.2444761
Rhyl	05/04/2009	2	12:25:25.619	17.00.45.203	11377	Gull	Low	1	Sitting	53.47153972	-3.2444897
Rhyl	05/04/2009	2	12:25:25.752	17.00.45.203	11379	Gull	Moderate	1	Flying	53.47153972	-3.2444897
Rhyl	05/04/2009	2	12:25:49.448	17.00.45.203	11736	Gull	Low	1	Sitting	53.45655694	-3.2450339
Rhyl	05/04/2009	2	12:26:35.976	17.00.45.203	12437	Auk	Moderate	5	Sitting	53.42666083	-3.2466467
Rhyl	05/04/2009	3	10:01:59.326	14.44.09.578	3674	Common Scoter	High	4	Swimming	53.36159	-3.7004433
Rhyl	05/04/2009	3	10:01:59.724	14.44.09.578	3680	Common Scoter	High	2	Sitting	53.36186333	-3.7004419
Rhyl	05/04/2009	3	10:02:02.910	14.44.09.578	3728	Common Scoter	High	3	Sitting	53.36405639	-3.7004242
Rhyl	05/04/2009	3	10:02:03.574	14.44.09.578	3738	Common Scoter	Moderate	1	Sitting	53.36460694	-3.7004147
Rhyl	05/04/2009	3	10:02:03.972	14.44.09.578	3744	Common Scoter	High	2	Sitting	53.3648825	-3.7004094
Rhyl	05/04/2009	3	10:02:04.105	14.44.09.578	3746	Common Scoter	High	4	Sitting	53.3648825	-3.7004094
Rhyl	05/04/2009	3	10:02:04.171	14.44.09.578	3747	Common Scoter	High	1	Sitting	53.3648825	-3.7004094

Rhyl	05/04/2009	3	10:02:04.238	14.44.09.578	3748	Common Scoter	High	1	Sitting	53.36502028	-3.7004067
Rhyl	05/04/2009	3	10:02:04.371	14.44.09.578	3750	Common Scoter	High	3	Sitting	53.36515806	-3.7004039
Rhyl	05/04/2009	3	10:02:04.702	14.44.09.578	3755	Large Gull	High	1	Sitting	53.36529611	-3.7004008
Rhyl	05/04/2009	3	10:02:05.034	14.44.09.578	3760	Common Scoter	High	1	Sitting	53.36557194	-3.700395
Rhyl	05/04/2009	3	10:02:05.100	14.44.09.578	3761	Common Scoter	High	4	Sitting	53.36557194	-3.700395
Rhyl	05/04/2009	3	10:02:05.167	14.44.09.578	3762	Common Scoter	High	2	Sitting	53.36557194	-3.700395
Rhyl	05/04/2009	3	10:02:06.560	14.44.09.578	3783	Auk	Moderate	2	Sitting	53.36653806	-3.7003714
Rhyl	05/04/2009	3	10:02:06.693	14.44.09.578	3785	Auk	High	2	Sitting	53.36667583	-3.7003678
Rhyl	05/04/2009	3	10:02:07.158	14.44.09.578	3792	Diver	Low	1	Sitting	53.36695139	-3.7003594
Rhyl	05/04/2009	3	10:02:10.675	14.44.09.578	3845	Auk	High	1	Sitting	53.36942083	-3.7002714
Rhyl	05/04/2009	3	10:02:19.701	14.44.09.578	3981	Auk	High	1	Sitting	53.37554639	-3.7001081
Rhyl	05/04/2009	3	10:02:29.457	14.44.09.578	4128	Gull	High	1	Flying	53.38202278	-3.6998872
Rhyl	05/04/2009	3	10:06:40.388	14.44.09.578	5739	Gull	Low	1	Sitting	53.35242889	-3.6850022
Rhyl	05/04/2009	3	10:09:59.281	14.44.09.578	7106	Auk	High	1	Sitting	53.29796528	-3.6858433
Rhyl	05/04/2009	3	10:10:57.748	14.44.09.578	8051	Auk	Moderate	1	Sitting	53.3301625	-3.6708514
Rhyl	05/04/2009	3	10:11:15.867	14.44.09.578	8324	Common Scoter	Moderate	3	Sitting	53.3425925	-3.6706564
Rhyl	05/04/2009	3	10:11:15.999	14.44.09.578	8326	Common Scoter	High	1	Sitting	53.3425925	-3.6706564
Rhyl	05/04/2009	3	10:11:16.066	14.44.09.578	8327	Common Scoter	High	1	Sitting	53.34272889	-3.6706561
Rhyl	05/04/2009	3	10:11:16.132	14.44.09.578	8328	Common Scoter	High	3	Sitting	53.34272889	-3.6706561
Rhyl	05/04/2009	3	10:11:16.199	14.44.09.578	8329	Common Scoter	High	1	Sitting	53.34272889	-3.6706561
Rhyl	05/04/2009	3	10:11:16.265	14.44.09.578	8330	Common Scoter	High	1	Sitting	53.34286528	-3.6706558
Rhyl	05/04/2009	3	10:11:16.464	14.44.09.578	8333	Common Scoter	High	2	Sitting	53.34300194	-3.6706558
Rhyl	05/04/2009	3	10:11:17.128	14.44.09.578	8345	Common Scoter	High	5	Sitting	53.34354833	-3.6706547
Rhyl	05/04/2009	3	10:11:17.460	14.44.09.578	8348	Common Scoter	High	2	Sitting	53.343685	-3.6706542
Rhyl	05/04/2009	3	10:11:19.119	14.44.09.578	8373	Common Scoter	High	2	Sitting	53.34478111	-3.6706431
Rhyl	05/04/2009	3	10:11:19.318	14.44.09.578	8376	Common Scoter	High	2	Sitting	53.34491833	-3.6706411
Rhyl	05/04/2009	3	10:11:20.247	14.44.09.578	8390	Common Scoter	High	4	Sitting	53.34546778	-3.6706317
Rhyl	05/04/2009	3	10:11:20.513	14.44.09.578	8394	Common Scoter	High	3	Sitting	53.34574306	-3.6706256
Rhyl	05/04/2009	3	10:11:20.579	14.44.09.578	8395	Common Scoter	High	2	Sitting	53.34574306	-3.6706256
Rhyl	05/04/2009	3	10:11:20.646	14.44.09.578	8396	Common Scoter	High	5	Sitting	53.34588056	-3.6706222
Rhyl	05/04/2009	3	10:11:20.711	14.44.09.578	8397	Common Scoter	High	1	Sitting	53.34588056	-3.6706222
Rhyl	05/04/2009	3	10:11:20.778	14.44.09.578	8398	Common Scoter	High	7	Sitting	53.34588056	-3.6706222
Rhyl	05/04/2009	3	10:11:20.844	14.44.09.578	8399	Common Scoter	High	3	Sitting	53.34588056	-3.6706222
Rhyl	05/04/2009	3	10:11:20.911	14.44.09.578	8400	Common Scoter	High	4	Sitting	53.34601833	-3.6706186
Rhyl	05/04/2009	3	10:11:21.044	14.44.09.578	8402	Common Scoter	High	4	Sitting	53.34601833	-3.6706186
Rhyl	05/04/2009	3	10:11:21.111	14.44.09.578	8403	Common Scoter	High	1	Sitting	53.34615583	-3.6706153
Rhyl	05/04/2009	3	10:11:21.309	14.44.09.578	8406	Common Scoter	High	4	Sitting	53.34629361	-3.6706119
Rhyl	05/04/2009	3	10:11:21.442	14.44.09.578	8408	Common Scoter	High	2	Sitting	53.34643139	-3.6706083

Rhyl	05/04/2009	3	10:11:21.575	14.44.09.578	8410	Common Scoter	High	1	Sitting	53.34643139	-3.6706083
Rhyl	05/04/2009	3	10:11:21.640	14.44.09.578	8411	Common Scoter	High	2	Sitting	53.34643139	-3.6706083
Rhyl	05/04/2009	3	10:11:21.708	14.44.09.578	8412	Common Scoter	High	1	Sitting	53.34656917	-3.670605
Rhyl	05/04/2009	3	10:11:21.773	14.44.09.578	8413	Common Scoter	High	1	Sitting	53.34656917	-3.670605
Rhyl	05/04/2009	3	10:11:22.105	14.44.09.578	8418	Common Scoter	High	6	Sitting	53.34684472	-3.6705986
Rhyl	05/04/2009	3	10:11:22.173	14.44.09.578	8419	Common Scoter	High	1	Sitting	53.34684472	-3.6705986
Rhyl	05/04/2009	3	10:11:22.703	14.44.09.578	8427	Common Scoter	High	3	Sitting	53.34725833	-3.6705894
Rhyl	05/04/2009	3	10:11:22.769	14.44.09.578	8428	Common Scoter	High	2	Sitting	53.34725833	-3.6705894
Rhyl	05/04/2009	3	10:11:23.234	14.44.09.578	8435	Common Scoter	High	3	Sitting	53.34753417	-3.6705842
Rhyl	05/04/2009	3	10:11:23.432	14.44.09.578	8438	Common Scoter	High	3	Sitting	53.34767222	-3.6705819
Rhyl	05/04/2009	3	10:11:23.499	14.44.09.578	8439	Common Scoter	High	5	Sitting	53.34767222	-3.6705819
Rhyl	05/04/2009	3	10:11:24.296	14.44.09.578	8451	Common Scoter	High	4	Sitting	53.34836167	-3.6705697
Rhyl	05/04/2009	3	10:11:24.561	14.44.09.578	8455	Common Scoter	High	1	Sitting	53.34849972	-3.6705672
Rhyl	05/04/2009	3	10:11:24.627	14.44.09.578	8456	Common Scoter	High	2	Sitting	53.34849972	-3.6705672
Rhyl	05/04/2009	3	10:11:24.694	14.44.09.578	8457	Common Scoter	High	5	Sitting	53.3486375	-3.6705644
Rhyl	05/04/2009	3	10:11:24.760	14.44.09.578	8458	Common Scoter	High	3	Sitting	53.3486375	-3.6705644
Rhyl	05/04/2009	3	10:11:24.893	14.44.09.578	8460	Common Scoter	High	6	Sitting	53.34877556	-3.6705617
Rhyl	05/04/2009	3	10:11:24.959	14.44.09.578	8461	Common Scoter	High	1	Sitting	53.34877556	-3.6705617
Rhyl	05/04/2009	3	10:11:25.025	14.44.09.578	8462	Common Scoter	High	3	Sitting	53.34877556	-3.6705617
Rhyl	05/04/2009	3	10:11:25.092	14.44.09.578	8463	Common Scoter	High	3	Sitting	53.34891333	-3.6705589
Rhyl	05/04/2009	3	10:11:25.158	14.44.09.578	8464	Common Scoter	High	1	Sitting	53.34891333	-3.6705589
Rhyl	05/04/2009	3	10:11:25.358	14.44.09.578	8467	Common Scoter	High	2	Sitting	53.34905139	-3.6705558
Rhyl	05/04/2009	3	10:11:25.622	14.44.09.578	8471	Common Scoter	High	2	Sitting	53.34918917	-3.6705525
Rhyl	05/04/2009	3	10:11:26.153	14.44.09.578	8479	Common Scoter	High	4	Sitting	53.34960278	-3.6705422
Rhyl	05/04/2009	3	10:11:26.286	14.44.09.578	8481	Common Scoter	High	4	Sitting	53.34974083	-3.6705386
Rhyl	05/04/2009	3	10:11:26.353	14.44.09.578	8482	Common Scoter	High	1	Sitting	53.34974083	-3.6705386
Rhyl	05/04/2009	3	10:11:26.420	14.44.09.578	8483	Common Scoter	High	3	Sitting	53.34974083	-3.6705386
Rhyl	05/04/2009	3	10:11:26.486	14.44.09.578	8484	Common Scoter	High	12	Sitting	53.34987861	-3.670535
Rhyl	05/04/2009	3	10:11:26.552	14.44.09.578	8485	Common Scoter	High	7	Sitting	53.34987861	-3.670535
Rhyl	05/04/2009	3	10:11:26.618	14.44.09.578	8486	Common Scoter	High	3	Sitting	53.34987861	-3.670535
Rhyl	05/04/2009	3	10:11:26.785	14.44.09.578	8487	Common Scoter	High	3	Sitting	53.35001667	-3.6705314
Rhyl	05/04/2009	3	10:11:27.083	14.44.09.578	8493	Common Scoter	High	1	Sitting	53.35029222	-3.6705242
Rhyl	05/04/2009	3	10:11:27.215	14.44.09.578	8495	Common Scoter	High	2	Sitting	53.35029222	-3.6705242
Rhyl	05/04/2009	3	10:11:27.348	14.44.09.578	8497	Common Scoter	High	5	Sitting	53.35043028	-3.6705211
Rhyl	05/04/2009	3	10:11:27.879	14.44.09.578	8505	Common Scoter	High	3	Sitting	53.35084389	-3.6705122
Rhyl	05/04/2009	3	10:11:27.946	14.44.09.578	8506	Common Scoter	High	5	Sitting	53.35084389	-3.6705122
Rhyl	05/04/2009	3	10:11:28.145	14.44.09.578	8509	Common Scoter	High	2	Sitting	53.35098167	-3.6705097
Rhyl	05/04/2009	3	10:11:28.211	14.44.09.578	8510	Common Scoter	High	2	Sitting	53.35098167	-3.6705097

Rhyl	05/04/2009	3	10:11:28.344	14.44.09.578	8512	Common Scoter	High	10	Sitting	53.35111972	-3.6705069
Rhyl	05/04/2009	3	10:11:28.344	14.44.09.578	8512	Common Scoter	High	3	Swimming	53.35111972	-3.6705069
Rhyl	05/04/2009	3	10:11:28.410	14.44.09.578	8513	Common Scoter	High	2	Sitting	53.35111972	-3.6705069
Rhyl	05/04/2009	3	10:11:28.477	14.44.09.578	8514	Common Scoter	High	1	Sitting	53.3512575	-3.6705044
Rhyl	05/04/2009	3	10:11:28.609	14.44.09.578	8516	Common Scoter	High	1	Sitting	53.3512575	-3.6705044
Rhyl	05/04/2009	3	10:11:28.675	14.44.09.578	8517	Common Scoter	High	2	Sitting	53.35139528	-3.6705019
Rhyl	05/04/2009	3	10:11:28.742	14.44.09.578	8518	Common Scoter	High	2	Sitting	53.35139528	-3.6705019
Rhyl	05/04/2009	3	10:11:28.941	14.44.09.578	8521	Common Scoter	High	2	Sitting	53.35153333	-3.6704994
Rhyl	05/04/2009	3	10:11:29.473	14.44.09.578	8529	Common Scoter	High	4	Swimming	53.35180889	-3.6704942
Rhyl	05/04/2009	3	10:11:33.520	14.44.09.578	8590	Common Scoter	High	2	Sitting	53.35470139	-3.6704256
Rhyl	05/04/2009	3	10:11:36.507	14.44.09.578	8635	Common Scoter	High	2	Sitting	53.35676389	-3.6703525
Rhyl	05/04/2009	3	10:11:39.427	14.44.09.578	8679	Auk	High	2	Sitting	53.35868667	-3.6702806
Rhyl	05/04/2009	3	10:11:42.945	14.44.09.578	8732	Common Scoter	High	4	Sitting	53.36115222	-3.6701567
Rhyl	05/04/2009	3	10:11:43.077	14.44.09.578	8734	Common Scoter	High	1	Sitting	53.36115222	-3.6701567
Rhyl	05/04/2009	3	10:12:17.787	14.44.09.578	9257	gull	High	1	Flying	53.38460056	-3.6696078
Rhyl	05/04/2009	3	10:12:23.827	14.44.09.578	9348	gull	High	1	Flying	53.38880833	-3.6695003
Rhyl	05/04/2009	3	10:21:01.559	15.18.43.531	838	Common Scoter	High	2	Sitting	53.32394111	-3.6402856
Rhyl	05/04/2009	3	10:21:07.330	15.18.43.531	925	Gull	Low	1	Sitting	53.32783167	-3.6400408
Rhyl	05/04/2009	3	10:21:16.423	15.18.43.531	1062	Common Scoter	High	11	Sitting	53.333945	-3.6398381
Rhyl	05/04/2009	3	10:21:16.821	15.18.43.531	1068	Common Scoter	High	27	Sitting	53.33421083	-3.6398314
Rhyl	05/04/2009	3	10:21:16.954	15.18.43.531	1070	Common Scoter	High	14	Sitting	53.33421083	-3.6398314
Rhyl	05/04/2009	3	10:21:26.577	15.18.43.531	1215	Common Scoter	High	4	Sitting	53.34057917	-3.6397411
Rhyl	05/04/2009	3	10:21:26.776	15.18.43.531	1218	Common Scoter	High	2	Swimming	53.34071222	-3.6397392
Rhyl	05/04/2009	3	10:21:29.232	15.18.43.531	1255	Common Scoter	High	5	Sitting	53.34244333	-3.6397147
Rhyl	05/04/2009	3	10:21:29.563	15.18.43.531	1260	Common Scoter	High	21	Sitting	53.34257667	-3.6397131
Rhyl	05/04/2009	3	10:21:30.028	15.18.43.531	1267	Common Scoter	High	15	Sitting	53.34284361	-3.6397094
Rhyl	05/04/2009	3	10:21:30.492	15.18.43.531	1274	Common Scoter	High	15	Sitting	53.34324389	-3.6397025
Rhyl	05/04/2009	3	10:21:30.893	15.18.43.531	1280	Common Scoter	High	18	Sitting	53.34351111	-3.6396975
Rhyl	05/04/2009	3	10:21:31.157	15.18.43.531	1284	Common Scoter	High	2	Flying	53.34364472	-3.639695
Rhyl	05/04/2009	3	10:21:31.157	15.18.43.531	1284	Common Scoter	High	16	Sitting	53.34364472	-3.639695
Rhyl	05/04/2009	3	10:21:31.554	15.18.43.531	1290	Common Scoter	High	10	Sitting	53.34391194	-3.63969
Rhyl	05/04/2009	3	10:21:31.888	15.18.43.531	1295	Common Scoter	High	8	Sitting	53.34417944	-3.6396847
Rhyl	05/04/2009	3	10:21:32.152	15.18.43.531	1299	Common Scoter	High	3	Sitting	53.34431306	-3.6396819
Rhyl	05/04/2009	3	10:21:32.484	15.18.43.531	1304	Common Scoter	High	6	Sitting	53.34458083	-3.6396761
Rhyl	05/04/2009	3	10:21:33.215	15.18.43.531	1315	Common Scoter	High	2	Sitting	53.34498222	-3.6396672
Rhyl	05/04/2009	3	10:21:33.612	15.18.43.531	1321	Common Scoter	High	4	Sitting	53.34525	-3.6396617
Rhyl	05/04/2009	3	10:21:33.946	15.18.43.531	1326	Common Scoter	High	2	Sitting	53.34551806	-3.6396567
Rhyl	05/04/2009	3	10:21:34.408	15.18.43.531	1333	Common Scoter	High	11	Sitting	53.34578611	-3.6396522

Rhyl	05/04/2009	3	10:21:35.272	15.18.43.531	1346	Common Scoter	High	2	Sitting	53.34645694	-3.6396417
Rhyl	05/04/2009	3	10:21:36.134	15.18.43.531	1359	Common Scoter	High	1	Flying	53.34699444	-3.6396319
Rhyl	05/04/2009	3	10:21:36.532	15.18.43.531	1365	Common Scoter	High	14	Sitting	53.34726333	-3.6396272
Rhyl	05/04/2009	3	10:22:25.312	15.18.43.531	2100	Auk	High	1	Sitting	53.37951778	-3.6391322
Rhyl	05/04/2009	3	10:21:55.381	15.18.43.531	1649	Gull	High	1	Flying	53.35980333	-3.6395644
Rhyl	05/04/2009	3	10:31:17.246	15.18.43.531	6194	Gull	High	1	Flying	53.30670944	-3.6111253
Rhyl	05/04/2009	3	10:31:17.843	15.18.43.531	6203	Common Scoter	High	3	Sitting	53.30711083	-3.6111017
Rhyl	05/04/2009	3	10:31:18.306	15.18.43.531	6210	Common Scoter	High	15	Sitting	53.30737861	-3.6110844
Rhyl	05/04/2009	3	10:31:18.771	15.18.43.531	6217	Common Scoter	High	20	Sitting	53.30764667	-3.6110664
Rhyl	05/04/2009	3	10:31:18.771	15.18.43.531	6217	Large Gull	High	1	Sitting	53.30764667	-3.6110664
Rhyl	05/04/2009	3	10:31:18.837	15.18.43.531	6218	Common Scoter	High	10	Swimming	53.30778111	-3.6110569
Rhyl	05/04/2009	3	10:31:18.837	15.18.43.531	6218	Large Gull	High	1	Sitting	53.30778111	-3.6110569
Rhyl	05/04/2009	3	10:31:19.036	15.18.43.531	6221	Common Scoter	High	19	Sitting	53.30791528	-3.6110475
Rhyl	05/04/2009	3	10:31:19.235	15.18.43.531	6224	Large Gull	High	1	Flying	53.30804972	-3.6110381
Rhyl	05/04/2009	3	10:31:19.368	15.18.43.531	6226	Common Scoter	High	6	Sitting	53.30818417	-3.6110286
Rhyl	05/04/2009	3	10:31:19.567	15.18.43.531	6229	Large Gull	High	1	Sitting	53.30818417	-3.6110286
Rhyl	05/04/2009	3	10:31:19.567	15.18.43.531	6229	Common Scoter	High	9	Swimming	53.30818417	-3.6110286
Rhyl	05/04/2009	3	10:31:19.766	15.18.43.531	6232	Common Scoter	High	14	Swimming	53.30845333	-3.6110097
Rhyl	05/04/2009	3	10:31:19.966	15.18.43.531	6235	Large Gull	Moderate	1	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	3	10:31:19.966	15.18.43.531	6235	Common Scoter	High	18	Swimming	53.30845333	-3.6110097
Rhyl	05/04/2009	3	10:31:20.231	15.18.43.531	6239	Common Scoter	High	19	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	3	10:31:26.137	15.18.43.531	6328	Gull	High	1	Sitting	53.31264694	-3.6106964
Rhyl	05/04/2009	3	10:31:28.726	15.18.43.531	6367	Common Scoter	High	7	Swimming	53.31440556	-3.61061
Rhyl	05/04/2009	3	10:31:36.756	15.18.43.531	6488	Common Scoter	High	2	Sitting	53.31978694	-3.6103719
Rhyl	05/04/2009	3	10:31:37.000	15.18.43.531	6495	Common Scoter	High	2	Sitting	53.32018917	-3.61035
Rhyl	05/04/2009	3	10:31:37.000	15.18.43.531	6498	Common Scoter	High	6	Sitting	53.32018917	-3.61035
Rhyl	05/04/2009	3	10:31:38.313	15.18.43.531	6519	Common Scoter	High	4	Sitting	53.32125917	-3.6103031
Rhyl	05/04/2009	3	10:31:39.012	15.18.43.531	6522	Gull	High	1	Sitting	53.3213925	-3.6102981
Rhyl	05/04/2009	3	10:31:39.012	15.18.43.531	6522	Common Scoter	High	2	Sitting	53.3213925	-3.6102981
Rhyl	05/04/2009	3	10:31:39.211	15.18.43.531	6525	Common Scoter	High	2	Sitting	53.32152611	-3.6102928
Rhyl	05/04/2009	3	10:31:39.211	15.18.43.531	6525	Gull	High	1	Sitting	53.32152611	-3.6102928
Rhyl	05/04/2009	3	10:31:39.477	15.18.43.531	6529	Common Scoter	High	9	Sitting	53.32165972	-3.6102878
Rhyl	05/04/2009	3	10:31:39.477	15.18.43.531	6529	Gull	High	1	Sitting	53.32165972	-3.6102878
Rhyl	05/04/2009	3	10:31:39.875	15.18.43.531	6535	Common Scoter	High	18	Sitting	53.32192667	-3.6102775
Rhyl	05/04/2009	3	10:31:40.672	15.18.43.531	6547	Common Scoter	High	5	Sitting	53.32246083	-3.6102594
Rhyl	05/04/2009	3	10:31:41.070	15.18.43.531	6553	Common Scoter	High	4	Sitting	53.32272778	-3.6102522
Rhyl	05/04/2009	3	10:31:41.468	15.18.43.531	6559	Common Scoter	High	17	Sitting	53.322995	-3.6102458
Rhyl	05/04/2009	3	10:31:42.132	15.18.43.531	6569	Common Scoter	High	1	Sitting	53.32339583	-3.6102369

Rhyl	05/04/2009	3	10:31:54.277	15.18.43.531	6752	Diver	Low	1	Sitting	53.33158	-3.6099661
Rhyl	05/04/2009	3	10:32:07.086	15.18.43.531	6945	Gull	Low	1	Sitting	53.3403975	-3.6096139
Rhyl	05/04/2009	3	10:32:09.143	15.18.43.531	6976	Common Scoter	High	8	Sitting	53.34178722	-3.6095636
Rhyl	05/04/2009	3	10:32:09.475	15.18.43.531	6981	Common Scoter	High	29	Sitting	53.34206528	-3.6095556
Rhyl	05/04/2009	3	10:32:09.808	15.18.43.531	6986	Common Scoter	High	4	Sitting	53.34220444	-3.6095514
Rhyl	05/04/2009	3	10:32:10.604	15.18.43.531	6998	Common Scoter	High	1	Sitting	53.34276028	-3.609535
Rhyl	05/04/2009	3	10:32:11.335	15.18.43.531	7009	Common Scoter	High	5	Sitting	53.34331611	-3.6095186
Rhyl	05/04/2009	3	10:32:11.600	15.18.43.531	7013	Common Scoter	High	4	Sitting	53.343455	-3.6095147
Rhyl	05/04/2009	3	10:32:14.719	15.18.43.531	7060	Common Scoter	High	2	Sitting	53.34567417	-3.6094633
Rhyl	05/04/2009	3	10:32:32.372	15.18.43.531	7326	Common Scoter	High	2	Sitting	53.35797167	-3.6091464
Rhyl	05/04/2009	3	10:32:33.036	15.18.43.531	7336	Auk	Moderate	1	Sitting	53.35839333	-3.6091358
Rhyl	05/04/2009	3	10:32:45.513	15.18.43.531	7425	Auk	Moderate	4	Sitting	53.36259333	-3.6090139
Rhyl	05/04/2009	3	10:32:51.950	15.18.43.531	7621	Large Gull	Moderate	1	Sitting	53.37153611	-3.6088447
Rhyl	05/04/2009	3	10:33:32.302	15.18.43.531	8229	Auk	Moderate	2	Sitting	53.39928583	-3.6081914
Rhyl	05/04/2009	3	10:33:32.302	15.18.43.531	8229	Gull	Moderate	1	Sitting	53.39928583	-3.6081914
Rhyl	05/04/2009	3	10:41:39.901	15.18.43.531	11839	Gull	Moderate	2	Sitting	53.29706806	-3.5806392
Rhyl	05/04/2009	3	10:42:19.655	15.18.43.531	12438	Gull	Moderate	1	Sitting	53.32416833	-3.5795417
Rhyl	05/04/2009	3	10:43:14.806	15.18.43.531	13269	Auk	Moderate	1	Sitting	53.36146694	-3.5785647
Rhyl	05/04/2009	3	10:43:21.641	15.18.43.531	13372	Auk	Low	1	Sitting	53.36600889	-3.5784669
Rhyl	05/04/2009	3	10:43:27.814	15.18.43.531	13465	Auk	Low	1	Sitting	53.37016556	-3.5783114
Rhyl	05/04/2009	3	10:43:31.132	15.18.43.531	13515	Common Scoter	Moderate	2	Sitting	53.37231889	-3.5782072
Rhyl	05/04/2009	3	10:44:25.155	15.18.43.531	13465	Auk	Moderate	1	Sitting	53.37016556	-3.5783114
Rhyl	05/04/2009	3	10:54:10.106	15.44.51.750	5015	Common Scoter	High	3	Sitting	53.38930028	-3.5478028
Rhyl	05/04/2009	3	10:54:10.239	15.44.51.750	5017	Common Scoter	High	3	Sitting	53.38943528	-3.5478031
Rhyl	05/04/2009	3	11:03:24.127	15.44.51.750	9364	Gull	High	1	flying	53.327105	-3.5196297
Rhyl	05/04/2009	3	11:03:25.587	15.44.51.750	9386	Gull	High	1	flying	53.32805028	-3.5195972
Rhyl	05/04/2009	3	11:03:27.578	15.44.51.750	9416	Gull	High	1	flying	53.32940278	-3.5195569
Rhyl	05/04/2009	3	11:03:30.962	15.44.51.750	9467	Gull	High	1	flying	53.33170639	-3.5195011
Rhyl	05/04/2009	3	11:04:54.706	15.44.51.750	10728	Diver	low	2	Sitting	53.38869028	-3.517445
Rhyl	05/04/2009	3	11:05:05.654	15.44.51.750	10893	Diver	Low	1	Sitting	53.39622167	-3.5171264
Rhyl	05/04/2009	3	11:05:05.654	15.44.51.750	10917	Auk	Moderate	1	Sitting	53.39731528	-3.5170883
Rhyl	05/04/2009	3	11:13:55.189	16.12.06.062	537	Gull	High	1	Sitting	53.34024167	-3.4885483
Rhyl	05/04/2009	3	11:13:55.189	16.12.06.062	537	Gull	High	1	Sitting	53.34024167	-3.4885483
Rhyl	05/04/2009	3	11:14:00.432	16.12.06.062	616	Gull	High	4	Sitting	53.34374917	-3.4884036
Rhyl	05/04/2009	3	11:14:28.103	16.12.06.062	1033	Diver	low	1	Sitting	53.36214583	-3.4878422
Rhyl	05/04/2009	3	11:14:37.592	16.12.06.062	1176	Common Scoter	High	2	Sitting	53.36835194	-3.4875139
Rhyl	05/04/2009	3	11:14:37.061	16.12.06.062	1168	Auk	Moderate	2	Sitting	53.36808694	-3.4875233
Rhyl	05/04/2009	3	11:14:37.526	16.12.06.062	1175	Common Scoter	high	2	Sitting	53.36835194	-3.4875139

Rhyl	05/04/2009	3	11:14:38.919	16.12.06.062	1196	Common Scoter	high	12	Sitting	53.36927917	-3.4874889
Rhyl	05/04/2009	3	11:14:39.516	16.12.06.062	1206	Common Scoter	high	6	Sitting	53.36967639	-3.48748
Rhyl	05/04/2009	3	11:14:41.309	16.12.06.062	1232	Common Scoter	high	3	Sitting	53.37086806	-3.4874533
Rhyl	05/04/2009	3	11:14:41.473	16.12.06.062	1236	Common Scoter	high	2	Sitting	53.37100056	-3.4874503
Rhyl	05/04/2009	3	11:15:09.179	16.12.06.062	1652	Common Scoter	high	1	Sitting	53.38951722	-3.4868972
Rhyl	05/04/2009	3	11:15:26.498	16.12.06.062	1913	Small Gull	Moderate	1	Sitting	53.40122417	-3.4867372
Rhyl	05/04/2009	3	11:15:46.870	16.12.06.062	2220	gull	High	3	Sitting	53.41501056	-3.4868333
Rhyl	05/04/2009	3	11:24:36.471	16.12.06.062	6402	auk	high	2	Sitting	53.37335639	-3.4574781
Rhyl	05/04/2009	3	11:24:38.263	16.12.06.062	6429	Common Scoter	High	4	Sitting	53.37465917	-3.4574161
Rhyl	05/04/2009	3	11:24:42.377	16.12.06.062	6491	Small Gull	Moderate	1	Sitting	53.37768361	-3.4573358
Rhyl	05/04/2009	3	11:25:26.373	16.12.06.062	7154	gull	High	1	Flying	53.40914472	-3.4574369
Rhyl	05/04/2009	3	11:34:34.960	16.12.06.062	11203	Common Scoter	High	1	Flying	53.37574278	-3.4270814
Rhyl	05/04/2009	3	11:34:35.225	16.12.06.062	11207	Common Scoter	High	6	Flying	53.37587889	-3.4270786
Rhyl	05/04/2009	3	11:34:36.553	16.12.06.062	11227	Common Scoter	High	9	Flying	53.37683139	-3.4270589
Rhyl	05/04/2009	3	11:34:44.648	16.12.06.062	11349	Common Scoter	High	23	Swimming	53.382235	-3.4270428
Rhyl	05/04/2009	3	11:35:17.960	16.12.06.062	11851	Auk	High	1	Sitting	53.405285	-3.4264114
Rhyl	05/04/2009	3	11:35:42.049	16.12.06.062	12214	Gull	High	3	Sitting	53.42218222	-3.4261178
Rhyl	05/04/2009	3	11:35:55.586	16.12.06.062	12418	Auk	High	2	Sitting	53.43148417	-3.42608
Rhyl	05/04/2009	3	11:40:35.420	16.36.41.156	1240	Common Scoter	High	6	Sitting	53.38023611	-3.4128739
Rhyl	05/04/2009	3	11:40:38.142	16.36.41.156	1281	Common Scoter	High	3	Sitting	53.37861583	-3.4129094
Rhyl	05/04/2009	3	11:40:39.999	16.36.41.156	1309	Common Scoter	High	7	Sitting	53.37737111	-3.4129297
Rhyl	05/04/2009	3	11:41:26.986	16.36.41.156	2000	gull	High	3	Sitting	53.34894722	-3.4135656
Rhyl	05/04/2009	3	11:43:45.340	16.36.41.156	2257	gull	High	4	Sitting	53.34852806	-3.3977186
Rhyl	05/04/2009	3	11:43:45.538	16.36.41.156	2260	gull	High	2	Sitting	53.34852806	-3.3977186
Rhyl	05/04/2009	3	11:43:52.108	16.36.41.156	2359	gull	High	1	Flying	53.35292083	-3.3975053
Rhyl	05/04/2009	3	11:44:20.907	16.36.41.156	2793	Common Scoter	High	3	Sitting	53.37222333	-3.3970689
Rhyl	05/04/2009	3	11:44:37.895	16.36.41.156	3049	Common Scoter	High	2	Sitting	53.38387778	-3.3971361
Rhyl	05/04/2009	3	11:44:38.094	16.36.41.156	3052	Common Scoter	High	2	Sitting	53.38401472	-3.3971364
Rhyl	05/04/2009	3	11:44:38.094	16.36.41.156	3052	Gull	High	1	Sitting	53.38401472	-3.3971364
Rhyl	05/04/2009	3	11:49:11.491	16.36.41.156	4900	Common Scoter	High	3	Sitting	53.40738889	-3.3667353
Rhyl	05/04/2009	3	11:49:11.757	16.36.41.156	4904	Common Scoter	High	9	Sitting	53.40726194	-3.3667358
Rhyl	05/04/2009	3	11:49:12.023	16.36.41.156	4908	Common Scoter	High	9	Sitting	53.40700806	-3.3667369
Rhyl	05/04/2009	3	11:49:12.222	16.36.41.156	4911	Common Scoter	High	1	Sitting	53.40688111	-3.3667375
Rhyl	05/04/2009	3	11:50:15.461	16.36.41.156	5864	Gull	High	1	Sitting	53.36639556	-3.3675147
Rhyl	05/04/2009	3	11:50:15.594	16.36.41.156	5866	Gull	High	1	Sitting	53.36639556	-3.3675147
Rhyl	05/04/2009	3	11:50:15.859	16.36.41.156	5870	Gull	High	8	Sitting	53.36626528	-3.3675181
Rhyl	05/04/2009	3	11:50:16.324	16.36.41.156	5877	Gull	High	8	Sitting	53.36587389	-3.3675278
Rhyl	05/04/2009	3	11:05:16.988	16.36.41.156	5887	Gull	High	7	Sitting	53.3654825	-3.3675375

Rhyl	05/04/2009	3	11:50:19.774	16.36.41.156	5929	Gull	High	7	Sitting	53.36365389	-3.3675739
Rhyl	05/04/2009	3	11:54:22.515	16.36.41.156	7560	Gull	High	1	Flying	53.40751194	-3.3515033
Rhyl	05/04/2009	3	11:54:31.871	16.36.41.156	7701	Gull	High	1	Flying	53.413815	-3.3512758
Rhyl	05/04/2009	3	11:54:32.933	16.36.41.156	7717	Gull	High	1	Flying	53.41448306	-3.3512456
Rhyl	05/04/2009	3	11:59:32.477	16.36.41.156	9910	Gull	High	1	Flying	53.37919139	-3.3377881
Rhyl	05/04/2009	3	12:02:08.618	17.00.45.328	146	Gull	High	4	Sitting	53.35876167	-3.3231861
Rhyl	05/04/2009	3	12:02:08.751	17.00.45.328	153	Gull	High	150	Sitting	53.35917444	-3.3232119
Rhyl	05/04/2009	3	12:02:44.120	17.00.45.328	681	Gull	High	1	Sitting	53.3829	-3.322915
Rhyl	05/04/2009	3	12:03:06.416	17.00.45.328	1017	Gull	Moderate	1	Sitting	53.39780333	-3.3223011
Rhyl	05/04/2009	3	12:04:01.295	17.00.45.328	1844	Gull	High	1	Flying	53.43549889	-3.320755
Rhyl	05/04/2009	3	12:06:59.993	17.00.45.328	2352	Gull	High	1	Flying	53.44891694	-3.3052858
Rhyl	05/04/2009	3	12:08:42.313	17.00.45.328	3893	Gull	High	1	Flying	53.38505194	-3.3081361
Rhyl	05/04/2009	3	12:09:16.088	17.00.45.328	4402	Gull	High	19	Sitting	53.36263444	-3.3083122
Rhyl	05/04/2009	3	12:13:04.616	17.00.45.328	6045	Small Gull	Moderate	2	Sitting	53.42847667	-3.2906083
Rhyl	05/04/2009	3	12:13:09.791	17.00.45.328	6123	Gull	High	1	Flying	53.43212056	-3.2905064
Rhyl	05/04/2009	3	12:16:15.855	17.00.45.328	7056	Gull	High	1	Flying	53.45249806	-3.2755125
Rhyl	05/04/2009	3	12:16:16.386	17.00.45.328	7064	Gull	High	1	Flying	53.45223667	-3.2755208
Rhyl	05/04/2009	3	12:17:01.575	17.00.45.328	7745	Small Gull	High	1	flying	53.42311222	-3.2766383
Rhyl	05/04/2009	3	12:18:25.984	17.00.45.328	9017	Tern Sp.	Moderate	1	flying	53.36914056	-3.2783392
Rhyl	05/04/2009	3	12:21:55.751	17.00.45.328	10285	Gull	High	2	Sitting	53.42187556	-3.2616194
Rhyl	05/04/2009	3	12:26:38.458	17.00.45.328	12475	auk	Low	2	Sitting	53.42511111	-3.2467092
Rhyl	05/04/2009	4	15:01:02.066	14.44.09.718	2814	Gull	High	1	Flying	53.3221575	-3.7007331
Rhyl	05/04/2009	4	15:01:47.126	14.44.09.718	3493	Common Scoter	High	8	Sitting	53.3534425	-3.7004886
Rhyl	05/04/2009	4	15:01:47.391	14.44.09.718	3497	Common Scoter	High	4	Sitting	53.35357889	-3.7004864
Rhyl	05/04/2009	4	15:01:47.922	14.44.09.718	3505	Common Scoter	High	9	Sitting	53.3539875	-3.7004797
Rhyl	05/04/2009	4	15:01:53.431	14.44.09.718	3588	Gull	Low	1	Sitting	53.35765306	-3.7004333
Rhyl	05/04/2009	4	15:06:48.748	14.44.09.718	5869	Gull	High	1	Flying	53.34734583	-3.6850425
Rhyl	05/04/2009	4	15:08:02.345	14.44.09.718	6978	Gull	Moderate	1	Flying	53.30314667	-3.6859781
Rhyl	05/04/2009	4	15:10:07.772	14.44.09.718	7301	Tern	Moderate	1	Flying	53.29656778	-3.6712667
Rhyl	05/04/2009	4	15:10:40.754	14.44.09.718	7798	Common Scoter	High	1	Sitting	53.31882861	-3.6709386
Rhyl	05/04/2009	4	15:10:41.286	14.44.09.718	7806	Common Scoter	High	2	Sitting	53.31909306	-3.6709372
Rhyl	05/04/2009	4	15:10:42.016	14.44.09.718	7817	Common Scoter	High	8	Sitting	53.3196225	-3.6709342
Rhyl	05/04/2009	4	15:11:03.252	14.44.09.718	8137	Common Scoter	High	14	Sitting	53.33400611	-3.6707322
Rhyl	05/04/2009	4	15:11:03.518	14.44.09.718	8141	Common Scoter	High	9	Sitting	53.33414306	-3.6707286
Rhyl	05/04/2009	4	15:11:03.785	14.44.09.718	8145	Common Scoter	High	3	Sitting	53.33441694	-3.6707217
Rhyl	05/04/2009	4	15:11:04.381	14.44.09.718	8150	Common Scoter	High	3	Sitting	53.33455389	-3.6707186
Rhyl	05/04/2009	4	15:11:04.381	14.44.09.718	8154	Common Scoter	High	2	Sitting	53.33482778	-3.6707125
Rhyl	05/04/2009	4	15:11:04.713	14.44.09.718	8159	Scoter	Moderate	1	Sitting	53.33496472	-3.67071

Rhyl	05/04/2009	4	15:11:09.225	14.44.09.718	8224	Common Scoter	High	5	Sitting	53.33796778	-3.670675
Rhyl	05/04/2009	4	15:11:09.225	14.44.09.718	8227	Common Scoter	High	11	Sitting	53.33810389	-3.6706742
Rhyl	05/04/2009	4	15:11:09.491	14.44.09.718	8231	Common Scoter	High	5	Sitting	53.33824028	-3.6706736
Rhyl	05/04/2009	4	15:11:09.823	14.44.09.718	8236	Common Scoter	High	8	Sitting	53.3385125	-3.6706731
Rhyl	05/04/2009	4	15:11:10.088	14.44.09.718	8240	Common Scoter	High	2	Swimming	53.33864861	-3.6706728
Rhyl	05/04/2009	4	15:11:10.552	14.44.09.718	8247	Common Scoter	High	4	Sitting	53.33905639	-3.6706722
Rhyl	05/04/2009	4	15:11:11.150	14.44.09.718	8256	Common Scoter	High	6	Sitting	53.33946417	-3.6706708
Rhyl	05/04/2009	4	15:11:16.326	14.44.09.718	8334	Common Scoter	High	6	Sitting	53.34286528	-3.6706558
Rhyl	05/04/2009	4	15:11:18.052	14.44.09.718	8348	Common Scoter	High	3	Sitting	53.34354833	-3.6706547
Rhyl	05/04/2009	4	15:11:18.052	14.44.09.718	8360	Common Scoter	High	10	Sitting	53.34409583	-3.6706511
Rhyl	05/04/2009	4	15:11:18.450	14.44.09.718	8366	Common Scoter	High	2	Sitting	53.34436972	-3.6706483
Rhyl	05/04/2009	4	15:11:18.716	14.44.09.718	8370	Common Scoter	High	5	Sitting	53.34450694	-3.6706464
Rhyl	05/04/2009	4	15:11:20.441	14.44.09.718	8396	Common Scoter	High	5	Sitting	53.34574306	-3.6706256
Rhyl	05/04/2009	4	15:11:21.569	14.44.09.718	8413	Common Scoter	High	3	Sitting	53.34656917	-3.670605
Rhyl	05/04/2009	4	15:11:21.768	14.44.09.718	8416	Common Scoter	High	6	Sitting	53.34670694	-3.6706019
Rhyl	05/04/2009	4	15:11:21.968	14.44.09.718	8419	Common Scoter	High	4	Sitting	53.34684472	-3.6705986
Rhyl	05/04/2009	4	15:11:22.167	14.44.09.718	8422	Common Scoter	High	2	Sitting	53.3469825	-3.6705956
Rhyl	05/04/2009	4	15:11:22.366	14.44.09.718	8425	Common Scoter	High	8	Sitting	53.34712056	-3.6705925
Rhyl	05/04/2009	4	15:11:22.499	14.44.09.718	8427	Common Scoter	High	1	Sitting	53.34712056	-3.6705925
Rhyl	05/04/2009	4	15:11:22.764	14.44.09.718	8431	Common Scoter	High	2	Sitting	53.34725833	-3.6705894
Rhyl	05/04/2009	4	15:11:27.343	14.44.09.718	8500	Common Scoter	High	4	Sitting	53.35043028	-3.6705211
Rhyl	05/04/2009	4	15:11:30.064	14.44.09.718	8541	Common Scoter	High	4	Sitting	53.35236028	-3.6704836
Rhyl	05/04/2009	4	15:11:30.395	14.44.09.718	8546	Common Scoter	High	2	Sitting	53.35263583	-3.6704781
Rhyl	05/04/2009	4	15:11:33.780	14.44.09.718	8597	Common Scoter	High	2	Sitting	53.35483889	-3.6704214
Rhyl	05/04/2009	4	15:11:37.895	14.44.09.718	8659	Auk	Low	1		53.35772583	-3.6703161
Rhyl	05/04/2009	4	15:12:11.874	14.44.09.718	9171	Auk	High	3	Sitting	53.380675	-3.6696825
Rhyl	05/04/2009	4	15:21:01.071	15.18.43.656	833	Common Scoter	High	10	Sitting	53.32367028	-3.6403022
Rhyl	05/04/2009	4	15:21:07.376	15.18.43.656	928	Common Scoter	High	2	Sitting	53.327965	-3.6400336
						Red throated					
Rhyl	05/04/2009	4	15:21:07.575	15.18.43.656	931	diver	Low	1	Sitting	53.32809806	-3.6400267
Rhyl	05/04/2009	4	15:21:18.658	15.18.43.656	1098	Common Scoter	High	9	Sitting	53.33540694	-3.6398058
Rhyl	05/04/2009	4	15:21:19.321	15.18.43.656	1108	Common Scoter	High	6	Swimming	53.33593778	-3.6397939
Rhyl	05/04/2009	4	15:21:21.379	15.18.43.656	1139	Common Scoter	High	3	Swimming	53.33726306	-3.6397761
Rhyl	05/04/2009	4	15:21:27.884	15.18.43.656	1237	Common Scoter	Moderate	6	Sitting	53.34151056	-3.6397272
Rhyl	05/04/2009	4	15:21:30.869	15.18.43.656	1282	Common Scoter	High	2	Sitting	53.34351111	-3.6396975
Rhyl	05/04/2009	4	15:21:31.931	15.18.43.656	1298	Common Scoter	High	2	Sitting	53.34417944	-3.6396847
Rhyl	05/04/2009	4	15:21:32.262	15.18.43.656	1303	Common Scoter	High	20	Sitting	53.34444694	-3.6396789
Rhyl	05/04/2009	4	15:21:32.728	15.18.43.656	1310	Common Scoter	High	23	Sitting	53.34484833	-3.6396703

Rhyl	05/04/2009	4	15:21:33.192	15.18.43.656	1317	Common Scoter	High	34	Swimming	53.34511611	-3.6396644
Rhyl	05/04/2009	4	15:21:33.723	15.18.43.656	1325	Common Scoter	High	4	Sitting	53.34538417	-3.6396592
Rhyl	05/04/2009	4	15:21:34.055	15.18.43.656	1330	Common Scoter	High	2	Sitting	53.34565222	-3.6396544
Rhyl	05/04/2009	4	15:21:35.846	15.18.43.656	1357	Common Scoter	High	2	Flying	53.34686	-3.6396342
Rhyl	05/04/2009	4	15:21:37.174	15.18.43.656	1377	Common Scoter	High	3	Sitting	53.34780111	-3.6396189
Rhyl	05/04/2009	4	15:21:55.757	15.18.43.656	1657	Common Scoter	High	2	Sitting	53.36020028	-3.6395536
Rhyl	05/04/2009	4	15:22:13.542	15.18.43.656	1925			1		53.37187778	-3.6393114
Rhyl	05/04/2009	4	15:22:17.126	15.18.43.656	1979	Auk	Moderate	1	Sitting	53.37425	-3.6392589
Rhyl	05/04/2009	4	15:22:23.431	15.18.43.656	2074	Auk	Moderate	1	Sitting	53.3783275	-3.6391631
Rhyl	05/04/2009	4	15:27:53.465	15.18.43.656	4825	Common Scoter	High	4	Sitting	53.33079556	-3.6252958
Rhyl	05/04/2009	4	15:27:53.598	15.18.43.656	4827	Common Scoter	High	2	Sitting	53.33067222	-3.6253008
Rhyl	05/04/2009	4	15:27:53.864	15.18.43.656	4831	Common Scoter	High	11	Sitting	53.33054889	-3.6253061
Rhyl	05/04/2009	4	15:27:53.930	15.18.43.656	4832	Common Scoter	High	6	Sitting	53.33042556	-3.6253111
Rhyl	05/04/2009	4	15:27:53.996	15.18.43.656	4833	Common Scoter	High	4	Sitting	53.33042556	-3.6253111
Rhyl	05/04/2009	4	15:27:54.129	15.18.43.656	4835	Common Scoter	High	2	Sitting	53.33030222	-3.6253161
Rhyl	05/04/2009	4	15:28:10.389	15.18.43.656	5080	Scoter	Moderate	1	Flying	53.32029361	-3.6257067
Rhyl	05/04/2009	4	15:31:18.866	15.18.43.656	6222	Common Scoter	High	6	Sitting	53.30778111	-3.6110569
Rhyl	05/04/2009	4	15:31:19.065	15.18.43.656	6224	Common Scoter	High	4	Sitting	53.30791528	-3.6110475
Rhyl	05/04/2009	4	15:31:19.595	15.18.43.656	6233	Common Scoter	High	6	Sitting	53.30831889	-3.6110192
Rhyl	05/04/2009	4	15:31:19.728	15.18.43.656	6235	Common Scoter	High	2	Sitting	53.30845333	-3.6110097
Rhyl	05/04/2009	4	15:31:20.126	15.18.43.656	6241	Common Scoter	High	2	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	4	15:31:20.193	15.18.43.656	6242	Common Scoter	High	9	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	4	15:31:20.259	15.18.43.656	6243	Velvet scoter	Moderate	1	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	4	15:31:20.259	15.18.43.656	6243	Common Scoter	High	1	Sitting	53.30872306	-3.6109906
Rhyl	05/04/2009	4	15:31:27.957	15.18.43.656	6359	Gull	Low	1	Sitting	53.31400028	-3.6106267
Rhyl	05/04/2009	4	15:31:33.134	15.18.43.656	6437	Lesser BB	Moderate	1	Sitting	53.317505	-3.6104939
Rhyl	05/04/2009	4	15:31:42.360	15.18.43.656	6576	Common Scoter	High	1	Sitting	53.32366306	-3.6102314
Rhyl	05/04/2009	4	15:31:42.492	15.18.43.656	6578	Common Scoter	High	5	Sitting	53.32366306	-3.6102314
Rhyl	05/04/2009	4	15:31:42.691	15.18.43.656	6581	Common Scoter	High	4	Sitting	53.32393056	-3.6102253
Rhyl	05/04/2009	4	15:31:45.279	15.18.43.656	6620	Auk	Moderate	1	Sitting	53.32553583	-3.6101844
						Red throated					
Rhyl	05/04/2009	4	15:31:51.982	15.18.43.656	6721	diver	Moderate	1	Sitting	53.33009389	-3.6100236
Rhyl	05/04/2009	4	15:31:52.381	15.18.43.656	6727	Auk	Moderate	1	Sitting	53.33036361	-3.6100133
Rhyl	05/04/2009	4	15:32:13.355	15.18.43.656	7043	Common Scoter	High	2	Sitting	53.34484278	-3.6094792
Rhyl	05/04/2009	4	15:32:13.484	15.18.43.656	7045	Common Scoter	High	2	Sitting	53.34484278	-3.6094792
Rhyl	05/04/2009	4	15:32:13.620	15.18.43.656	7047	Common Scoter	High	2	Sitting	53.34498139	-3.6094764
Rhyl	05/04/2009	4	15:32:13.816	15.18.43.656	7050	Common Scoter	High	1	Sitting	53.34512	-3.6094736
Rhyl	05/04/2009	4	15:32:14.546	15.18.43.656	7061	Common Scoter	High	1	Sitting	53.34553583	-3.6094661

Rhyl	05/04/2009	4	15:32:14.878	15.18.43.656	7066	Common Scoter	High	1	Sitting	53.34581278	-3.6094608
Rhyl	05/04/2009	4	15:32:15.210	15.18.43.656	7071	Common Scoter	High	10	Sitting	53.34608972	-3.609455
Rhyl	05/04/2009	4	15:32:24.369	15.18.43.656	7209	Auk	Moderate	1	Sitting	53.35234833	-3.6092986
Rhyl	05/04/2009	4	15:32:38.903	15.18.43.656	7428	Common Scoter	High	2	Sitting	53.36259333	-3.6090139
Rhyl	05/04/2009	4	15:33:26.220	15.18.43.656	8141	Auk	Moderate	1	Sitting	53.39517833	-3.6082692
Rhyl	05/04/2009	4	15:33:34.387	15.18.43.656	8264	Auk	Moderate	4	Sitting	53.40079083	-3.6081739
Rhyl	05/04/2009	4	15:33:42.414	15.18.43.656	8385	Auk	High	1	Sitting	53.4062825	-3.6080769
Rhyl	05/04/2009	4	15:38:41.058	15.18.43.656	10760	Common Scoter	High	4	Sitting	53.33379028	-3.5949614
Rhyl	05/04/2009	4	15:38:41.323	15.18.43.656	10764	Common Scoter	High	4	Sitting	53.33355139	-3.59497
Rhyl	05/04/2009	4	15:38:41.656	15.18.43.656	10769	Common Scoter	High	2	Sitting	53.33343194	-3.5949744
Rhyl	05/04/2009	4	15:38:42.053	15.18.43.656	10775	Common Scoter	High	3	Sitting	53.33319278	-3.5949836
Rhyl	05/04/2009	4	15:38:42.253	15.18.43.656	10778	Common Scoter	High	4	Sitting	53.33307333	-3.5949881
Rhyl	05/04/2009	4	15:38:42.385	15.18.43.656	10780	Common Scoter	High	3	Sitting	53.33295361	-3.5949925
Rhyl	05/04/2009	4	15:38:42.518	15.18.43.656	10782	Common Scoter	High	6	Sitting	53.33283417	-3.5949972
Rhyl	05/04/2009	4	15:38:42.652	15.18.43.656	10784	Common Scoter	High	2	Sitting	53.33283417	-3.5949972
Rhyl	05/04/2009	4	15:38:43.447	15.18.43.656	10796	Common Scoter	High	3	Sitting	53.33235528	-3.5950178
Rhyl	05/04/2009	4	15:38:45.637	15.18.43.656	10829	Common Scoter	High	1	Sitting	53.33103833	-3.5950822
Rhyl	05/04/2009	4	15:41:48.075	15.18.43.656	11965	Gull	High	1	Flying	53.30263917	-3.5805136
						Red throated					
Rhyl	05/04/2009	4	15:42:12.232	15.18.43.656	12329	diver	Low	1	Sitting	53.31913611	-3.5796022
Rhyl	05/04/2009	4	15:42:35.194	15.18.43.656	12675	Small Gull	High	1	Flying	53.33472667	-3.5793581
Rhyl	05/04/2009	4	15:42:35.725	15.18.43.656	12683	Large Gull	High	1	Sitting	53.33499806	-3.5793542
Rhyl	05/04/2009	4	15:42:35.925	15.18.43.656	12686	Gull	High	2	Sitting	53.33513389	-3.5793522
Rhyl	05/04/2009	4	15:44:10.035	15.18.43.656	14104	Diver	Low	1	Sitting	53.39846056	-3.5775675
Rhyl	05/04/2009	4	15:47:55.243	15.44.51.890	935	Common Scoter	High	2	Sitting	53.38479278	-3.5631181
Rhyl	05/04/2009	4	15:47:56.570	15.44.51.890	955	Common Scoter	High	6	Taking off	53.38406556	-3.5631489
Rhyl	05/04/2009	4	15:47:56.835	15.44.51.890	959	Common Scoter	High	3	Sitting	53.38382333	-3.5631589
Rhyl	05/04/2009	4	15:48:03.472	15.44.51.890	1059	Common Scoter	High	8	Sitting	53.37983306	-3.5632667
Rhyl	05/04/2009	4	15:48:05.464	15.44.51.890	1089	Common Scoter	High	8	Sitting	53.37862417	-3.5632764
Rhyl	05/04/2009	4	15:48:15.619	15.44.51.890	1242	Common Scoter	High	7	Flying	53.37256444	-3.5633747
Rhyl	05/04/2009	4	15:48:20.730	15.44.51.890	1319	Common Scoter	High	4	Taking off	53.36940917	-3.5634425
Rhyl	05/04/2009	4	15:48:20.995	15.44.51.890	1323	Common Scoter	High	2	Flying	53.36928806	-3.5634447
Rhyl	05/04/2009	4	15:48:25.110	15.44.51.890	1385	Common Scoter	High	4	Swimming	53.3667525	-3.5634964
Rhyl	05/04/2009	4	15:54:07.056	15.44.51.890	4972	Common Scoter	High	2	Sitting	53.38728167	-3.5477981
Rhyl	05/04/2009	4	16:00:37.904	15.44.51.890	8619	Herring Gull	High	1	Flying	53.31871528	-3.5350017
Rhyl	05/04/2009	4	16:03:10.793	15.44.51.890	9165	Large Gull	High	1	Flying	53.31815583	-3.5197253
Rhyl	05/04/2009	4	16:03:30.235	15.44.51.890	9458	Herring Gull	High	1	Flying	53.33129944	-3.5195111
Rhyl	05/04/2009	4	16:03:30.833	15.44.51.890	9467	Herring Gull	High	1	Flying	53.33170639	-3.5195011

Rhyl	05/04/2009	4	16:03:38.928	15.44.51.890	9589	Large Gull	High	1	Sitting	53.33714	-3.5193089
Rhyl	05/04/2009	4	16:03:39.196	15.44.51.890	9593	Large Gull	High	1	Sitting	53.33741222	-3.5192972
Rhyl	05/04/2009	4	16:03:39.527	15.44.51.890	9598	Large Gull	Moderate	2	Sitting	53.33754833	-3.5192917
Rhyl	05/04/2009	4	16:03:39.990	15.44.51.890	9605	Large Gull	High	1	Sitting	53.33795667	-3.5192742
Rhyl	05/04/2009	4	16:03:54.589	15.44.51.890	9825	Auk	High	4	Sitting	53.34779278	-3.5187672
Rhyl	05/04/2009	4	16:13:43.848	16.12.06.187	367	Large Gull	High	1	Flying	53.3326975	-3.4890508
Rhyl	05/04/2009	4	16:14:38.593	16.12.06.187	1192	Common Scoter	High	9	Sitting	53.36914667	-3.4874919
Rhyl	05/04/2009	4	16:14:39.190	16.12.06.187	1201	Common Scoter	High	11	Sitting	53.36954417	-3.4874831
Rhyl	05/04/2009	4	16:14:39.987	16.12.06.187	1213	Common Scoter	High	7	Sitting	53.37007444	-3.4874714
Rhyl	05/04/2009	4	16:14:40.319	16.12.06.187	1218	Common Scoter	High	1	Sitting	53.37033944	-3.4874658
Rhyl	05/04/2009	4	16:14:40.983	16.12.06.187	1228	Common Scoter	High	6	Sitting	53.37073556	-3.4874564
Rhyl	05/04/2009	4	16:14:41.380	16.12.06.187	1234	Common Scoter	High	5	Sitting	53.37100056	-3.4874503
Rhyl	05/04/2009	4	16:14:41.712	16.12.06.187	1239	Common Scoter	High	3	Sitting	53.37126556	-3.4874436
Rhyl	05/04/2009	4	16:14:41.977	16.12.06.187	1243	Common Scoter	High	1	Sitting	53.37126556	-3.4874436
Rhyl	05/04/2009	4	16:14:48.879	16.12.06.187	1347	Small Gull	High	1	Flying	53.37592472	-3.4873486
Rhyl	05/04/2009	4	16:24:19.026	16.12.06.187	6142	Gull	High	1	Flying	53.3609075	-3.4579381
Rhyl	05/04/2009	4	16:24:32.829	16.12.06.187	6350	Common Scoter	High	4	Sitting	53.37074806	-3.4576161
Rhyl	05/04/2009	4	16:24:34.223	16.12.06.187	6371	Common Scoter	High	5	Sitting	53.37176222	-3.4575642
Rhyl	05/04/2009	4	16:24:34.554	16.12.06.187	6376	Common Scoter	High	2	Sitting	53.37205194	-3.4575492
Rhyl	05/04/2009	4	16:29:28.522	16.12.06.187	8531	Greater BB	High	1	Flying	53.40455278	-3.4427528
Rhyl	05/04/2009	4	16:29:57.255	16.12.06.187	8964	Common Scoter	High	2	Sitting	53.38707028	-3.4426192
Rhyl	05/04/2009	4	16:30:08.336	16.12.06.187	9131	Common Scoter	High	1	Sitting	53.38036861	-3.4427661
Rhyl	05/04/2009	4	16:30:20.612	16.12.06.187	9316	Common Scoter	High	2	Sitting	53.37293611	-3.4428503
Rhyl	05/04/2009	4	16:30:25.457	16.12.06.187	9389	Common Gull	Moderate	1	Flying	53.37004389	-3.4428911
Rhyl	05/04/2009	4	16:33:43.338	16.12.06.187	10428	Large Gull	High	1	Flying	53.34142528	-3.4275539
Rhyl	05/04/2009	4	16:33:45.196	16.12.06.187	10456	Lesser BB	High	1	Sitting	53.34260917	-3.4275264
Rhyl	05/04/2009	4	16:34:03.711	16.12.06.187	10735	Large Gull	High	1	Flying	53.35494056	-3.4273569
Rhyl	05/04/2009	4	16:34:10.347	16.12.06.187	10835	Auk	High	1	Sitting	53.35936111	-3.4273078
Rhyl	05/04/2009	4	16:34:19.968	16.12.06.187	10980	Auk	High	1	Sitting	53.36577278	-3.4272372
Rhyl	05/04/2009	4	16:34:20.366	16.12.06.187	10986	Auk	High	1	Sitting	53.36604028	-3.427235
Rhyl	05/04/2009	4	16:34:33.041	16.12.06.187	11177	Common Scoter	High	3	Sitting	53.37451861	-3.4271064
Rhyl	05/04/2009	4	16:34:33.107	16.12.06.187	11178	Common Scoter	High	4	Sitting	53.37451861	-3.4271064
Rhyl	05/04/2009	4	16:34:33.177	16.12.06.187	11179	Common Scoter	High	5	Sitting	53.37465444	-3.4271039
Rhyl	05/04/2009	4	16:34:33.240	16.12.06.187	11180	Common Scoter	High	7	Swimming	53.37465444	-3.4271039
Rhyl	05/04/2009	4	16:34:33.306	16.12.06.187	11181	Common Scoter	High	6	Taking off	53.37465444	-3.4271039
Rhyl	05/04/2009	4	16:34:33.372	16.12.06.187	11182	Common Scoter	High	10	Swimming	53.37465444	-3.4271039
Rhyl	05/04/2009	4	16:34:33.440	16.12.06.187	11183	Common Scoter	High	6	Swimming	53.37479028	-3.4271014
Rhyl	05/04/2009	4	16:34:33.505	16.12.06.187	11184	Common Scoter	High	4	Swimming	53.37479028	-3.4271014

Rhyl	05/04/2009	4	16:34:33.720	16.12.06.187	11185	Common Scoter	High	6	Swimming	53.37492639	-3.4270989
Rhyl	05/04/2009	4	16:34:33.705	16.12.06.187	11187	Common Scoter	High	2	Swimming	53.37492639	-3.4270989
Rhyl	05/04/2009	4	16:34:33.903	16.12.06.187	11190	Common Scoter	High	3	Swimming	53.37506222	-3.4270961
Rhyl	05/04/2009	4	16:34:34.037	16.12.06.187	11192	Common Scoter	High	2	Flying	53.37519833	-3.4270933
Rhyl	05/04/2009	4	16:34:34.169	16.12.06.187	11194	Common Scoter	High	3	Flying	53.37533444	-3.4270906
Rhyl	05/04/2009	4	16:34:34.436	16.12.06.187	11198	Common Scoter	High	5	Flying	53.37547056	-3.4270875
Rhyl	05/04/2009	4	16:34:34.567	16.12.06.187	11200	Common Scoter	High	17	Flying	53.37560667	-3.4270844
Rhyl	05/04/2009	4	16:34:34.767	16.12.06.187	11203	Common Scoter	High	3	Flying	53.37574278	-3.4270814
Rhyl	05/04/2009	4	16:34:34.832	16.12.06.187	11204	Common Scoter	High	6	Flying	53.37574278	-3.4270814
Rhyl	05/04/2009	4	16:34:34.965	16.12.06.187	11206	Common Scoter	High	4	Swimming	53.37587889	-3.4270786
Rhyl	05/04/2009	4	16:34:35.031	16.12.06.187	11207	Common Scoter	High	3	Taking off	53.37587889	-3.4270786
Rhyl	05/04/2009	4	16:34:35.164	16.12.06.187	11209	Common Scoter	High	10	Taking off	53.376015	-3.4270756
Rhyl	05/04/2009	4	16:34:35.231	16.12.06.187	11210	Common Scoter	High	15	Flying	53.376015	-3.4270756
Rhyl	05/04/2009	4	16:34:35.364	16.12.06.187	11212	Common Scoter	High	8	Flying	53.376015	-3.4270756
Rhyl	05/04/2009	4	16:34:35.496	16.12.06.187	11214	Common Scoter	High	9	Flying	53.37615111	-3.4270728
Rhyl	05/04/2009	4	16:34:45.451	16.12.06.187	11364	Common Scoter	High	1	Swimming	53.38290611	-3.4270431
Rhyl	05/04/2009	4	16:34:45.516	16.12.06.187	11365	Common Scoter	High	3	Swimming	53.38290611	-3.4270431
Rhyl	05/04/2009	4	16:34:45.583	16.12.06.187	11366	Common Scoter	High	4	Swimming	53.38290611	-3.4270431
Rhyl	05/04/2009	4	16:34:45.650	16.12.06.187	11367	Common Scoter	High	11	Swimming	53.38304	-3.4270425
Rhyl	05/04/2009	4	16:34:45.782	16.12.06.187	11369	Common Scoter	High	19	Swimming	53.38304	-3.4270425
Rhyl	05/04/2009	4	16:34:45.917	16.12.06.187	11371	Common Scoter	High	7	Swimming	53.38317444	-3.4270419
Rhyl	05/04/2009	4	16:35:45.372	16.12.06.187	12267	Auk	High	2	Sitting	53.42454083	-3.4261317
Rhyl	05/04/2009	4	16:40:34.431	16.36.41.281	1228	Common Scoter	High	2	Sitting	53.38085944	-3.4128567
Rhyl	05/04/2009	4	16:40:37.285	16.36.41.281	1271	Common Scoter	High	4	Sitting	53.37898944	-3.4129033
Rhyl	05/04/2009	4	16:40:50.822	16.36.41.281	1475	Common Scoter	High	2	Flying	53.37067083	-3.4130406
Rhyl	05/04/2009	4	16:40:52.879	16.36.41.281	1506	Common Scoter	High	10	Flying	53.36930306	-3.4130658
Rhyl	05/04/2009	4	16:41:00.377	16.36.41.281	1619	Large Gull	High	2	Sitting	53.36470583	-3.4131531
Rhyl	05/04/2009	4	16:41:00.510	16.36.41.281	1621	Large Gull	High	1	Sitting	53.36458139	-3.413155
Rhyl	05/04/2009	4	16:41:00.579	16.36.41.281	1622	Large Gull	High	4	Sitting	53.36458139	-3.413155
Rhyl	05/04/2009	4	16:41:00.643	16.36.41.281	1623	Large Gull	High	3	Sitting	53.36458139	-3.413155
Rhyl	05/04/2009	4	16:41:00.709	16.36.41.281	1624	Large Gull	High	2	Sitting	53.36445694	-3.4131569
Rhyl	05/04/2009	4	16:41:06.151	16.36.41.281	1706	Large Gull	High	1	Flying	53.36110556	-3.4132306
Rhyl	05/04/2009	4	16:41:07.478	16.36.41.281	1726	Large Gull	High	1	Flying	53.36036444	-3.413255
Rhyl	05/04/2009	4	16:43:44.881	16.36.41.281	2256	Gull	High	1	Flying	53.34826194	-3.3977358
Rhyl	05/04/2009	4	16:43:44.948	16.36.41.281	2257	Gull	High	2	Sitting	53.34826194	-3.3977358
Rhyl	05/04/2009	4	16:43:45.014	16.36.41.281	2258	Gull	High	5	Sitting	53.34826194	-3.3977358
Rhyl	05/04/2009	4	16:43:45.347	16.36.41.281	2263	Gull	High	7	Sitting	53.34852806	-3.3977186
Rhyl	05/04/2009	4	16:44:19.056	16.36.41.281	2771	Common Scoter	Moderate	1	Sitting	53.37100639	-3.3970828

Rhyl	05/04/2009	4	16:44:27.152	16.36.41.281	2893	Common Scoter	High	1	Flying	53.37659778	-3.3970722
Rhyl	05/04/2009	4	16:49:16.078	16.36.41.281	4975	Auk	Moderate	2	Sitting	53.40446972	-3.3667567
Rhyl	05/04/2009	4	16:49:25.899	16.36.41.281	5123	Auk	High	2	Sitting	53.39807417	-3.3669119
Rhyl	05/04/2009	4	16:49:43.816	16.36.41.281	5393	Cormorant	High	1	Flying	53.38681028	-3.3669725
Rhyl	05/04/2009	4	16:49:59.875	16.36.41.281	5635	Auk	High	2	Sitting	53.37653806	-3.3672686
Rhyl	05/04/2009	4	16:50:16.863	16.36.41.281	5891	Herring Gull	High	1	Flying	53.3654825	-3.3675375
Rhyl	05/04/2009	4	16:50:17.128	16.36.41.281	5895	Herring Gull	High	1	Flying	53.36535194	-3.3675406
Rhyl	05/04/2009	4	16:50:17.327	16.36.41.281	5898	Herring Gull	High	1	Flying	53.36522139	-3.3675436
Rhyl	05/04/2009	4	16:50:18.922	16.36.41.281	5922	Small Gull	Moderate	1	Sitting	53.36417667	-3.3675636
Rhyl	05/04/2009	4	16:50:21.110	16.36.41.281	5955	Large Gull	High	1	Flying	53.36273861	-3.3675917
Rhyl	05/04/2009	4	16:52:59.176	16.36.41.281	6310	Gull	Low	5	Sitting	53.35097861	-3.3528389
Rhyl	05/04/2009	4	16:52:59.309	16.36.41.281	6312	Gull	Low	1	Sitting	53.35111333	-3.3528403
Rhyl	05/04/2009	4	16:53:08.467	16.36.41.281	6450	Gull	High	6	Sitting	53.35719444	-3.3529214
Rhyl	05/04/2009	4	16:53:08.600	16.36.41.281	6452	Gull	High	2	Sitting	53.35732972	-3.352925
Rhyl	05/04/2009	4	16:53:08.733	16.36.41.281	6454	Gull	High	1	Sitting	53.35746472	-3.3529289
Rhyl	05/04/2009	4	16:53:09.065	16.36.41.281	6459	Gull	High	1	Sitting	53.3576	-3.3529328
Rhyl	05/04/2009	4	16:53:13.046	16.36.41.281	6519	Herring Gull	High	1	Flying	53.36029861	-3.3530072
Rhyl	05/04/2009	4	16:53:56.046	16.36.41.281	7167	Common Scoter	High	2	Sitting	53.38982278	-3.3522589
Rhyl	05/04/2009	4	16:54:08.455	16.36.41.281	7354	Common Scoter	High	2	Sitting	53.39825111	-3.3518392
Rhyl	05/04/2009	4	16:54:16.153	16.36.41.281	7470	Gull	Low	1	Sitting	53.40335333	-3.3516583
Rhyl	05/04/2009	4	16:54:41.834	16.36.41.281	7857	Auk	High	2	Sitting	53.42049083	-3.3509717
Rhyl	05/04/2009	4	16:55:13.952	16.36.41.281	8341	Large Gull	High	1	Flying	53.44170889	-3.3507094
Rhyl	05/04/2009	4	16:58:52.073	16.36.41.281	9307	Fulmar	Moderate	3	Sitting	53.40531583	-3.3368614
Rhyl	05/04/2009	4	16:59:08.597	16.36.41.281	9556	Common Scoter	High	3	Sitting	53.3946925	-3.3371744
Rhyl	05/04/2009	4	16:59:10.255	16.36.41.281	9581	Common Scoter	High	4	Sitting	53.39353194	-3.3372183
Rhyl	05/04/2009	4	16:59:53.986	16.36.41.281	10240	Large Gull	High	1	Flying	53.36498528	-3.3386844
Rhyl	05/04/2009	4	16:59:55.049	16.36.41.281	10256	Gull	Moderate	1	Sitting	53.36433111	-3.3387211
Rhyl	05/04/2009	4	17:02:09.292	17.00.45.453	157	Small Gull	High	1	Sitting	53.35931194	-3.3232206
Rhyl	05/04/2009	4	17:02:09.358	17.00.45.453	158	Small Gull	High	3	Sitting	53.35931194	-3.3232206
Rhyl	05/04/2009	4	17:02:09.424	17.00.45.453	159	Small Gull	High	5	Sitting	53.35944944	-3.3232289
Rhyl	05/04/2009	4	17:02:19.113	17.00.45.453	305	Large Gull	High	1	Sitting	53.36604556	-3.3235403
Rhyl	05/04/2009	4	17:02:19.512	17.00.45.453	311	Large Gull	High	1	Sitting	53.36632111	-3.3235478
Rhyl	05/04/2009	4	17:02:29.465	17.00.45.453	461	Gull	High	1	Sitting	53.37318639	-3.3233839
Rhyl	05/04/2009	4	17:02:42.870	17.00.45.453	663	Gull	Moderate	1	Sitting	53.38223417	-3.322945
Rhyl	05/04/2009	4	17:02:54.350	17.00.45.453	836	Gull	High	1	Sitting	53.38984639	-3.3224617
Rhyl	05/04/2009	4	17:02:54.483	17.00.45.453	838	Gull	High	3	Sitting	53.38997944	-3.3224542
Rhyl	05/04/2009	4	17:02:55.214	17.00.45.453	849	Gull	High	1	Sitting	53.39051167	-3.3224289
Rhyl	05/04/2009	4	17:02:58.463	17.00.45.453	898	Diver	Moderate	1	Sitting	53.39263278	-3.3223778

Rhyl	05/04/2009	4	17:04:07.943	17.00.45.453	1945	Auk	High	2	Sitting	53.44008833	-3.3205669
Rhyl	05/04/2009	4	17:04:10.198	17.00.45.453	1979	Auk	Low	3	Sitting	53.44162694	-3.3205008
Rhyl	05/04/2009	4	17:04:14.445	17.00.45.453	2043	Gull	High	1	Flying	53.44471056	-3.3203264
Rhyl	05/04/2009	4	17:04:17.563	17.00.45.453	2090	Auk	Moderate	1	Sitting	53.44682139	-3.3201825
Rhyl	05/04/2009	4	17:04:18.028	17.00.45.453	2097	Auk	Low	3	Sitting	53.44724444	-3.3201544
Rhyl	05/04/2009	4	17:08:27.066	17.00.45.453	3665	Gull	Moderate	1	Sitting	53.39477556	-3.3080483
Rhyl	05/04/2009	4	17:08:29.455	17.00.45.453	3701	Small Gull	Low	3	Sitting	53.39323528	-3.3081058
Rhyl	05/04/2009	4	17:09:16.172	17.00.45.453	4405	Gull	High	5	Sitting	53.36263444	-3.3083122
Rhyl	05/04/2009	4	17:09:16.304	17.00.45.453	4407	Gull	High	57	Sitting	53.36250361	-3.3083131
Rhyl	05/04/2009	4	17:09:16.569	17.00.45.453	4411	Gull	High	2	Sitting	53.36237278	-3.3083142
Rhyl	05/04/2009	4	17:09:16.634	17.00.45.453	4412	Gull	High	1	Flying	53.36224194	-3.3083147
Rhyl	05/04/2009	4	17:09:16.701	17.00.45.453	4413	Gull	High	2	Sitting	53.36224194	-3.3083147
Rhyl	05/04/2009	4	17:11:34.723	17.00.45.453	4691	Herring Gull	High	1	Flying	53.36642806	-3.2930194
Rhyl	05/04/2009	4	17:11:59.474	17.00.45.453	5064	Gull	Moderate	1	Sitting	53.38338778	-3.2926708
Rhyl	05/04/2009	4	17:12:02.062	17.00.45.453	5103	Gull	Moderate	2	Flying	53.38503833	-3.2925794
Rhyl	05/04/2009	4	17:13:10.011	17.00.45.453	6127	Gull	High	1	Flying	53.43239917	-3.2905025
Rhyl	05/04/2009	4	17:13:18.438	17.00.45.453	6254	Auk	Low	1	Sitting	53.43826306	-3.2904181
Rhyl	05/04/2009	4	17:16:08.311	17.00.45.453	6944	Small Gull	Low	1	Sitting	53.45746639	-3.2753439
Rhyl	05/04/2009	4	17:16:13.023	17.00.45.453	7015	Gull	Moderate	1	Shearing	53.45432972	-3.2754528
Rhyl	05/04/2009	4	17:16:16.141	17.00.45.453	7062	Gull	Moderate	1	Sitting	53.4523675	-3.2755167
Rhyl	05/04/2009	4	17:16:16.672	17.00.45.453	7070	Gull	High	1	Flying	53.451975	-3.2755294
Rhyl	05/04/2009	4	17:16:33.792	17.00.45.453	7328	Herring Gull	Moderate	1	Flying	53.44078444	-3.2760111
Rhyl	05/04/2009	4	17:16:35.982	17.00.45.453	7361	Tern	Moderate	1	Flying	53.439495	-3.2760503
Rhyl	05/04/2009	4	17:16:50.382	17.00.45.453	7578	Small Gull	Low	1	Sitting	53.43024639	-3.2763764
Rhyl	05/04/2009	4	17:16:50.979	17.00.45.453	7587	Small Gull	Low	1	Sitting	53.42986306	-3.2763961
Rhyl	05/04/2009	4	17:17:33.912	17.00.45.453	8234	Gull	Moderate	1	Sitting	53.4025375	-3.2769911
Rhyl	05/04/2009	4	17:17:54.084	17.00.45.453	8538	Gull	Moderate	1	Sitting	53.389745	-3.2774225
Rhyl	05/04/2009	4	17:18:16.182	17.00.45.453	8871	Gull	Moderate	3	Sitting	53.37555167	-3.2780394
Rhyl	05/04/2009	4	17:18:17.908	17.00.45.453	8897	Gull	High	1	Sitting	53.37437361	-3.2780964
Rhyl	05/04/2009	4	17:18:18.904	17.00.45.453	8912	Gull	Moderate	1	Sitting	53.37372	-3.2781283
Rhyl	05/04/2009	4	17:18:18.970	17.00.45.453	8913	Gull	Moderate	1	Sitting	53.37372	-3.2781283
Rhyl	05/04/2009	4	17:18:21.691	17.00.45.453	8954	Gull	High	1	Flying	53.37188917	-3.2782097
Rhyl	05/04/2009	4	17:18:23.615	17.00.45.453	8983	Gull	Moderate	1	Sitting	53.37071139	-3.278265
Rhyl	05/04/2009	4	17:20:43.773	17.00.45.453	9202	Gull	High	2	Sitting	53.37159917	-3.2633092
Rhyl	05/04/2009	4	17:21:14.896	17.00.45.453	9671	Gull	Moderate	1	Flying	53.39325972	-3.2627506
Rhyl	05/04/2009	4	17:21:54.848	17.00.45.453	10273	Gull	Moderate	1	Sitting	53.42131556	-3.2616439
Rhyl	05/04/2009	4	17:22:20.662	17.00.45.453	10662	Auk	High	2	Sitting	53.43955194	-3.2606642
Rhyl	05/04/2009	4	17:22:31.612	17.00.45.453	10827	Gull	Low	1	Sitting	53.44729361	-3.2601317

Rhyl	05/04/2009	4	17:25:47.846	17.00.45.453	11714	Auk	High	1	Sitting	53.45745333	-3.2450064
Rhyl	05/04/2009	4	17:25:51.362	17.00.45.453	11767	Auk	High	3	Sitting	53.45514639	-3.2450842
Rhyl	05/04/2009	4	17:26:50.159	17.00.45.453	12653	Auk	High	3	Sitting	53.4174175	-3.2469583
Rhyl	05/04/2009	4	17:27:26.260	17.00.45.453	13197	Auk	High	1	Sitting	53.39391472	-3.2482336

Appendix 1: Aerial Survey Methodology

A Methodology for Surveying Waterbirds Using Video

Introduction

Aerial surveys have proved an invaluable tool for quantifying and monitoring waterbird populations at offshore wind farm sites. Existing techniques, utilising expert visual observers, have the advantage of being able to cover large areas economically. However, due to the relatively low altitude typically employed in these surveys (80m), it is not yet possible to survey the footprint of built wind farms using this technique in the UK. Furthermore, the technique is known to disturb several species, and this disturbance can complicate the analysis of the data, causing wide confidence intervals in population estimates, and hence low probability of detecting a change in the local population.

Video based surveying techniques have been developed in order to avoid these two key problems caused by low survey altitude. By replacing the visual observer with camera and telephoto lens, the surveys can be conducted from altitudes in excess of 3000ft. It has been found that more sensitive species such as Common Scoter are not disturbed by a light aircraft flying at 2000ft, so video methods are able to make non-invasive observations of waterbirds. The resulting raw data sets, comprising a series of digital video frames, each stamped with time and GPS coordinate, provide a permanent record of the survey area at a particular point in time and can be reviewed and audited offline at leisure. This eliminates the need for estimation of bird numbers and other sources of subjectivity that can increase confidence intervals.

Limitations of current aerial survey techniques

Dean *et al.* (2003) reviewed current aerial survey techniques, later described by Camphuysen *et al.* (2005), and identified a number of limitations with techniques used at the time:

1. Due to the low survey height, aerial survey coverage cannot be extended right up to the shoreline in many areas, especially in populated areas, or areas where the coastline consists of tall cliffs. Many areas close inshore are particularly important for grebes, greater scaup, common goldeneye and red-breasted merganser – significant numbers of these are likely to be missed if the aircraft is required to turn at, or before the shore is reached.
2. due to airspace restrictions, aircraft cannot enter some areas at some times, making it difficult to cover some areas in their entirety – significant numbers of birds may regularly aggregate in restricted areas;
3. the minimum cruising speed of 100 knots, combined with the low survey height, mean that observers have minimal time to scan a passing area of water (far less than in ship-based surveys) and that the bird encounter rate is much higher. This is likely to result in birds being missed, particularly inconspicuous, rare, or scarce species;
4. similarly, there is often insufficient time for observers to accurately identify species, resulting in significant numbers of sightings recorded at less specific taxonomic levels and possibly a degree of miss-identification, particularly for divers, grebes and scoter, and especially where mixed species flocks are encountered;
5. there is often insufficient time for observers to accurately record numbers, or to consistently record the age, sex, or behaviour of birds;

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6. it is difficult to collect additional data on the biological or hydrographic factors that may influence waterbird distributions.
 7. the short time available to observers reduces the precision of distance estimation (can't use as many distance bands as boat-based surveys) and is also likely to reduce the accuracy of distance estimation (more birds incorrectly assigned to distance bands);
 8. precision of locations assigned to observations for aerial surveys is less than for boat-based surveys due to greater speed and time recording errors;

Some of these could be addressed by improvements to the visual detection methods. However, many cannot be addressed, and it is with these shortcomings in mind that the video survey methods are described here.

Survey Specification

Although similar in intent, due to the limited field of view of a video camera, the video survey methodology differs somewhat from that of the visual method. Unlike visual observers, video systems vary significantly in their capabilities, and the survey specification must be adapted to the performance of the cameras that are being employed.

Digital video cameras are developing very rapidly at the time of writing, with significant increases in image resolution and quality likely in the next few months. For this reason, the survey specification set out here does not call for any particular camera or family of cameras. Rather, the survey parameters are expressed relative to camera properties, with minima and maxima imposed on some parameters for statistical reasons.

Transect pattern:

As with visual surveys, a series of line transects are employed. Unlike visual surveying, there is no need to use a detection function to estimate the numbers of seabirds missed at different distances from the line; each transect captures a strip of sea, in which all birds have an equal probability of detection. Sufficient video quality to ensure that birds are not missed is readily achieved, and the probability of detection within this strip is therefore assumed to be equal to one, the risk of this assumption being violated is thought to be minimal (A. Webb pers. comm.). Even very high resolution cameras result in narrower transects than can be achieved by visual observers

As with any transect sampling approach, some care must be taken to ensure that the survey is representative of the whole population. These considerations are identical with conventional surveys, and include random location of the transects, i.e. not defining the transects with respect to features that could potentially correlate with bird location (including wind farms), and surveying perpendicular to depth contours where possible.

Often it is necessary to curtail transects within a particular distance of the coast because of low-flying height restrictions or because of sea cliffs. In the absence of such restrictions, any transects that meet land video survey should continue fully onto the land to ensure that the sample includes the surf zone.

Coverage:

Coverage is the term used to describe the proportion of the survey area that is actually sampled. In the case of video surveys, this can readily be understood as the proportion of the survey area that falls within the field of view of the camera at some point during the survey.

In the case of conventional surveys, coverage does not have a simple definition. For 2km transect separation, every part of the survey area is nominally visible. However it is certainly not the case that every bird is detected; in practice, the vast majority of observed birds are seen within the first 200m of either side of the aircraft, and the number of birds observed per unit area drops rapidly as a function of distance from the aircraft. An approximate coverage can be calculated on a per species per survey basis by dividing the number of observed birds by the population estimated using distance sampling, which typically yields figures in the 15-30% range. However, even these figures do not provide a fair comparison with coverage as defined for video methods, because significant statistical manipulation is required to account for uncertainties introduced by estimation of flock size and model fitting.

The absolute lower bound on the coverage of a video survey should be 10%; this is effectively equivalent to conducting a conventional survey in which only the observation band closest to either side of the aircraft (100m) is recorded. This implies that for a given image width W , the transect separation should be a maximum of $10*W$, as shown in Figure 1. As an example, the 40m image width achievable with a high definition video camera results in a maximum transect separation of 400m.

Because birds are not displaced by the survey aircraft, video surveys can utilise narrow transect separations that are not available with visual surveys. This enables coverage to be increased up to 100% if required for very high accuracy surveys, and even allows multiple pass surveys. Ultimately, the objective of a survey is to estimate the population of given species at a given time and location with sufficient confidence that a significant change in population can be detected. The confidence intervals associated with any population estimates are driven not only by the survey parameters, but also by the distribution of birds themselves; surveys for less numerous species will tend to yield population estimates with larger confidence intervals than surveys for more numerous species. The coverage rate should be adapted so that the population estimates for all species of interest have sufficiently narrow confidence intervals to provide a high certainty of detecting any change over time. The target coefficient of variance for a population estimate should be 0.3 or better.

Note that for video surveys it is not just the aircraft but also the camera that determines the transect. By changing the orientation of the camera it is possible to change the transect that is being sampled. Similarly, multiple fixed cameras with different orientations can sample different transects simultaneously from the same aircraft.

Altitude:

Survey altitude is a trade-off between image quality and the need to avoid disturbing birds or having to break off a transect early to avoid a collision hazard. Lower altitude results in better image quality due to reduced haze and increased available light, which in turn gives lower noise and/or better depth of field.

It has been found empirically that when flying at 2000ft, even the more sensitive species, such as Common Scoter, do not visibly react to the aircraft. At lower altitudes some birds begin to alter behaviour, with flushing occurring at around 700ft. In order to provide a comfortable margin of safety, an absolute lower limit of 900ft is placed on survey altitude.

Speed:

An important feature of video data, as opposed to still images, is that multiple observations of each bird are made over a short time window. These multiple observations provide insight into bird behaviour, and enable real birds to be distinguished from short lived patterns in the water which momentarily appear similar to birds. In particular, multiple observations enable estimation of the direction and height of flying birds.

Around half a second of video is sufficient to estimate these basic features. The duration that each bird spends within frame is determined by the velocity of the aircraft and the depth of the video image. To ensure a sufficient number of independent frames are captured, each bird should appear in a minimum of ten frames, over a time period of no less than 0.4 seconds. This is equivalent to flying at a velocity of 180 kph, with a 20m deep image (1000 pixels at 20mm per pixel) and a frame rate of 24 frames per second. Increasing the frame rate above 24 fps provides only a minor increase in information as it does not extend the period each bird is in frame for.

Weather:

As with conventional surveys, video surveys are dependent to an extent on suitable weather conditions. The greatest single factor affecting the video methodology is cloud-base; in order to meet the 900ft minimum altitude criterion, the cloud base needs to be at 1000ft or more.

Visibility requirements are typically comparable to those of a conventional survey; although the cameras sometimes look through a greater thickness of air than visual observers, vertical visibility is often better than horizontal visibility on the same day, and the ability to slow down video and adjust contrast mitigates the reduced clarity of the image.

The video technique is relatively robust to sea state and wind speed. The greater altitude during video surveys results in much steeper observation angles, which in turn mean that even in high seas, birds (or mammals) are unlikely to be hidden in the troughs of waves. In visual surveys, where peripheral vision is required to pick up on birds in the first instance, white caps and spume can cause serious visual distractions resulting in missed birds. In the case of video, however, the ability to slow down and replay the video means that while such features increase the data processing effort, they do not necessarily affect the quality of the output. Maximum sea states and wind speeds for the technique are not known; however, there is a need to keep these parameters close to those experienced during visual surveys so that the two data sets remain as compatible as possible. For this reason, the maximum recommended wind speed is 30km/h.

Video Specification

The video effectively takes the place of a human observer as the sampling tool. The basic requirements of the video system are that the individual images are of sufficient resolution and quality to enable detection and identification of birds, and that each frame should be associated with a location. Video technology is developing rapidly with promising new systems for aerial surveying likely to come onto the market over the next eighteen months. This specification does not therefore demand a particular video system. However, it should be noted that systems with lower resolution than the 1920 by 1080 pixels of current high definition video systems are unlikely to prove economic, and generally speaking, the higher the resolution the more economic the surveys become.

Image size:

The fundamental property of the system that determines the quality of the data is the size on the ground of an individual pixel. It has been found that a pixel size of 20mm (i.e. each side of a square pixel corresponds to a 20mm distance in the imaged scene) gives sufficient detail to identify birds to the required level of accuracy. It is possible that a decrease in size to, say, 10mm or less may provide sufficient detail to distinguish Guillemots and Razorbills, for example, but the benefits are considered to be outweighed by the significantly increased cost with current technology. Ultimately, the pixel distance used should meet the requirements of the survey.

The pixel size combined with the camera resolution generate an image width, i.e. an image 2000 pixels wide, with each pixel 20mm across, will generate an image 40m wide. The width and height of the image are fundamental parameters of the technique as they determine the maximum airspeed and transect separation, which determine the time that the plane must fly for and therefore cost of the survey.

Image size itself is determined by two further properties of the system, the focal length of the camera lens and the altitude of the aircraft. By varying these two together, it is possible to maintain a fixed image width while varying altitude, e.g. to avoid low cloud. This can be controlled in two ways. First, the zoom can be manually adjusted to keep the apparent speed of the image constant (i.e. the time it takes an object to cross from the top to the bottom of the image is held constant). This method enables complete freedom of altitude, but can result in some inaccuracies, either reducing efficiency or quality. The second approach is to have two or more fixed lenses, one for each of a set of pre-determined altitudes. The appropriate lens is installed for the chosen altitude and lenses are swapped when the altitude is changed. This results in more precise image scaling, but a significantly less flexible system. A happy medium can be obtained if a zoom lens can be identified that has useful lengths at both extremes of its range; this gives two fixed lengths which can be switched without swapping lenses and also provides the opportunity to be more flexible if required. Unfortunately lenses with an appropriate range of focal lengths are rarely available for suitable cameras, and some modification is typically required to build a working system.

Note that the exact focal length of lens required is a function of the actual physical dimension of the sensor array. As this varies from camera to camera, even for those with the same resolution, a specific focal length cannot be made part of this specification. However, an example is provided below for a particular camera system that has been shown to work well for survey applications.

Image quality:

It has been found empirically that the errors that are most damaging in terms of the ability to recognise birds are poor focus and overexposure.

Focus should typically be constant as long as altitude is held constant, and it is therefore beneficial to modify a system so that focus can be mechanically locked once the correct position is found. If this is not possible, the best approach is to reset the focus during the run-up to the beginning of each transect. This is particularly difficult when the sea is calm and may necessitate adding a period of 'dead time' to the beginning of each transect, with an associated loss of efficiency.

Exposure typically occurs when exposure is set for the sea rather than for birds. Many species of birds will appear significantly brighter than any features on the water, particularly on a clear

day. Setting exposure becomes easier with experience, but as a general guide it should be set as dark as possible to while still being able to resolve features of the sea.

A waveform monitor is a useful tool for ensuring that birds are not overexposed. This plots each line of the image as a line on a graph, so that small bright objects appear as sharp peaks; as long as these peaks are less than the maximum value that the camera can provide, the image will not be overexposed.

Exposure is controlled through a combination of iris and shutter speed. Fast shutter speeds are generally necessary to stop the rapid motion of the image through the frame. $1/500^{\text{th}}$ of a second should be regarded as a minimum when flying at 185 km/hr, with $1/1000^{\text{th}}$ of a second preferable. If airspeed is increased significantly, then $1/1000^{\text{th}}$ should be regarded as the minimum. Iris determines focal depth and therefore the altitude at which birds lose focus. Preferably, the iris should be as small as possible to maximise focal depth, i.e. the image should again be set as dark as allowable. However, loss of focus with altitude has not been found to be a significant problem to date, even when using a relatively wide iris.

Finally, electronic gain can be used to boost the contrast of an underexposed image; this introduces noise, however survey video is typically more tolerant of noise than, say, a television production would be. The level of noise relative to electronic gain will inevitably vary from camera to camera and from day to day, however, 3dB of gain typically appears to be acceptable.

The best approach to exposure on a low light day is therefore as follows: set shutter speed to $1/1000^{\text{th}}$ of a second and gain to 0 dB initially, and widen iris until a dark, but acceptable image is obtained. If the image remains too dark at full iris, reduce shutter speed to $1/500^{\text{th}}$ of a second if airspeed allows, and add 3dB of gain if further brightening is required. If this image is still too dark after these steps have been followed, the survey should be terminated.

On a bright day, gain should be set to 0 dB, shutter speed to $1/1000^{\text{th}}$ of a second and then the iris reduced until the image is suitably dark. If the image remains too bright at full iris, shutter speed should be increased, if the camera is capable. In the unlikely event that the image is still too bright, neutral density filters should be installed on the lens.

Due to the relatively long focal length lenses required to get the necessary detail and the need to fix the camera to the airframe, camera vibration can cause a significant deterioration in image quality. In all cases, some kind of stabilising mount will be required, with active gyroscopically stabilised mounts preferred for higher altitudes. Ultimately, the requirement for the mount will be determined by the aircraft and altitude; the mount should eliminate detectable vibration induced blur in the still frames.

Camera orientation:

Recognition is facilitated if the camera does not look directly downward, so that the profile of the bird can be discerned. However, relatively steep angles have the advantages of minimising distance between the camera and the target (improving image quality), of ensuring that the birds are not obscured in wave troughs, of minimising glare, and of enabling the camera to see submerged details.

The direction that a camera points is relatively unimportant, provided that the direction is known, so that the position of each image can be calculated with sufficient accuracy. Camera orientation should therefore be recorded to at least ± 0.5 degree accuracy.

If multiple cameras are used in a single aircraft, orientations should be selected so that each camera is separated from the others by a sufficient distance to prevent birds observed by one camera entering into the field of view of another. 100m centre-to-centre separation is sufficient. This arrangement results in a data set that is simpler to work with and provides a more even coverage of the survey area.

The final requirement is to select an appropriate roll for each camera. Roll should be chosen so that the image appears to travel directly from the top to the bottom of the screen, without any diagonal element. Forward pointing cameras should have no roll, so that the horizon is parallel with the top of the frame, while sideways pointing cameras should be positioned so that the horizon is parallel with the side of the frame. Intermediate positions will require an intermediate roll.

Sampling:

In order for the data to be statistically tractable, the centre line of the video is treated as the sampling point. The timecode and GPS location associated with each bird should be those of the frame in which it is closest to the midline. Maximising the useful data according to this criterion is the reason for adjusting the role of each camera, as described in the previous section.

Data recording:

The data recorder should be capable of recording a full days surveying without the need to break off the survey. The two viable options at this point in time are digital tape systems, and multiple hard drive server systems. Both have pros and cons; tape recorders are expensive, cause some deterioration of the data and the tapes must be manually changed four or more times per survey, however they minimise handling of the data as the survey tapes themselves can be readily used for review and archive. Hard drive systems are bulky and usually require data to be converted into a secondary format for transport and archival, but can record uncompressed and do not necessarily require any manual intervention during the survey.

Example system

Hardware:

Camera: Sony F950 mounted in a Cineflex gyroscopically stabilised mount.

Aircraft: Diamond DA42 MPP twin engine plane with nose pod to carry camera.

Data recording: Sony S280 HDCAM format tape recorder.

Camera set up:

Lens: focal length set to 150mm, to provide an approximately 40m image when flying at 2000ft. Preferably locked.

Orientation: pointing straight forwards and down at an angle of 35 degrees from vertical. Preferably locked.

Exposure: shutter speed set to 1/1000th of a second, and iris adjusted to give darkest acceptable image. Waveform monitor used to inspect exposure during survey.

Survey Specification:

Transects: straight and parallel, separated by a centre to centre distance of 400m to give 10% coverage. Transects staggered by 300m, depending on direction of flight, to account for the fact that the camera looks at an area 300m ahead of the plane. Each transect to have a further 500m 'dead space' at the beginning to provide approximately 10 seconds focus adjustment time (unless that transect begins on land). Other than altitude and separation, survey design should follow the general guidance provided by Camphuysen *et al.* (2005).

Airspeed and altitude: 185 kph at 2000ft.

Data Review

The video data is reviewed off-line at any time after the survey. The video is played back at a speed that will allow the observer to comfortably detect every bird. Preferably, the playback system should provide the user with a reasonable degree of control over playback speed. Under calm flat conditions with favourable light, it is often possible to detect birds as the video is played back in real time.

It is not necessary to be able to identify birds to species level at the playback speed, provided that forward and reverse slow motion and pause functions are available on the player. These enable the observer to carefully assess each bird.

The simplest way to record the data is to list each observation in a spreadsheet, with date and timecode at which the bird crosses the midline of the image, species, any notes on behaviour, camera (if using a multi-camera system) observer identity and review date. Timecodes and camera identities can then be converted into coordinates using the plane GPS location and known camera geometry. Slightly greater accuracy of location can be achieved if the precise location of the bird in the frame is recorded, but the improvement is typically only of the order of a few metres, and is unlikely to repay the effort in most applications.

Data review can be a physically and mentally demanding task. Unlike visual surveys, the observers eyes are held at short focus and are relatively stationary while reviewing the data. Reviewing sessions should therefore be broken into short chunks that are not sufficiently long to induce discomfort, and these should be separated by breaks of a sufficiently long period to rest the eyes. Suitable stints and breaks are likely to vary with individuals and data, however 30 minute stints with 5 minute breaks may prove suitable as a target. During breaks, the observer should preferably focus on objects at some distance to reduce stress, particularly on the eyes.

To ensure quality, a proportion of the data should be reviewed by two independent observers that are highly experienced in detection and identification of seabirds from the air. Neither observer should be aware of the other's findings, nor the sample to be checked should consist of randomly selected transects.

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