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# LOBSTER V-NOTCHING REPORT 2011



# INTRODUCTION

For the benefit of those unfamiliar with **European Lobsters (*Homarus Gammarus*)** here are some interesting lobster facts:-

Lobsters are enclosed in a hard, rigid exoskeleton or shell. They grow in length by shedding their exoskeleton, a process known as moulting. During each moult the carapace (body) length typically increases by 10 to 15%. The exoskeleton is expanded and stretched when it is still soft by the lobster taking in water and excreting it into the body tissue. The shell then hardens over a period of days and the fluid is gradually replaced by extra body tissue.

Lobsters mate in early summer when hard-shelled males mate with newly moulted females. Egg production is dependent on the size of the lobster. An immature female can lay 3-5,000 eggs, whereas a larger, more mature, female can lay up to 20,000 eggs which the female will carry for approximately 11 months. Survival rates of juveniles can be low, in some cases only 1 in 20,000 will make it to maturity. A typical lobster embryo moults 35 times inside the egg before hatching, releasing the match head larvae into the sea. Lobster larvae will spend 3-4 weeks close to the surface as part of free-floating plankton before settling on the seabed. During this stage the larvae complete another 4 moults, growing to about 12 mm. Young lobsters can moult up to 25 times in the first five years, adults moult less frequently and large older ones tend to moult as little as once every 2 years. For the first few years lobsters usually remain in holes or crevices in the sea floor, safe from predation by fish and crabs and it is only when they reach around 40 mm carapace (body) length that they will start to move about and forage for food.

Lobsters are solitary, nocturnal and territorial. They live in depths of up to 150 metres, although they are rarely found deeper than 50 metres. They have a typical home range of 2 km and are not a prominent feature in the fishery at winter, when their feeding habit is reduced as their metabolic rate slows due to lower sea temperatures.

This report contains summary information upon all v-notching work undertaken in 2011. The scheme is now in its 12<sup>th</sup> year, resulting in 1292 mature egg-bearing female being v-notched and returned to the sea.

A v-notch takes at least two castings (approximately 2 years) to grow out, thus enabling each notched animal to potentially release 2 clutches of eggs before being eligible for capture again. In order to protect "V" notched animals, the Authority has Byelaw (6) "**Protection of 'V' Notched Lobsters**" (all byelaws can be viewed on the Authority's website [www.nifca.gov.uk](http://www.nifca.gov.uk)). It is also an offence to "mutilate" a lobster, meaning the removal of any part of a lobster tail which could disguise the "v" notch. V-notching is carried out on alternate uropods (inner tail flap) adjacent to the telson (centre flap) every year. One year on the left, the next year on the right, and so on. This enables the officers to broadly identify the rate of notch loss yearly. It is difficult to access precisely the number of offspring that will be produced, since survival rates are governed by a large range of factors.

Since the start of the lobster v-notching scheme, the Authority has had positive feedback throughout the district (and beyond supporting the scheme) from fishermen claiming that numbers of immature lobsters have increased, which bodes well for the future of the fisheries as the main reason for v-notching is to maintain and enhance healthy lobster stocks within the Authority's district.

To summarise activity for 2011: 1,292 mature egg-bearing female lobsters were released at various suitable grounds throughout the Authority's district. The lobsters were released on 6 different dates on 12 release tracks from either the Authority's patrol vessel, St. Oswald, or the shore-based RIB, Bravo 1.

Finally, the Authority's officers would like to express sincere gratitude to all organisations and individuals who have made donations to the scheme in the past year. Your support is invaluable and helped to ensure the continuing success of the scheme.

# Brief Summary 2011 V-Notching Programme

Chief IFCO (Operations) A.B. Browne

The 2011 v-notching project started on Friday 29 July and was completed by Thursday 22 September. In total 1,292 female lobsters were released back into the sea. A total of 12 separate release sites were used throughout the Authority's 5 sectors on 6 separate patrol days using either the Authority's patrol vessel St. Oswald or Bravo 1 the shore-based RIB.

The total costs for lobsters this year came to £8,661.55 and were purchased by the Authority's officers from wholesalers Berwick Shellfish Company, Blyth Fish Ltd. and Moir Seafoods Ltd. The officers were able to buy the lobsters when they were most plentiful and when prices were at their lowest and without this help the annual v-notching programme would be less likely to continue. The quality of lobsters purchased in 2011 was excellent and, in addition, none were lost during transportation or when being released back into the sea.

Once again we have received and are still receiving donations from various fishermen within the Authority's district and in 2011 we received over £4,000. This is a great help towards the overall cost of the scheme and donations are always gratefully acknowledged although it would appear the same fishermen are contributing each year. Donations from other parties in 2012 will be very welcome.

## Distribution of V-Notched Lobsters

The distribution of the egg-bearing female lobsters in the Northumberland IFCA's district in 2011 was based upon the NIFCA district being divided into 5 separate sectors, as can be seen in the Appendices.

All lobster releases for the period are contained in Lobster "V" Notch Recording Sheets. Totals of sizes of animals released, which ranged from 87 to 124+ mm are also contained in the above sheet. Charts of the release site are also contained within the report – these correspond with the lobster v-notch recording sheets. The actual tracks and movements for each of the release days are also recorded on board the St. Oswald (the Authority's 21 metre patrol vessel) computerised chart system.

As in previous years, the lobsters have been evenly released throughout the sectors. Also, within individual sectors wherever possible, local knowledge of suitable locations and habitats has been used to choose suitable release sites.

## Transportation

In 2011 all the lobsters purchased from the wholesalers were collected using the Authority's Land Rover or one of the RIBs (Bravo 1/Delta 1). Once collected the lobsters were taken to either the St. Oswald (to be transferred to a holding tank until released to a designated release site) or to Bravo 1 for release.

Mileage has been kept to a minimum by purchasing more lobsters for each release. Again, during transportation, transfer and release, no known mortalities of lobsters were detected.

Summaries of Land Rover mileage, RIB and patrol vessel costs plus man hours are reported on the following page of this document.

# 2011 LOBSTER “V” NOTCHING SCHEME

Record of :- Land Rover Mileage - RIB Hours – Patrol Vessel Hours – Man Hours

Land Rover					RIB			Patrol Vessel		
Date 2011	Mileage	Hours	No. of Officers	Man Hours	Hours	No. of Officers	Man Hours	Hours	No. of Officers	Man Hours
29 July	150	4	1	4	2	2	4	8	4	32
5 August					4	3	1 2			
10 August	140	4	1	4	3	3	9			
2 September	30	2	1	2				6	4	24
19 September	30	3	1	3	4	3	12			
22 September	150	6	1	6	4	3	15			
<b>TOTAL</b>	<b>500</b>	<b>19</b>	<b>5</b>	<b>19</b>	<b>17</b>	<b>14</b>	<b>52</b>	<b>14</b>	<b>8</b>	<b>56</b>

Land Rover petrol costs            500 miles @ 25 mile per gallon = 20 gals @ £6.20 = £124.00  
 RIB petrol costs                        17 hours @ 5 gals per hour = 85 gals @ £5.90 per gal = £501.50  
 P/V diesel costs                        14 hours @ 25 gals per hour = 350 gals @ £3.07 = £1,074.50  
 Total man hours                        127 hours @ £20 per hour = £2,540

Direct and indirect costs incurred by NIFCA = £4,240

## Purchase of Lobsters

Information about the purchase of lobsters during 2011 is contained in the table below. The lobsters started to re-emerge from their holes in early July, however it was decided to wait until the end of July before commencing this year's release programme. As for previous years, every attempt was made to purchase lobsters in good condition and at reasonable prices from the wholesalers referred to above. Once again the wholesalers have provided good, healthy lobsters, all of which were returned to the sea alive.

Prices paid in 2011 varied between £8.50 and £11 per kg during the release period, working out at an average price of £6.70 per animal. Total outlay for the 1,292 lobsters purchased and released throughout the 2011 release period was £8,661.55.

### Table of Lobsters purchased 2011

Invoice (2011)	Date	Price per kg (£)	Invoice Total (£)
	29 July	9.50	2,153.65
	5 August	9.50	659.35
	10 August	9.50	1,501.00
	2 September	9.00	527.40
	2 September	8.50	769.25
	18 September	11.00	1,221.00
	22 September	10.00	1,830.00
			£8,661.55

**Overall Cost: £8,661.55**

**Average cost per kg: £9.50**

## **APPENDICES**

- Sector 1 - Tyne to Wansbeck**
- Sector 2 - Wansbeck to Amble**
- Sector 3 - Amble to Embleton**
- Sector 4 - Embleton to North of Farnes**
- Sector 5 - North of Farnes to Border**

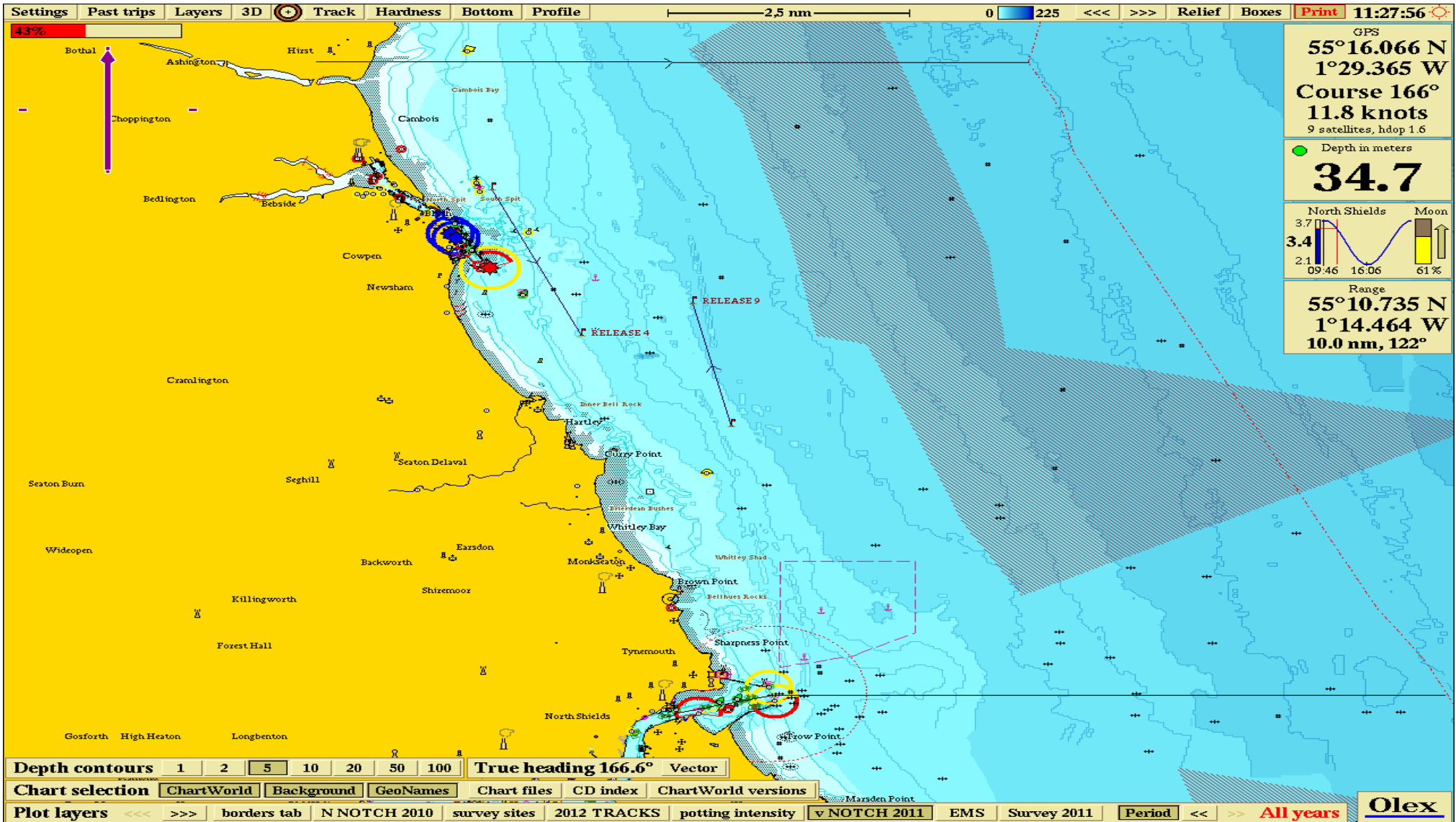




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## SECTOR 1

Tyne to Wansbeck



**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	<b>4</b>	<b>RELEASE SECTOR</b>	<b>1</b>
<b>DATE</b>	<b>05/08/2011</b>		
<b>START RELEASE</b>	<b>55-08.13 N 001-29.16 W</b>		
<b>END RELEASE</b>	<b>55-06.00 N 001-27.55 W</b>		

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	11	2	13
88-89	8	4	12
89-90	11	3	14
90-91	8	4	12
91-92	12	1	13
92-93	8	3	11
93-94	7	1	8
94-95	11	2	13
95-96	5		5
96-97	3		3
97-98	2	1	3
98-99	5	3	8
99-100	3	2	5
100-101	5		5
101-102	1		1
102-103	1		1
103-104			
104-105	1		1
105-106			
106-107			
107-108			
108-109	1		1
109-110	2		2
110-111	1		1
111-112	1		1
112-113			
113-114			
114-115			
115-116			
116-117			
117-118			
118-119	1		1
119-120			
120-121			
121-122			
122-123			
123-124			
124-125	3		3
<b>TOTAL</b>	<b>111</b>	<b>26</b>	<b>137</b>

**LOBSTER 'V' NOTCH RECORDING SHEET**

**RELEASE NUMBER**

**9**

**RELEASE SECTOR**

**1**

**DATE**

**19/09/2011**

**START RELEASE**

**55-04-68N 001-24-85W**

**END RELEASE**

**55-06-47N 001-25-53W**

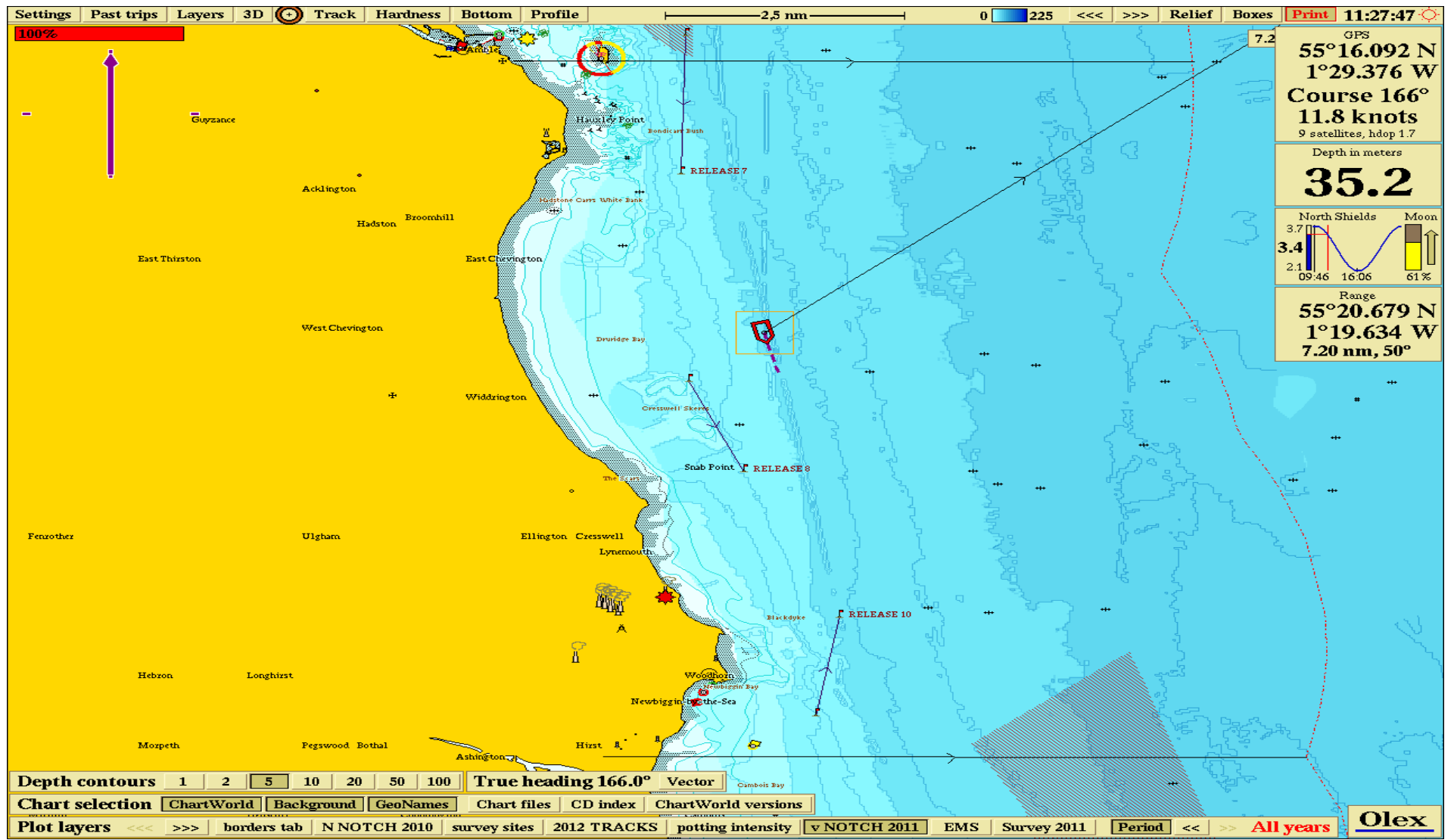
Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	6		6
88-89	4		4
89-90	1		1
90-91	15		15
91-92	14		14
92-93	15		15
93-94	12		12
94-95	7		7
95-96	6		6
96-97	3		3
97-98	4		4
98-99	3		3
99-100	3		3
100-101	2		2
101-102	1		1
102-103			
103-104			
104-105	2		2
105-106			
106-107			
107-108			
108-109			
109-110	2		2
110-111			
111-112			
112-113			
113-114			
114-115			
115-116			
116-117			
117-118			
118-119			
119-120			
120-121			
121-122			
122-123			
123-124			
124-125			
<b>TOTAL</b>	<b>100</b>		<b>100</b>



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## SECTOR 2

Wansbeck to Amble



**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	7	<b>RELEASE SECTOR</b>	2
<b>DATE</b>	02/09/2011		
<b>START RELEASE</b>	55-20.36 N	001-30.84 W	
<b>END RELEASE</b>	55-18.37 N	001-30.91 W	

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	9		9
88-89	12	1	13
89-90	3		3
90-91	8		8
91-92	6		6
92-93	10		10
93-94	8		8
94-95	9		9
95-96	6		6
96-97	4		4
97-98	4		4
98-99	5		5
99-100	4		4
100-101	5		5
101-102	1		1
102-103	3		3
103-104	3		3
104-105			
105-106			
106-107			
107-108			
108-109			
109-110			
110-111	2		2
111-112	1		1
112-113	1		1
113-114	1		1
114-115			
115-116			
116-117	1		1
117-118			
118-119			
119-120			
120-121			
121-122			
122-123			
123-124	1		1
124-125	7		7
<b>TOTAL</b>	<b>114</b>	<b>1</b>	<b>115</b>

**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	<b>8</b>	<b>RELEASE SECTOR</b>	<b>2</b>
<b>DATE</b>	<b>02/09/2011</b>		
<b>START RELEASE</b>	<b>55-15.39 N</b>	<b>001-30.77 W</b>	
<b>END RELEASE</b>	<b>55-14.09 N</b>	<b>001-29.77 W</b>	

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	15		15
88-89	11	1	12
89-90	8		8
90-91	9	1	10
91-92	17		17
92-93	12		12
93-94	8	2	10
94-95	9		9
95-96	2		2
96-97	8		8
97-98	3		3
98-99			
99-100	2	1	3
100-101	4		4
101-102	2		2
102-103	1		1
103-104			
104-105	3		3
105-106			
106-107			
107-108			
108-109			
109-110			
110-111	2		2
111-112	1		1
112-113			
113-114			
114-115			
115-116			
116-117			
117-118			
118-119	3		3
119-120			
120-121			
121-122			
122-123			
123-124			
124-125	1		1
<b>TOTAL</b>	<b>121</b>	<b>5</b>	<b>126</b>



**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	<b>10</b>	<b>RELEASE SECTOR</b>	<b>2</b>
<b>DATE</b>	<b>19/09/2011</b>		
<b>START RELEASE</b>	<b>55-10.58 N</b>	<b>001-28.46 W</b>	
<b>END RELEASE</b>	<b>55-12.00 N</b>	<b>001-28.02 W</b>	

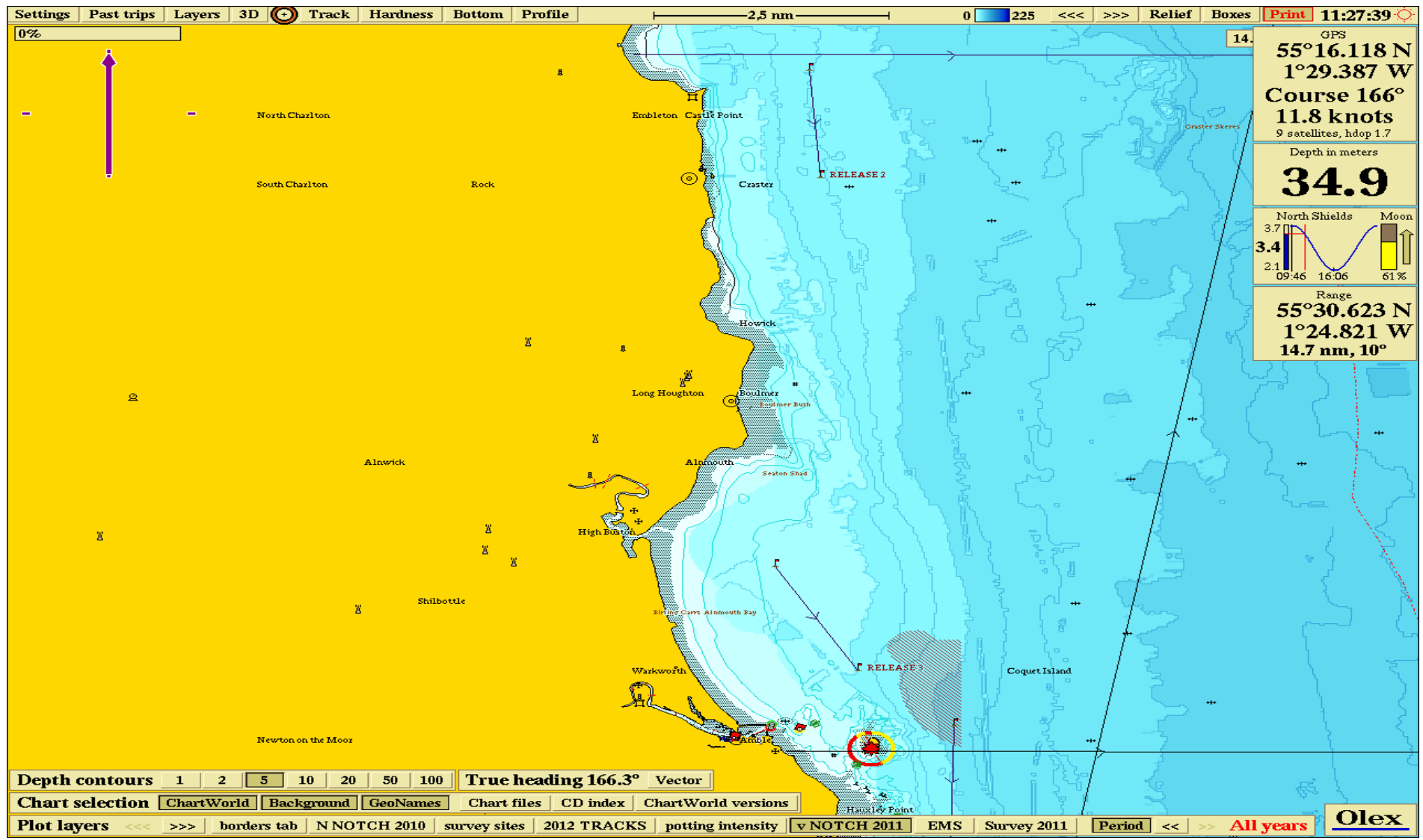
Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	13		13
88-89	10		10
89-90	8		8
90-91	10		10
91-92	11		11
92-93	9		9
93-94	11		11
94-95	10		10
95-96	3		3
96-97	2		2
97-98	3		3
98-99	6		6
99-100	2		2
100-101	1		1
101-102	2		2
102-103	2		2
103-104	1		1
104-105	1		1
105-106			
106-107			
107-108			
108-109	1		1
109-110	1		1
110-111			
111-112			
112-113			
113-114			
114-115			
115-116			
116-117	1		1
117-118			
118-119			
119-120	1		1
120-121			
121-122			
122-123			
123-124			
124-125			
<b>TOTAL</b>	<b>109</b>		<b>109</b>



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## SECTOR 3

Amble to Embleton



**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	<b>2</b>	<b>RELEASE SECTOR</b>	<b>3</b>
<b>DATE</b>	<b>29/07/2011</b>		
<b>START RELEASE</b>	<b>55-29.81 N</b>	<b>001-33.53 W</b>	
<b>END RELEASE</b>	<b>55-28.26 N</b>	<b>001-33.53 W</b>	

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	1	2	3
88-89	2	1	3
89-90		2	2
90-91	1	6	7
91-92	3	2	5
92-93	6	4	10
93-94	4	6	10
94-95	5	1	6
95-96	4	1	5
96-97	2		2
97-98	7	1	8
98-99	3	4	7
99-100	4	5	9
100-101	3	1	4
101-102		2	2
102-103	1		1
103-104	1	1	2
104-105			
105-106	1	1	2
106-107			
107-108	1		1
108-109	1		1
109-110		1	1
110-111	2		2
111-112			
112-113			
113-114	1		1
114-115	2		2
115-116	2		2
116-117			
117-118			
118-119		1	1
119-120			
120-121			
121-122	1		1
122-123			
123-124			
124-125			
<b>TOTAL</b>	<b>58</b>	<b>42</b>	<b>100</b>

**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	3	<b>RELEASE SECTOR</b>	3
<b>DATE</b>	29/07/2011		
<b>START RELEASE</b>	55-22.66 N	001-34.11 W	
<b>END RELEASE</b>	55-21.16 N	001-32.63 W	

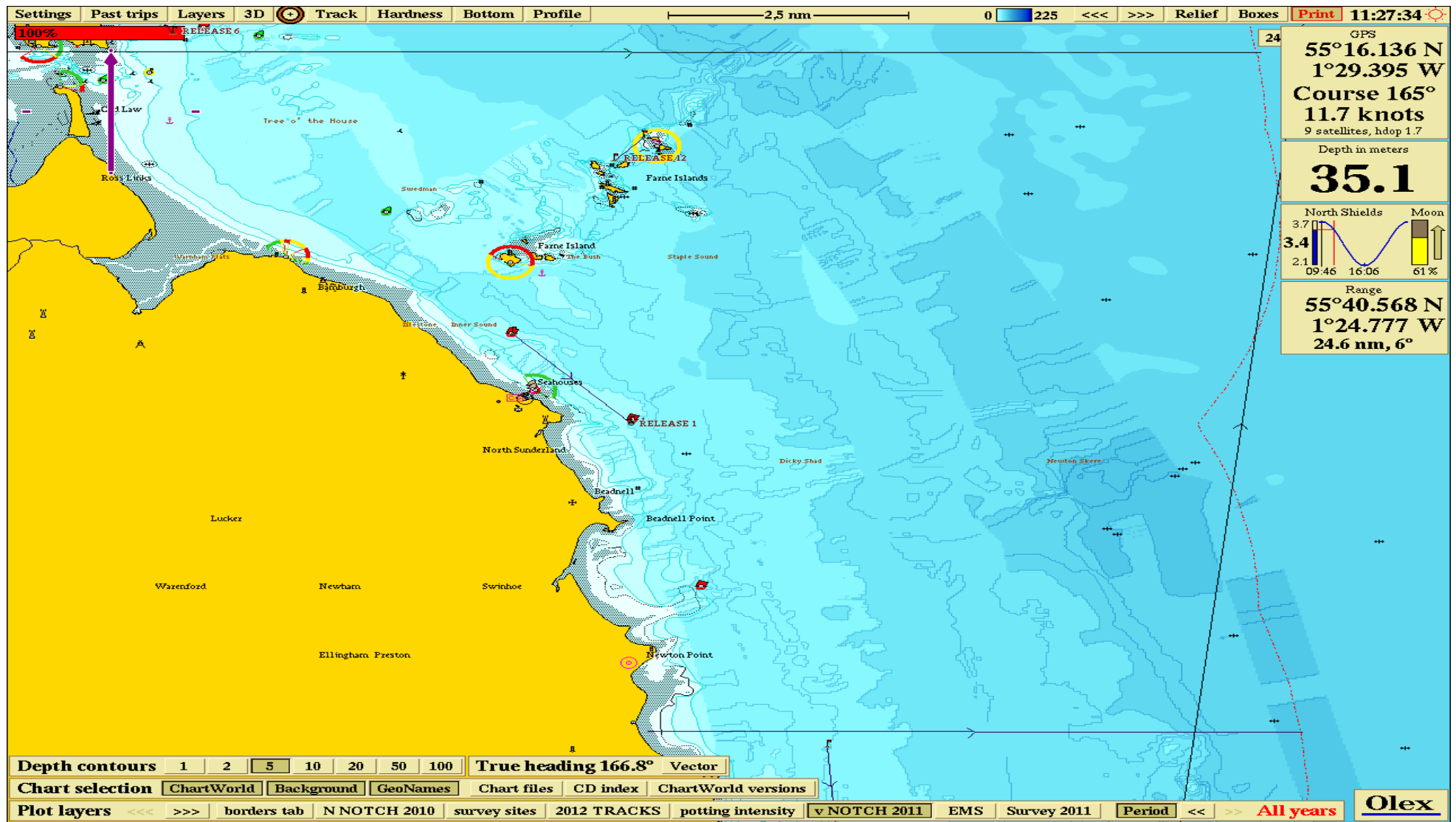
Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	2	2	4
88-89	1		1
89-90		1	1
90-91	4	3	7
91-92	2	2	4
92-93	5		5
93-94	2		2
94-95	1		1
95-96	2		2
96-97	1		1
97-98	2		2
98-99			
99-100	3		3
100-101	5	1	6
101-102	5	1	6
102-103	3	1	4
103-104	1		1
104-105	4		4
105-106			
106-107	3		3
107-108			
108-109	2	3	5
109-110	5		5
110-111	2		2
111-112		1	1
112-113	4		4
113-114			
114-115	4	1	5
115-116			
116-117			
117-118	2		2
118-119			
119-120	3		3
120-121			
121-122	3		3
122-123			
123-124	2		2
124-125	10	2	12
<b>TOTAL</b>	<b>83</b>	<b>18</b>	<b>101</b>



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## SECTOR 4

Embleton to North of Farnes



**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	<b>1</b>	<b>RELEASE SECTOR</b>	<b>4</b>
<b>DATE</b>	<b>29/07/2011</b>		
<b>START RELEASE</b>	<b>55-35.87 N</b>	<b>001-39.30 W</b>	
<b>END RELEASE</b>	<b>55-34.55 N</b>	<b>001-37.55 W</b>	

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	1	4	5
88-89	1	3	4
89-90	1	2	3
90-91	2	4	6
91-92	1	1	2
92-93	4		4
93-94	2	3	5
94-95	1	3	4
95-96	2	3	5
96-97	1	3	4
97-98	3	1	4
98-99	1	1	2
99-100	1		1
100-101	2		2
101-102	4	4	8
102-103	3	1	4
103-104	3		3
104-105	4		4
105-106	1		1
106-107	1	1	2
107-108	1		1
108-109	1	2	3
109-110	2		2
110-111	1		1
111-112	2	2	4
112-113	1		1
113-114	1	1	2
114-115	3		3
115-116	1		1
116-117			
117-118	1		1
118-119	2		2
119-120	2		2
120-121	2		2
121-122			
122-123			
123-124			
124-125	1	1	2
<b>TOTAL</b>	<b>60</b>	<b>40</b>	<b>100</b>



**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	12	<b>RELEASE SECTOR</b>	4
<b>DATE</b>	22/09/2011		
<b>START RELEASE</b>	55-38-75N	00136-87W	
<b>END RELEASE</b>	55-34-41N	00137-42W	

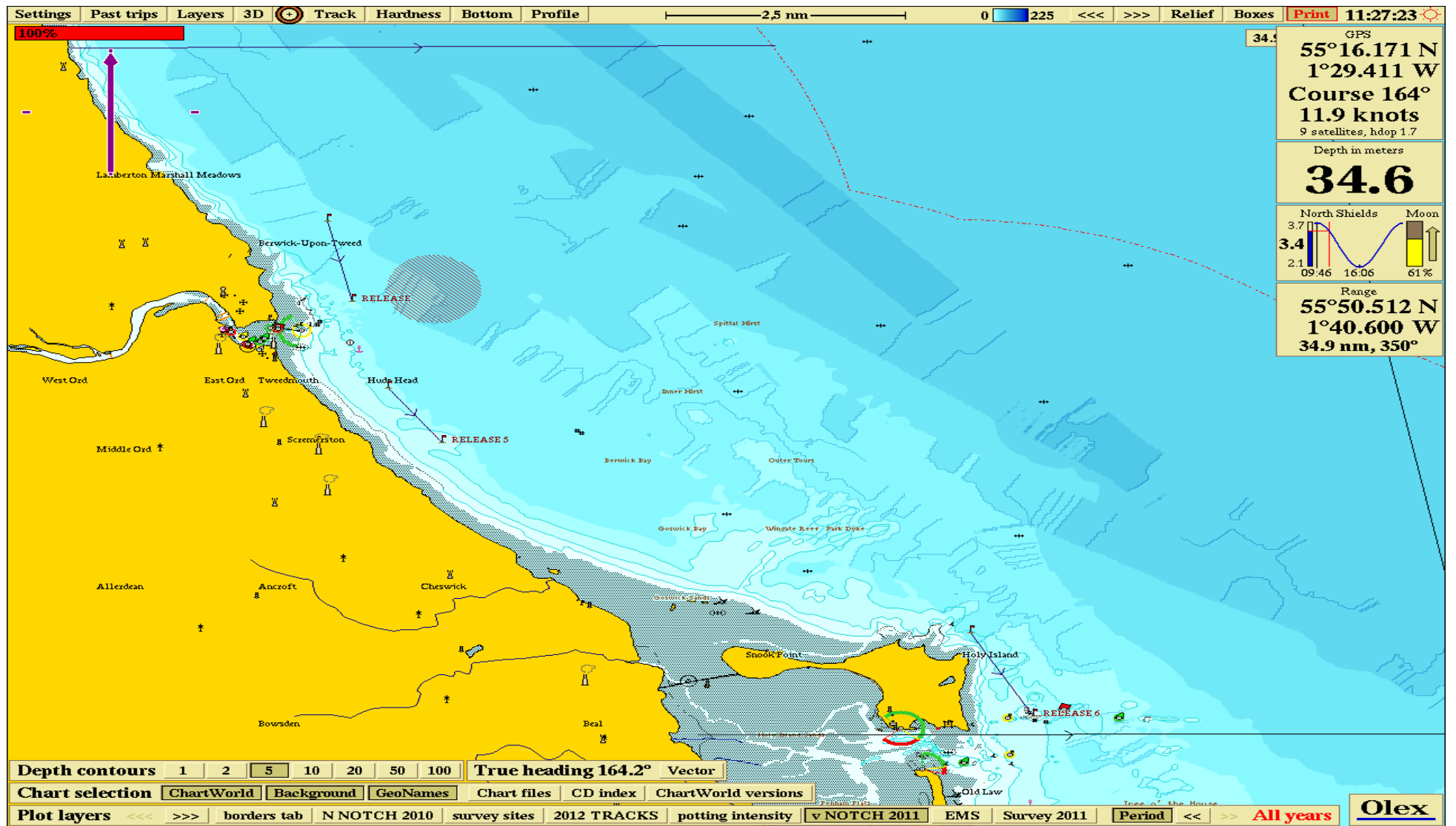
Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	10		10
88-89	6		6
89-90	12		12
90-91	8		8
91-92	5		5
92-93	12		12
93-94	7		7
94-95	15		15
95-96	3		3
96-97	2		2
97-98	1		1
98-99	6		6
99-100	3		3
100-101			
101-102	5		5
102-103	2		2
103-104	1		1
104-105	1		1
105-106			
106-107			
107-108			
108-109	1		1
109-110	1		1
110-111			
111-112			
112-113			
113-114			
114-115			
115-116			
116-117			
117-118	1		1
118-119			
119-120	1		1
120-121			
121-122			
122-123			
123-124			
124-125			
<b>TOTAL</b>	<b>103</b>		<b>103</b>



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## SECTOR 5

North of Farnes to Scottish Border



**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	5	<b>RELEASE SECTOR</b>	5
<b>DATE</b>	10/08/2011		
<b>START RELEASE</b>	55-45.05 N	001-57.46 W	
<b>END RELEASE</b>	55-44.25 N	001-56.46 W	

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	6	1	7
88-89	7	1	8
89-90	2		2
90-91	2	3	5
91-92	5	1	6
92-93	3		3
93-94	4	1	5
94-95	3		3
95-96	4		4
96-97	1	1	2
97-98	6		6
98-99	1	3	4
99-100	4		4
100-101	1		1
101-102	1		1
102-103	1		1
103-104			
104-105	1		1
105-106	2		2
106-107	1		1
107-108			
108-109	4		4
109-110	2		2
110-111	4	1	5
111-112	4		4
112-113	2		2
113-114	2		2
114-115	1		1
115-116	3		3
116-117			
117-118	3		3
118-119	1		1
119-120	1		1
120-121	1		1
121-122			
122-123			
123-124			
124-125	5	1	6
<b>TOTAL</b>	<b>88</b>	<b>13</b>	<b>101</b>

**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	<b>6</b>	<b>RELEASE SECTOR</b>	<b>5</b>
<b>DATE</b>	<b>10/08/2011</b>		
<b>START RELEASE</b>	<b>55-41.48 N</b>	<b>001-46.69 W</b>	
<b>END RELEASE</b>	<b>55-40.46 N</b>	<b>001-45.53 W</b>	

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	2	1	3
88-89	4		4
89-90	4		4
90-91	5	1	6
91-92	1	1	2
92-93	4		4
93-94	3		3
94-95	2	2	4
95-96	5		5
96-97	5	3	8
97-98	5	2	7
98-99	2		2
99-100	1		1
100-101	1	1	2
101-102	3	1	4
102-103	4		4
103-104			
104-105	1		1
105-106			
106-107	4	1	5
107-108			
108-109	4		4
109-110		1	1
110-111	5		5
111-112	2		2
112-113	2		2
113-114	2		2
114-115			
115-116	1		1
116-117	1		1
117-118			
118-119			
119-120			
120-121			
121-122	1		1
122-123	3		3
123-124	4		4
124-125	5		5
<b>TOTAL</b>	<b>86</b>	<b>14</b>	<b>100</b>

**LOBSTER 'V' NOTCH RECORDING SHEET**

<b>RELEASE NUMBER</b>	<b>11</b>	<b>RELEASE SECTOR</b>	<b>5</b>
<b>DATE</b>	<b>22/09/2011</b>		
<b>START RELEASE</b>	<b>55-47-47N</b>	<b>00158-58W</b>	
<b>END RELEASE</b>	<b>55-46-30N</b>	<b>00158-12W</b>	

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	6		6
88-89	3		3
89-90	3		3
90-91	15		15
91-92	15		15
92-93	13		13
93-94	13		13
94-95	6		6
95-96	7		7
96-97	3		3
97-98	2		2
98-99	5		5
99-100	1		1
100-101	4		4
101-102			
102-103			
103-104			
104-105	2		2
105-106			
106-107			
107-108			
108-109	1		1
109-110	1		1
110-111			
111-112			
112-113			
113-114			
114-115			
115-116			
116-117			
117-118			
118-119			
119-120			
120-121			
121-122			
122-123			
123-124			
124-125			
<b>TOTAL</b>	<b>100</b>		<b>100</b>

**LOBSTER 'V' NOTCH RECORDING SHEET**

**TOTAL 2011**

Lobster Size Range (mm)	Development of Eggs		TOTAL
	Coloured green/black	Eggs eyed/hatching	
87-88	82	12	94
88-89	69	11	80
89-90	53	8	61
90-91	87	22	109
91-92	92	8	100
92-93	101	7	108
93-94	90	13	103
94-95	72	8	80
95-96	55	4	59
96-97	30	7	37
97-98	37	7	44
98-99	37	11	48
99-100	31	8	39
100-101	33	3	36
101-102	25	8	33
102-103	21	2	23
103-104	10	1	11
104-105	20		20
105-106	4	1	5
106-107	9	2	11
107-108	2		2
108-109	16	5	21
109-110	16	2	18
110-111	19	1	20
111-112	11	3	14
112-113	10	1	11
113-114	7	1	8
114-115	10		10
115-116	7		7
116-117	3		3
117-118	7		7
118-119	7		7
119-120	8		8
120-121	3		3
121-122	6		6
122-123	3		3
123-124	7		7
124-125	32	4	36
<b>Total</b>	<b>1132</b>	<b>160</b>	<b>1292</b>