

The release and subsequent sighting of colour-ringed Herring Gulls *Larus argentatus* and Lesser Black-backed Gulls *Larus fuscus* following rehabilitation at the Secret World Wildlife Rescue Centre, East Huntspill, Highbridge, Somerset TA9 3PZ.

**An interim report
by
Mike Bailey.**



Juvenile Lesser Black-backed Gull S:198 released at Apex Park, Burnham-on-Sea on 27th August 2012 and photographed at Quarteira Beach, Faro, Portugal on 19th September 2012. (Michael Davies)

Introduction:

The project began following discussions about the possibility of ringing rehabilitated birds as a means of monitoring their survival after release. Because the reporting rate for the metal rings used in general ringing by the British Trust for Ornithology (BTO) is quite low we investigated setting up a colour ringing project. The large gulls were thought to be the best candidates for the study as the number released (around 100 per year) would give a significantly large sample. Also, through our contact with Peter Rock who is carrying out a large, long-term study of urban gulls, we were aware that the sighting / reporting rate for colour ringed gulls is high.

Licences to ring rehabilitated birds and use colour rings within the UK were obtained from the BTO. The codes allocated were BTO metal ring on the right leg and the colour ring below the tarsus on left leg. The ring to be red with white characters using code S:001 to S:999 (except the colon to be 3 dots). These were made by a firm based in France called Interrex. An example is shown here on the right of a juvenile Lesser Black-backed Gull sighted in Portugal.



The separation between juvenile Herring and Lesser Black-backed Gulls was known to be rather difficult and Ed Drewitt kindly prepared a Powerpoint presentation to show the main characteristics that can be used to tell them apart. The clearest difference between the two species can be seen in the colour and any patterning of the inner primaries. Fig 1. In Herring Gull these are light grey and mottled and in Lesser Black-backed Gull they are a plain darker, mid-grey. However, this description represents either ends of a spectrum and some birds were noted with intermediate characters having darkish grey inner primaries but with some mottling. In practice the darkness of the grey proved to be the most important feature.



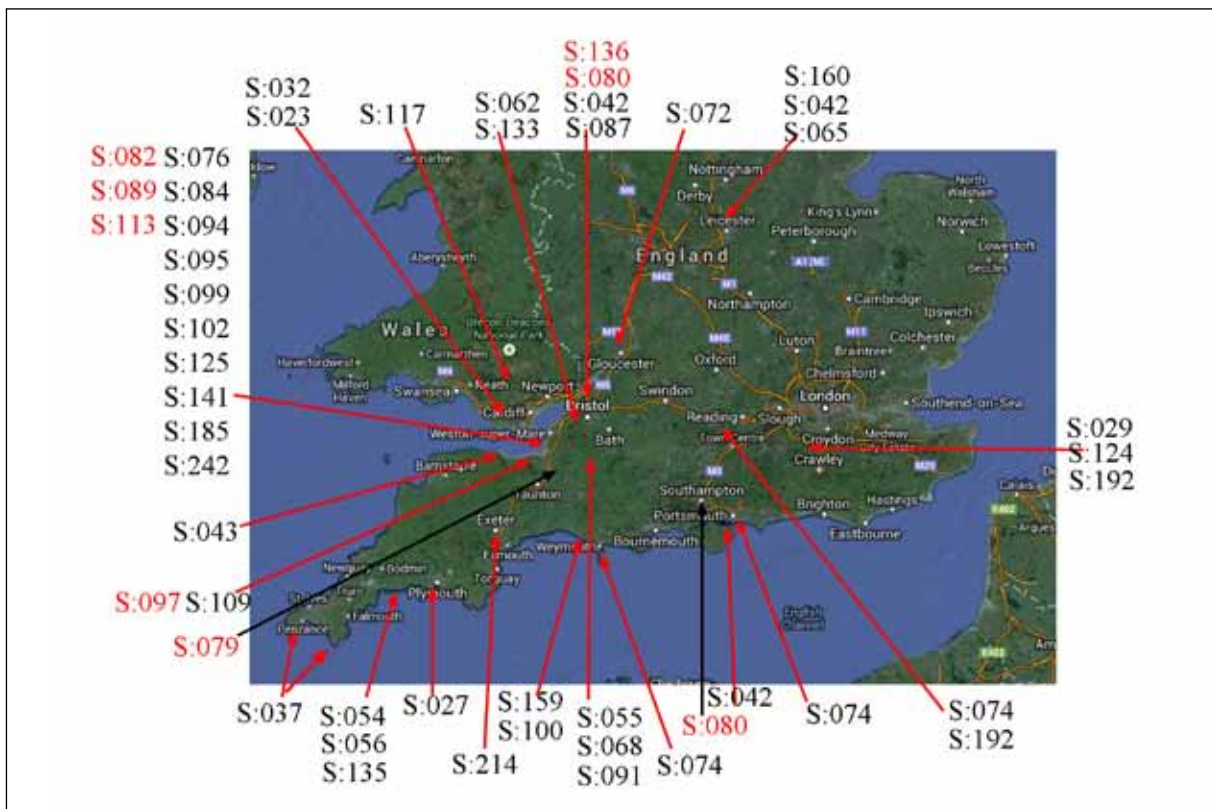
Above: Fig.1. Identification of juvenile Herring and Lesser Black-backed Gulls based on the colour and patterning of the inner primaries. In Herring Gull (on the left) these are light grey and mottled and in Lesser Black-backed Gull (right) they are a darker, mid-grey. (Mike Bailey)

The picture below was sent with a letter explaining the project to thank people that had reported sightings of the birds.



Above: One of the large pens where the gulls were cared for until ready for release.

(Mike Bailey)



Above: Map 1. Southern England and Wales indicating where the gulls have been sighted.

Key: Herring Gull - black code & red arrow. Lesser Black-backed Gull - red code & black arrow.

Results - Movement:



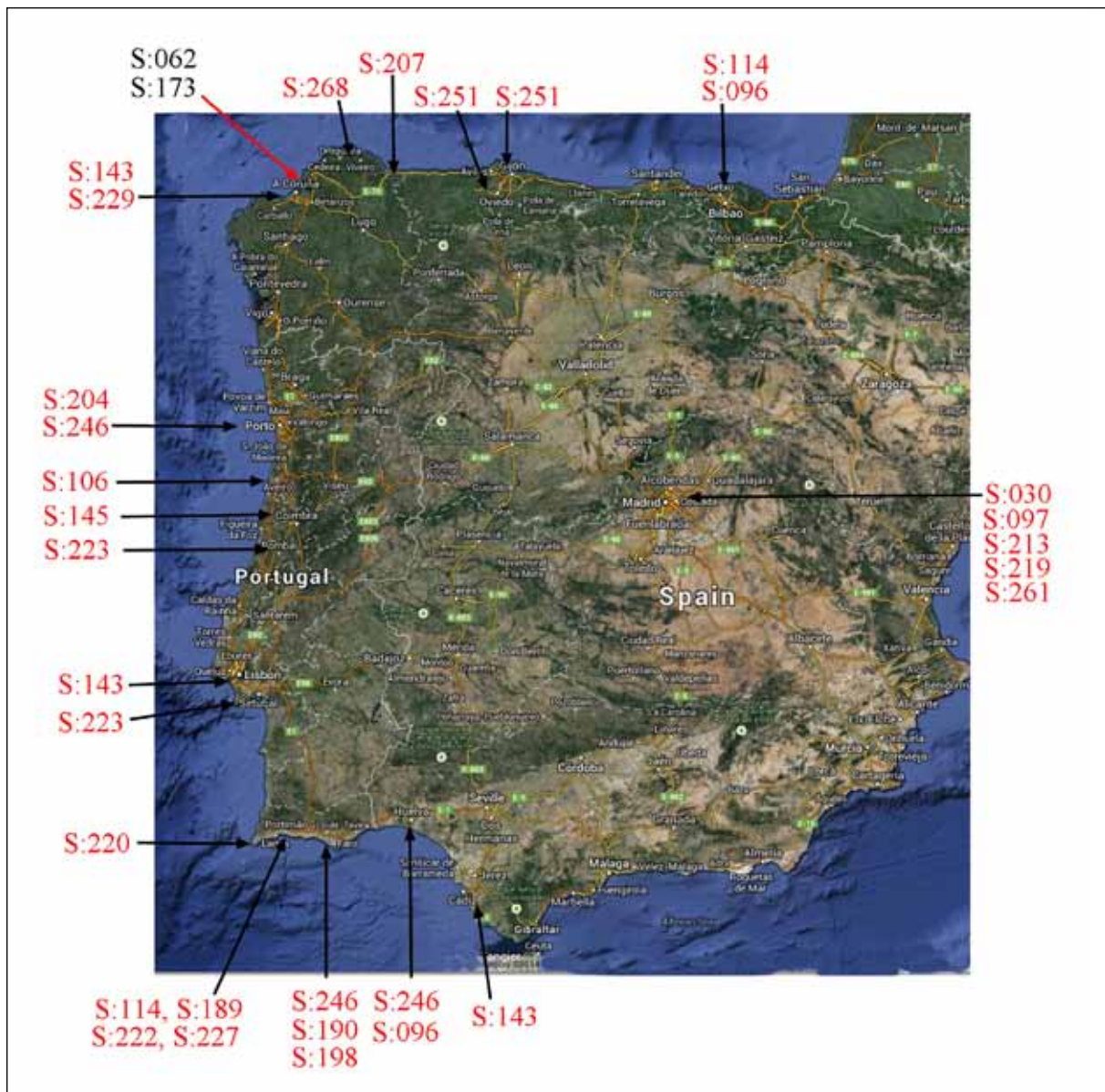
Above: Map 2. Western France
Key: Herring Gull - black code & red arrow.
Lesser Black-backed Gull - red code & black arrow.

Maps 1, 2 and 3 respectively show the locations in the southern counties of England and Wales, the western coast of France and the Iberian Peninsular where the gulls have been sighted. For Herring Gulls the position is indicated with a red arrow and the code in black. This has been reversed for the Lesser Black-backed Gulls (black arrow and red code). For clarity the dates when the birds were seen, some of which are multiple reports for an individual bird from a particular site, have been omitted from the maps but can be found in the list of sightings on pages 10-15.

Over 2,000 Herring and Lesser Black-backed Gulls are ringed every year in the UK and the results from the recoveries have been published by the BTO in a massive tome - *The Migration Atlas - movements of the birds of Britain and Ireland*, Edited by C. Wernham et al, 2002. In summary, Herring Gulls do disperse but mainly remain within the UK although small numbers of juveniles from southern England are more likely to go the French and Spanish coasts. Immature and some adult Lesser Black-backed Gulls migrate in the winter to S.W.Europe and N.W.Africa. Thus, although based on a very much smaller sample size, the recovery pattern seen for the Secret World rehabilitated birds mirrors the dispersal pattern displayed by those that are reared naturally.



Above: Two juvenile Herring Gulls sighted on the N.W. coast of Spain.
S:062 (left) was photographed at Play de Alba by Xabi Varela on 27 February 2012. This bird was later seen at Chew Vally Lake in May and July 2013.
S:173 (right) was photographed at Meiras Beach, Valdovino, by Jose Vidal on 23 October 2012.



Above: Map 3. Portugal and Spain - indicating where the gulls had been sighted.

Key: Lesser Black-backed Gull - red code with black arrow.

Key: Herring Gull - black code with red arrow.

There was some initial concern that the two Herring Gulls S:062 and S:173 that went to N.W Spain were dispersing in a direction and distance normally expected of Lesser Black-backed Gulls and had, therefore, been incorrectly identified. In fact a note had been made against S:173 when ringed that it was a dark bird. Fortunately the observers were able to photograph the birds and the consensus was that the original identifications should stand. Hybridisation between these two species does occur and maybe some effect of this is evident in S:173.

Richard Thompson in a twelve year study at the Mallydams Wood wildlife centre found that young rehabilitated Herring Gulls would disperse further afield than their naturally reared counterparts. The mean overall distance travelled by rehabilitated birds being 74.3 km compared with non-rehabilitated from the South West of 54.8 km, and non-rehabilitated from the South East 59.0 km (Thompson 2013). This presumably reflects the ‘orphan’ and ‘homeless’ status of rehab. juveniles upon release.

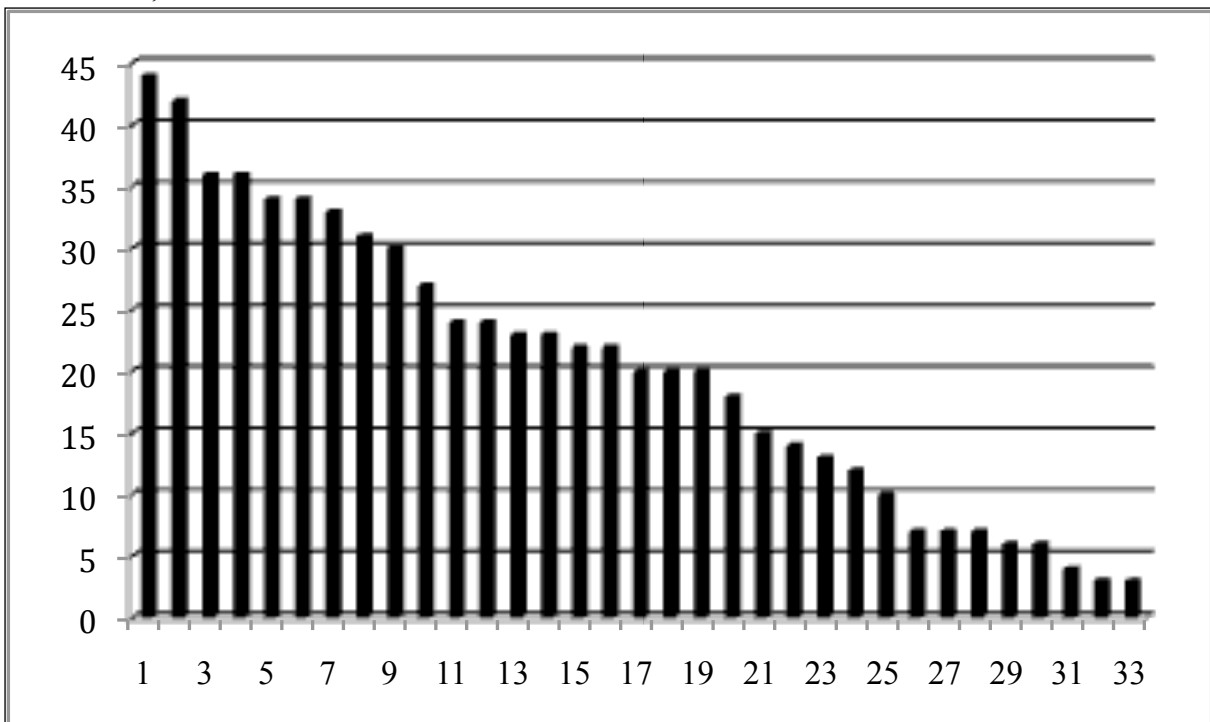
Results - Survival

The number of Herring and Lesser Black-backed Gulls ringed from 2011 to 2013 and the number subsequently reported from each year's cohort is given in Table 1. Please note that the figures may represent multiple sightings, for example a Herring Gull ringed in 2011 and seen in 2011, 2012 and 2013, would be counted once in each year.

Herring Gulls	2011	2012	2013
Ringed in year	81	65	38
Sighted in 2011	8	X	X
Sighted in 2012	10	4	X
Sighted in 2013	17	6	1
Sighted in Jan-Mar 2014	4	1	1
Lesser B-b Gulls	2011	2012	2013
Ringed in year	17	20	23
Sighted in 2011	8	X	X
Sighted in 2012	5	7	X
Sighted in 2013	3	5	8
Sighted in Jan-Mar 2014	0	0	6

Above: Table 1. Number of gulls sighted from each year's cohort.

From the first release in July 2011 sightings of the gulls have been steadily coming in at approximately the rate of one per week. Observers have either found the Secret World colour scheme and contacted me directly via the dedicated website - www.cr-birding.org, or completed a form on the BTO website which is then forwarded via the large gull colour-ringing scheme coordinator, Peter Rock.



Above: Graph 1. The no. of Herring Gulls known to have survived (by months) since release.

The Secret World Herring Gulls.

The typical lifespan for Herring Gulls is 12 years and with a maximum recorded age of 30 years 11 months 15 days (BirdFacts, BTO website) Clearly this project has not been running for sufficient time to allow us to make any comparison with these figures! We can, however, look at the reporting rates for Secret World birds ringed between 2011 and 2013 and discuss these in the context of data from some other sources.

Graph 1 plots the number of Herring Gulls that are known to have survived for a specific number of months since release. The reporting rate so far for bird seen at least once is:

Secret World	Colour ringed	reported	%
Herring Gull	184	44	24.4

Thompson (2013) published the recovery rates for colour-ringed, rehabilitated Herring Gulls at the Mallydams Wood wildlife centre and for non-rehabilitated (wild) birds from a colony in S.E England and the Severn Estuary Gull Group. The number of BTO ringed, non-rehabilitated Herring Gulls by 2012 was 343,206 with total recoveries of 25,912 (Dadam et al 2013) giving a recovery rate of 7.5% . However this lower figures is far more to do with the difference in the reporting rate where only a BTO metal ring has been used. The extent to which the BTO recoveries also includes colour ringed birds is not known. For comparison the Secret World recovery rate is included in this table as follows:

Type	Study centre	study period	% recovery
rehabilitated	Secret World	3 years	24.4
rehabilitated	Mallydams Wood	12 years	30.7
wild	Colony in S.E England	4 years	22.9
wild	Severn Estuary Gull Group	30 years	73.7
wild	BTO (mainly metal rings)	75 + years	7.5

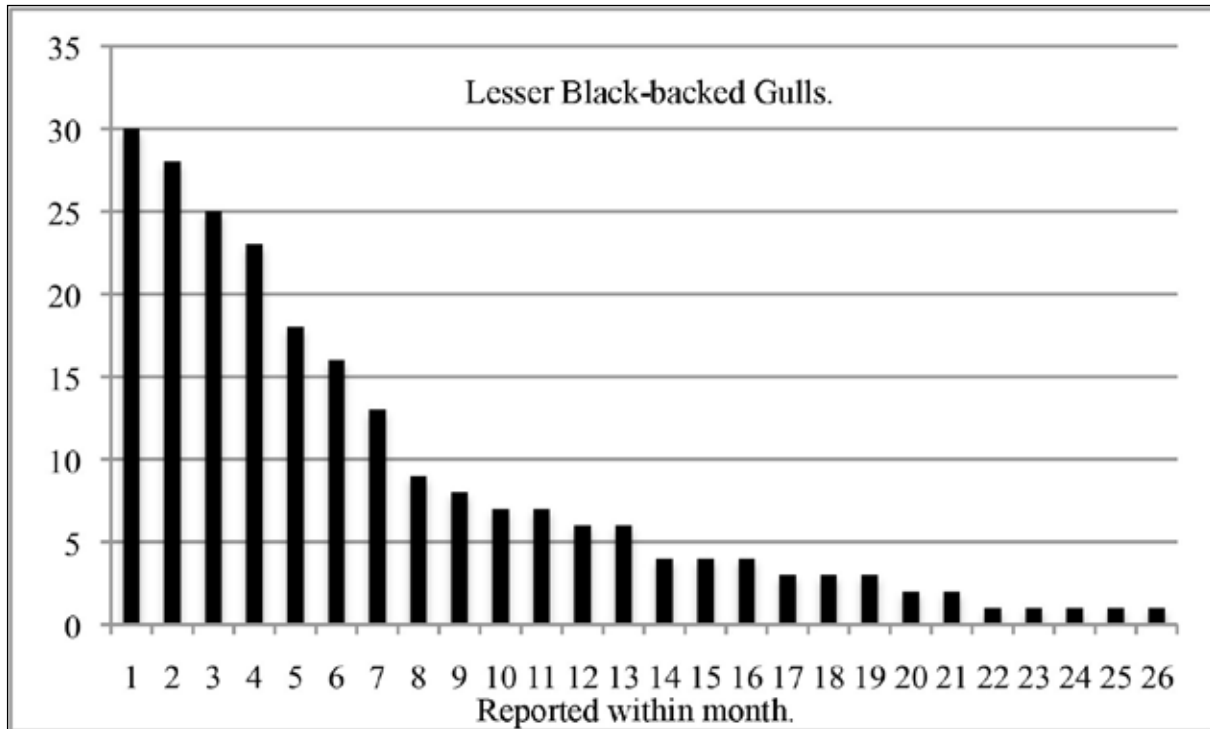
From the table above the recovery rate for Secret World birds are comparable with the 4 year study of wild birds in the colony in S.E.England. Also, given that sightings for birds not previously reported are still coming in, I anticipate that the Secret World overall recovery rate will be comparable to the 12 year study at the Mallydams Wood wildlife centre.

The very high recovery rate of 73.7% by the Severn Estuary Gull Group is due to an enormous effort to re-sight and identify individually ringed birds with many hours of fieldwork on landfill sites and at the urban breeding colonies. It has to be admitted that we have been somewhat tardy in this respect!

Thus the variables such as the length of the study period, observer effort and use of colour rings versus just metal rings, make it difficult to gain a direct comparison with the data from other sources. However, all the indications are that the rehabilitated Herring Gulls released by Secret World are surviving well and that their survival is certainly on a par with other studies.

The Secret World Lesser Black-backed Gulls.

The typical lifespan for Lesser Black-backed Gulls is 15 years with a maximum recorded age of 34 years 10 months 11 days (BirdFacts, BTO website). Graph 2 plots the number of Lesser Black-backed Gulls that are known to have survived for a specific number of months since release.



Above: Graph 2. The number of Lesser Black-backed Gulls known to have survived (by months) since their release.

Secret World	Colour ringed	reported	%
Lesser B-b Gull	60	30	50.0

I have not found any studies with which we can compare the recovery rates for Lesser Black-backed Gulls other than the ringing totals provided by the BTO with 207,232 ringed and total recoveries of 34,197 (Dadam et al 2013) giving a recovery rate of 16.5%. The reporting rate so far for these birds released by Secret World and seen at least once is an impressive 50%

	Herring Gull	Lesser B-b Gull
Secret World colour ringed	22.3 %	50.0 %
BTO (metal rings)	7.5 %	16.5 %

However, as with the Herring Gulls, the higher reporting rate, compared to BTO metal rings, is no doubt due to the use of colour rings but why should the reporting rate be lower for Herring Gulls compared with Lesser Black-backed Gulls in both data sets? From the reporting of the Secret World birds it is apparent that there are some very dedicated gull watchers in Portugal and Spain and so, in this study, the explanation probably rests with observer bias. Maybe this also feeds into the difference for the BTO scheme.

Summary.

184 Herring Gulls and 60 Lesser Black-backed Gulls were colour ringed and released after rehabilitation by the Secret World Wildlife Centre between 2011 and 2013. The recovery rate up to March 31st 2014 for Herring Gulls was 24.4% and for Lesser Black-backed Gulls was 50%.

The released birds conformed with the known pattern of migration for the two species, with Herring Gulls tending to remain in Southern England and Lesser Black-backed Gulls moving to S.W. Europe in the winter months.

The post release survival indicate that the protocols for care at Secret World give results that are comparable to the survival rates found in other studies investigating rehabilitated and 'wild' birds.

Acknowledgements.

Thanks go to all of the people, mainly birdwatchers but also general members of the public, who took the time and trouble to report their sightings. The staff at Secret World who care for the gulls on a daily basis including Sara Cowen, Martin Kendall and Pauline Kidner with whom we had the most contact. Peter Rock for advice and help in organising the colour ringing scheme. The ringers: Chris Craig, Ed Drewitt, George Gay, Paul Gay, Patrick Hancock, Adele Powell, Tim Ridger-Steers, Andy Slade and Nick Stephens.

References:

Dadam, D. et al. (2013) Bird ringing and nest recording in Britain and Ireland in 2012. *Ringling & Migration*, Vol 28, No. 2. 113-155.

Thompson, R.P. (2013). Factors influencing the admission of urban nesting Herring Gull *Larus argentatus* into a rehabilitation centre and post release survival in comparison with wild counterparts. *M.Phil Thesis*. Sussex University. This can be viewed at <http://sro.sussex.ac.uk/46889/>

Wernham, C. et al. (2002). *The Migration Atlas - movements of the birds of Britain and Ireland*, 365-372

Mike Bailey (24th April 2014)

Herring Gulls

Recovery histories for rehabilitated birds released by Secret World at Burnham on Sea.

Ages are given by Calender Year (CY).

The time period between release and subsequent recovery / sighting is given in the right-hand column.

The recovery of birds that were reported as dead are highlighted in red.

Ring No.	Reported from	Colour ring	Age	Date	Year	Month	days
GR37261		GB RW(S:023)	1 CY	22/07/2011			
Hensol Lake		GB RW(S:023)	2 CY	08/02/2012		6	17
GR37264		GB RW(S:027)	1 CY	22/07/2011			
Sibleyback Lake, Liskeard		GB RW(S:027)	3 CY	04/01/2013	1	5	17
Sibleyback Lake, Liskeard		GB RW(S:027)	3 CY	11/02/2013	1	6	20
Sibleyback Lake, Liskeard		GB RW(S:027)	3 CY	02/12/2013	2	4	10
GR37266		GB RW(S:029)	1 CY	22/07/2011			
Apex Park, Burnham On Sea		GB RW(S:029)	1 CY	17/08/2011			26
Beddington Farm		GB RW(S:029)	3 CY	16/05/2013	1	9	24
GR37270		GB RW(S:032)	1CY	22/07/2011			
Porthcawl, Mid Glam		GB RW(S:032)	4CY	17/03/2014	2	7	23
GR37273		GB RW(S:035)	1CY	22/07/2011			
Roscoff harbour, France		FR RW(S:035)	4CY	10/03/2014	2	7	16
GR37275		GB RW(S:037)	1 CY	22/07/2011			
Newlyn Harbour		GB RW(S:037)	1 CY	27/10/2011		3	5
Lizard Point, Cornwall.		GB RW(S:037)	4CY	11/03/2014	2	7	17
GR37280		GB RW(S:042)	1 CY	22/07/2011			
Shawell Tip, Leicestershire		GB RW(S:042)	1 CY	28/12/2011		5	6
Redbridge Wharf, Southampton		GB RW(S:042)	2 CY	26/03/2012		8	4
Shortwood		GB RW(S:042)	2 CY	07/09/2012	1	1	16
Shortwood		GB RW(S:042)	2 CY	03/10/2012	1	2	11
Shortwood		GB RW(S:042)	2 CY	28/10/2012	1	3	6
GR37281		GB RW(S:043)	1 CY	22/07/2011			
Blue Anchor Beach		GB RW(S:043)	2 CY	18/10/2012	1	2	26
GR37292		GB RW(S:054)	1 CY	22/07/2011			
East Looe River		GB RW(S:054)	1 CY	10/11/2011		3	19
East Looe River		GB RW(S:054)	3 CY	15/01/2013	1	5	24
GR37293		GB RW(S:055)	1 CY	22/07/2011			
Torr Reservoir, East Cranmoor		GB RW(S:055)	2 CY	20/03/2012		7	2
Torr Reservoir, East Cranmoor		GB RW(S:055)	2 CY	07/04/2012		8	16
Torr Reservoir, East Cranmoor		GB RW(S:055)	3 CY	06/07/2013	1	10	15
GR37294		GB RW(S:056)	1 CY	22/07/2011			
East Looe River		GB RW(S:056)	3 CY	25/08/2013	2	1	3
East Looe River		GB RW(S:056)	4 CY	17/01/2014	2	5	26

Herring Gulls (continued)

Ring No. Reported from	Colour ring	Age	Date	Year	Month	days
GR37300	GB RW(S:062)	1 CY	22/07/2011			
Playa de Alba	ES RW(S:062)	2 CY	22/01/2012		6	0
Playa de Alba	ES RW(S:062)	2 CY	27/02/2012		7	5
Playa de Alba	ES RW(S:062)	2 CY	12/04/2012		8	21
Chew Valley Lake	GB RW(S:062)	3 CY	25/05/2013	1	10	3
Chew Valley Lake	GB RW(S:062)	3 CY	01/07/2013	1	11	9
GR43003	GB RW(S:065)	1 CY	22/07/2011			
Elsham Tops	GB RW(S:065)	3 CY	31/07/2013	2	0	9
GR43006	GB RW(S:068)	1 CY	22/07/2011			
Wyke Chamflower	GB RW(S:068)	2 CY	07/04/2012		8	16
GR43010	GB RW(S:072)	4 CY+	22/07/2011			
Gloucester Tip	GB RW(S:072)	4 CY+	11/08/2011			20
Bishops Cleeve	GB RW(S:072)	4 CY+	12/10/2013	2	2	20
GR43012	GB RW(S:074)	1 CY	31/07/2011			
Radipole	GB RW(S:074)	1 CY	04/12/2011		4	4
Redbridge Wharf, Southampton	GB RW(S:074)	2 CY	29/02/2012		6	29
Marlow Gravel Pits	GB RW(S:074)	3 CY	06/02/2013	1	6	6
GR43014	GB RW(S:076)	1 CY	22/07/2011			
Apex Park, Burnham On Sea	GB RW(S:076)	1 CY	27/07/2011			5
GR43022	GB RW(S:084)	1 CY	31/07/2011			
Weston-S-Mare	GB RW(S:084)	2 CY	07/02/2012		6	7
Weston-S-Mare	GB RW(S:084)	3 CY	23/06/2013	1	10	23
GR43025	GB RW(S:087)	4 CY+	31/07/2011			
Barrow Gurney Res.	GB RW(S:087)	4 CY+	21/01/2012		5	2
St. Phillips, Bristol	GB RW(S:087)	4 CY+	15/08/2012	1	0	15
GR43030	GB RW(S:091)	1 CY	31/07/2011			
Torr Reservoir, East Cranmoor	GB RW(S:091)	3 CY	06/06/2013	1	10	6
GR43033	GB RW(S:094)	1 CY	31/07/2011			
Apex Park, Burnham On Sea	GB RW(S:094)	3 CY	08/01/2013	1	5	8
Apex Park, Burnham On Sea	GB RW(S:094)	3 CY	28/03/2013	1	7	28
Apex Park, Burnham On Sea	GB RW(S:094)	3 CY	31/12/2013	2	5	0
GR43034	GB RW(S:095)	1 CY	31/07/2011			
Apex Park, Burnham On Sea	GB RW(S:095)	1 CY	13/08/2011			14
Apex Park, Burnham On Sea	GB RW(S:095)	3 CY	08/01/2013	1	5	9
GR43038	GB RW(S:099)	1 CY	31/07/2011			
Apex Park, Burnham On Sea	GB RW(S:099)	1 CY	17/10/2011		2	18
Apex Park, Burnham On Sea	GB RW(S:099)	1 CY	01/11/2011		3	2
Apex Park, Burnham On Sea	GB RW(S:099)	2 CY	14/01/2012		5	15
Apex Park, Burnham On Sea	GB RW(S:099)	2 CY	22/03/2012		7	23
Apex Park, Burnham On Sea	GB RW(S:099)	3 CY	28/03/2013	1	7	29

Herring Gulls (continued)

Ring No. Reported from	Colour ring	Age	Date	Year	Month	days
GR43039	GB RW(S:100)	1 CY	31/07/2011			
Lyme Regis Harbour	GB RW(S:100)	4CY	28/03/2014	2	7	28
GR43041	GB RW(S:102)	1 CY	31/07/2011			
Apex Park, Burnham On Sea	GB RW(S:102)	3 CY	01/04/2013	1	8	2
GR43048	GB RW(S:109)	1 CY	18/08/2011			
Bridgewater town area	GB RW(S:109)	1 CY	26/08/2011			8
GR43056	GB RW(S:117)	1 CY	28/08/2011			
Dowlais Top	GB RW(S:117)	3 CY	09/02/2013	1	5	12
GR43057	GB RW(S:118)	1 CY	28/08/2011			
Cardiff city centre	GB RW(S:118)	3 CY	31/12/2013	2	4	3
GR43084	GB RW(S:124)	1 CY	30/07/2012			
Beddington Farm	GB RW(S:124)	1 CY	11/12/2012		4	11
Naujac-sur-mer	FR RW(S:124)	2 CY	28/03/2013		7	28
GR43085	GB RW(S:125)	1 CY	30/07/2012			
Apex Park, Burnham On Sea	GB RW(S:125)	2 CY	19/03/2013		7	19
Apex Park, Burnham On Sea	GB RW(S:125)	2 CY	01/04/2013		8	2
GR43093	GB RW(S:133)	1 CY	30/07/2012			
Chew Valley Lake	GB RW(S:133)	1 CY	17/08/2012			18
GR43095	GB RW(S:135)	1 CY	30/07/2012			
East Looe River	GB RW(S:135)	1 CY	04/11/2012		3	5
East Looe River	GB RW(S:135)	1 CY	02/12/2012		4	2
East Looe River	GB RW(S:135)	1 CY	14/12/2012		4	14
East Looe River	GB RW(S:135)	2 CY	09/01/2013		5	10
GR43101	GB RW(S:141)	1 CY	30/07/2012			
Apex Park, Burnham On Sea	GB RW(S:141)	2 CY	10/01/2013		5	11
GR43119	GB RW(S:159)	1 CY	30/07/2012			
West Bexington	GB RW(S:159)	2 CY	15/07/2013		11	5
GR43120	GB RW(S:160)	1CY	30/07/2012			
Albion Landfill, Leicester	GB RW(S:160)	2CY	27/03/2014	1	7	27
Shawell, leicester	GB RW(S:160)	2CY	29/03/2014	1	7	29
GR43131	GB RW(S:173)	1 CY	27/08/2012			
Meiras Beach, Valdovino, Spain	ES RW(S:173)	1 CY	23/10/2012		1	26
GR43142	GB RW(S:185)	1 CY	27/08/2012			
Apex Park, Burnham On Sea	GB RW(S:185)	2 CY	07/01/2013		4	11
Apex Park, Burnham On Sea	GB RW(S:185)	2 CY	28/01/2013		5	1
Apex Park, Burnham On Sea	GB RW(S:185)	2 CY	19/03/2013		6	10

Ring No. Reported from	Colour ring	Age	Date	Year	Month	days
GR43149	GB RW(S:192)	1 CY	27/08/2012			
Marlow Gravel Pits	GB RW(S:192)	2 CY	06/02/2013		5	10
Beddington Farm	GB RW(S:192)	2 CY	12/06/2013		9	16
GR43175	GB RW(S:214)	1 CY	17/07/2013			
Exeter Quay	GB RW(S:214)	2 CY	28/01/2014		6	11
GF24897	GB RW(S:242)	1 CY	17/07/2013			
Apex Park, Burnham On Sea	GB RW(S:242)	1 CY	31/12/2013		5	14

Lesser Black-backed Gulls

Recovery histories for rehabilitated birds released by Secret World at Burnham on Sea.

Ages are given by Calender Year (CY).

The time period between release and subsequent recovery / sighting is given in the right-hand column.

The recovery of birds that were reported as dead are highlighted in red.

Ring No. Reported from	Colour ring	Age	Date	Y	M	D
GN96541	GB LBRW(S:246)	1 CY	17/07/2013			
Porto, Portugal	PO LBRW(S:246)	1 CY	11/09/2013		1	25
Quartierra Beach, Faro,	PO LBRW(S:246)	1 CY	16/10/2013		2	29
Odiel Marsh, Spain.	ES LBRW(S:246)	2 CY	28/01/2014		6	11
GN96546	GB LBRW(S:251)	1 CY	17/07/2013			
Villaperez, Oviedo, Spain.	ES LBRW(S:251)	2 CY	17/01/2014		6	0
Isabel Park, Gijon. Spain	ES LBRW(S:251)	2 CY	30/01/2014		6	13
Isabel Park, Gijon. Spain	ES LBRW(S:251)	2 CY	05/02/2014		6	19
Isabel Park, Gijon. Spain	ES LBRW(S:251)	2 CY	23/02/2014		7	7
Isabel Park, Gijon. Spain	ES LBRW(S:251)	2 CY	27/02/2014		7	11
GR37267	GB LBRW(S:030)	5 CY+	22/07/2011			
Colmenar Viejo Spain	ES LBRW(S:030)	5 CY+	07/01/2012		5	16
Colmenar Viejo Spain	ES LBRW(S:030)	5 CY+	21/01/2012		5	30
GR43017	GB LBRW(S:079)	5 CY+	31/07/2011			
Meare	GB LBRW(S:079)	5 CY+	06/11/2011		3	6
GR43018	GB LBRW(S:080)	3 CY	22/07/2011			
Langford Lakes	GB LBRW(S:080)	4 CY	10/02/2012		6	19
Langford Lakes	GB LBRW(S:080)	4 CY	14/02/2012		6	23
St. Phillips, Bristol	GB LBRW(S:080)	5 CY+	02/04/2013	1	8	11
GR43020	GB LBRW(S:082)	1 CY	31/07/2011			
Apex Park, Burnham On Sea	GB LBRW(S:082)	1 CY	17/08/2011			17
GR43028	GB LBRW(S:089)	1 CY	31/07/2011			
Apex Park, Burnham On Sea	GB LBRW(S:089)	1 CY	15/08/2011			15
GR43035	GB LBRW(S:096)	1 CY	31/07/2011			
LaPena.Bilba. Spain	ES LBRW(S:096)	1 CY	27/09/2011		1	27
Igorre Dump. Spain	ES LBRW(S:096)	1 CY	04/10/2011		2	4
Villarrasa Landfill, Huelva, S.	ES LBRW(S:096)	1 CY	23/12/2011		4	23
Villarrasa Landfill, Huelva, S.	ES LBRW(S:096)	2 CY	08/11/2012	1	3	8
Villarrasa Landfill, Huelva, S.	ES LBRW(S:096)	3 CY	31/01/2013	1	6	0

Lesser Black-backed Gulls (continued)

Ring No.	Reported from		Colour ring	Age	Date	Y	M	D
GR43036		GB	LBRW(S:097)	1 CY	31/07/2011			
	Bridgewater town area	GB	LBRW(S:097)	1 CY	08/08/2011			8
	Perelle Beach, Guernsey	FR	LBRW(S:097)	1 CY	16/09/2011		1	16
	Pinto Landfill, Madrid. Spain	ES	LBRW(S:097)	2 CY	23/04/2012		8	23
	Pinto Landfill, Madrid. Spain	ES	LBRW(S:097)	2 CY	10/11/2012	1	3	10
GR43045		GB	LBRW(S:106)	1 CY	11/08/2011			
	Taboeira, Portugal	PO	LBRW(S:106)	1 CY	06/11/2011		2	26
GR43052		GB	LBRW(S:113)	1 CY	18/08/2011			
	Apex Park, Burnham On Sea	GB	LBRW(S:113)	1 CY	17/09/2011			30
GR43053		GB	LBRW(S:114)	1 CY	18/08/2011			
	LaPena.Bilbao. Spain	ES	LBRW(S:114)	1 CY	27/09/2011		1	9
	Aterro landfill Portimao	PO	LBRW(S:114)	2 CY	01/10/2012	1	1	13
	Aterro landfill Portimao	PO	LBRW(S:114)	3 CY	30/09/2013	2	1	12
GR43067		GB	LBRW(S:123)	5 CY+	06/06/2012			
	Isla Cristina Marsh, SW.Spain	ES	LBRW(S:123)	5 CY+	01/10/2012		3	25
GR43096		GB	LBRW(S:136)	3 CY	30/07/2012			
	St. Phillips, Bristol	GB	LBRW(S:136)	4 CY	18/06/2013		10	19
	St. Phillips, Bristol	GB	LBRW(S:136)	4 CY	23/06/2013		10	24
	St. Phillips, Bristol	GB	LBRW(S:136)	4 CY	18/07/2013		11	18
	St. Phillips, Bristol	GB	LBRW(S:136)	4 CY	30/07/2013	1	0	0
GR43103		GB	LBRW(S:143)	1 CY	30/07/2012			
	Lisbon Harbour	PO	LBRW(S:143)	1 CY	24/10/2012		2	24
	Valdovino,N.W.Spain	ES	LBRW(S:143)	1 CY	28/10/2012		2	28
	Chipiona Harbour	ES	LBRW(S:143)	2 CY	05/01/2013		5	6
	Chipiona Harbour	ES	LBRW(S:143)	2 CY	19/01/2013		5	20
	Chipiona Harbour	ES	LBRW(S:143)	2 CY	02/03/2013		7	2
	Chipiona Harbour	ES	LBRW(S:143)	2 CY	10/03/2013		7	10
	Chipiona Harbour	ES	LBRW(S:143)	2 CY	06/07/2013		11	6
	Chipiona Harbour	ES	LBRW(S:143)	2 CY	19/08/2013	1	0	20
GR43105		GB	LBRW(S:145)	1 CY	30/07/2012			
	Barra Beach	PO	LBRW(S:145)	1 CY	06/11/2012		3	7
GR43146		GB	LBRW(S:189)	1 CY	27/08/2012			
	Portimao Harbour	PO	LBRW(S:189)	1 CY	01/10/2012		1	4
	Aterro landfill Portimao	PO	LBRW(S:189)	1 CY	08/10/2012		1	11
GR43147		GB	LBRW(S:190)	1 CY	27/08/2012			
	Quartierra Beach, Faro,	PO	LBRW(S:190)	1 CY	14/10/2012		1	17
GR43155		GB	LBRW(S:198)	1 CY	27/08/2012			
	Quartierra Beach, Faro,	PO	LBRW(S:198)	1 CY	19/09/2012			23
	Quartierra Beach, Faro,	PO	LBRW(S:198)	1 CY	28/10/2012		2	1
	Quartierra Beach, Faro,	PO	LBRW(S:198)	1 CY	30/11/2012		3	3
	Quartierra Beach, Faro,	PO	LBRW(S:198)	2 CY	30/01/2013		5	3
	Quartierra Beach, Faro,	PO	LBRW(S:198)	2 CY	18/02/2013		5	22
	Quartierra Beach, Faro,	PO	LBRW(S:198)	2 CY	22/03/2013		6	23
	Quartierra Beach, Faro,	PO	LBRW(S:198)	2 CY	02/04/2013		7	6
	Quartierra Beach, Faro,	PO	LBRW(S:198)	2 CY	04/05/2013		8	7

Lesser Black-backed Gulls (continued)

Ring No. Reported from		Colour ring	Age	Date	Y	M	D
GR43161	GB	LBRW(S:204)	1 CY	05/10/2012			
Aguda Beach, Porto	PO	LBRW(S:204)	1 CY	04/11/2012			30
Aguda Beach, Porto	PO	LBRW(S:204)	1 CY	06/11/2012		1	1
Aguda Beach, Porto	PO	LBRW(S:204)	1 CY	09/11/2012		1	4
Aguda Beach, Porto	PO	LBRW(S:204)	2 CY	11/01/2013		3	6
Aguda Beach, Porto	PO	LBRW(S:204)	2 CY	17/01/2013		3	12
Aguda Beach, Porto	PO	LBRW(S:204)	2 CY	08/02/2013		4	3
Aguda Beach, Porto	PO	LBRW(S:204)	2 CY	26/02/2013		4	21
Aguda Beach, Porto	PO	LBRW(S:204)	2 CY	10/03/2013		5	5
Aguda Beach, Porto	PO	LBRW(S:204)	2 CY	20/03/2013		5	15
GR43164	GB	LBRW(S:207)	1 CY	05/10/2012			
Castropol, N.W.Spain	ES	LBRW(S:207)	2 CY	17/08/2013		10	12
GR43174	GB	LBRW(S:213)	1 CY	17/07/2013			
Colmenar Viejo	ES	LBRW(S:213)	1 CY	22/12/2013		5	5
Colmenar Viejo	ES	LBRW(S:213)	2 CY	03/01/2014		5	17
Pinto Landfill, Madrid	ES	LBRW(S:213)	2 CY	01/02/2014		6	15
Manzanares River, Madrid	ES	LBRW(S:213)	2 CY	23/02/2014		7	6
Colmenar Viejo	ES	LBRW(S:213)	2 CY	02/03/2014		7	13
Pinto Landfill, Madrid	ES	LBRW(S:213)	2 CY	28/03/2014		8	11
GR43180	GB	LBRW(S:219)	1 CY	17/07/2013			
Colmenar Viejo	ES	LBRW(S:219)	1 CY	08/12/2013		4	21
Pinto Landfill, Madrid	ES	LBRW(S:219)	1 CY	16/01/2014		5	30
GR43181	GB	LBRW(S:220)	1 CY	17/07/2013			
Fonte da Tehla Beach, Portugal	PO	LBRW(S:220)	2 CY	14/10/2013		2	27
GR43183	GB	LBRW(S:222)	1 CY	17/07/2013			
Portimao Harbour	PO	LBRW(S:222)	1 CY	26/11/2013		4	9
GR43184	GB	LBRW(S:223)	1 CY	17/07/2013			
Vil de Matos	PO	LBRW(S:223)	1 CY	08/11/2013		3	22
Badojoz landfill	ES	LBRW(S:223)	1 CY	24/11/2013		4	7
Eirol landfill, Aveiro, Portugal	PO	LBRW(S:223)	1 CY	31/03/2014		8	14
GR43188	GB	LBRW(S:227)	1 CY	17/07/2013			
Portimao Harbour	PO	LBRW(S:227)	1 CY	26/11/2013		4	9
Portimao Harbour	PO	LBRW(S:227)	1 CY	26/12/2013		5	9
GR43190	GB	LBRW(S:229)	1 CY	17/07/2013			
Bastiaguerio Beach, Coruna,	ES	LBRW(S:229)	1 CY	02/09/2013		1	16
GR87456	GB	LBRW(S:261)	1 CY	17/07/2013			
Manzanares River, Madrid	ES	LBRW(S:261)	2 CY	10/02/2014		6	24
Manzanares River, Madrid	ES	LBRW(S:261)	2 CY	16/02/2014		6	30
Manzanares River, Madrid	ES	LBRW(S:261)	2 CY	18/02/2014		7	1
Pinto landfill, Madrid, Spain	ES	LBRW(S:261)	2 CY	21/02/2014		7	4
GR87463	GB	LBRW(S:268)	1 CY	17/07/2013			
Viviero, Lugo	ES	LBRW(S:268)	2 CY	02/01/2014		3	16