



Rampion Offshore Wind Farm



ES Section 8 – Fish & Shellfish Ecology - Appendix 8.5

Brown & May Marine Ltd

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Rampion Offshore Wind Farm

Black Bream Survey

May 2012

**Undertaken by
Brown & May Marine Ltd**

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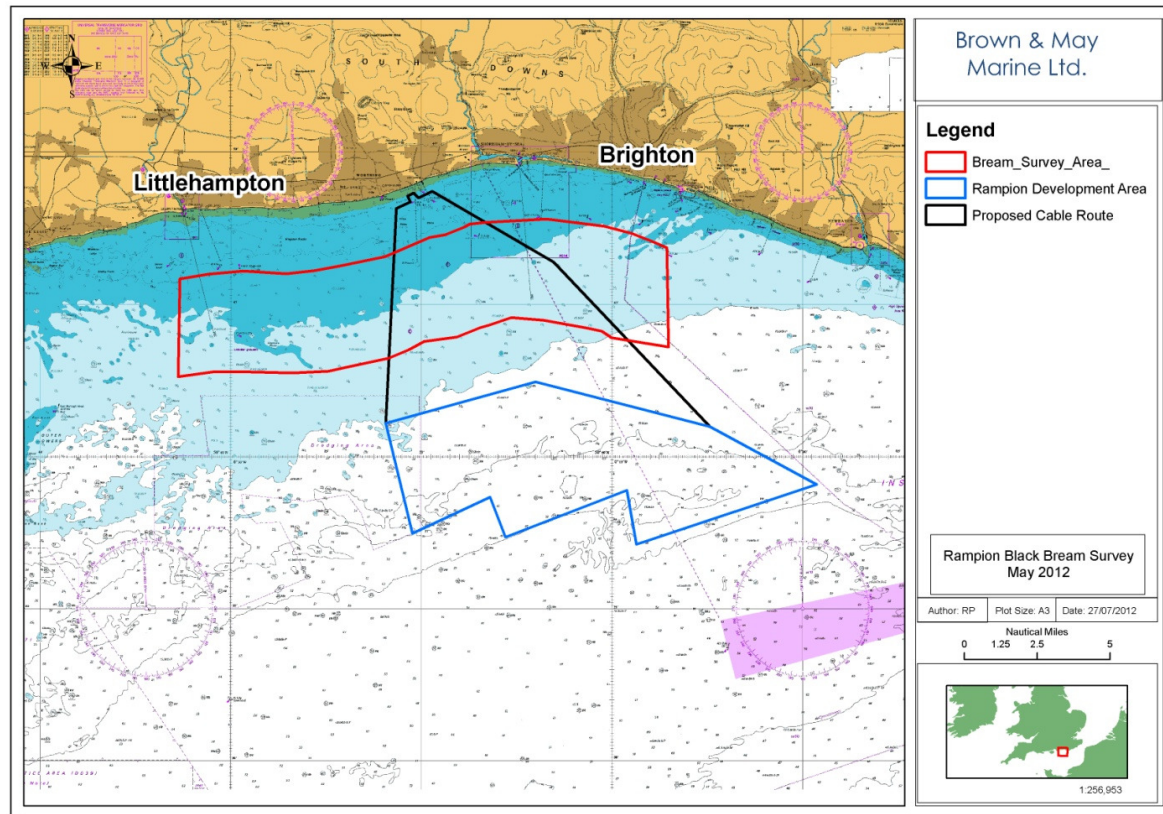
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1.0 Study Areas



2.0 Black Bream Results

2.1 Abundance and Weight

The total number of individuals caught and average weight by date of landing is given in Table 2.1. As can be seen the average weight of individual fish ranged from 256.2g to 463.0g.

Table 2.1 Abundance and Weight

Date of Landing	Number of Individuals	Total Weight (g)	Average Weight per Fish (grams)
01/05/2012	139	48,817	351.2
08/05/2012	135	40,825	302.4
17/05/2012	161	53,617	333.0
22/05/2012	109	50,466	463.0
28/05/2012	26	9,340	359.2
29/05/2012	199	50,993	256.2
Total	769	254,058	

2.2 Length Distribution

The average length (cm) by date and length range of black sea bream are given in Table 2.2, in addition the length distribution for the whole catch is shown in Figure 2.1.

Table 2.2 Average Length and Length Range

Date of Landing	Average Length (cm)	Minimum Length (cm)	Maximum Length (cm)
01/05/2012	27.3	24	31
08/05/2012	25.5	22	37
17/05/2012	26.5	22	33
22/05/2012	30.4	24	33
28/05/2012	27.2	21	36
29/05/2012	24.8	22	30
Average	26.6	21	37

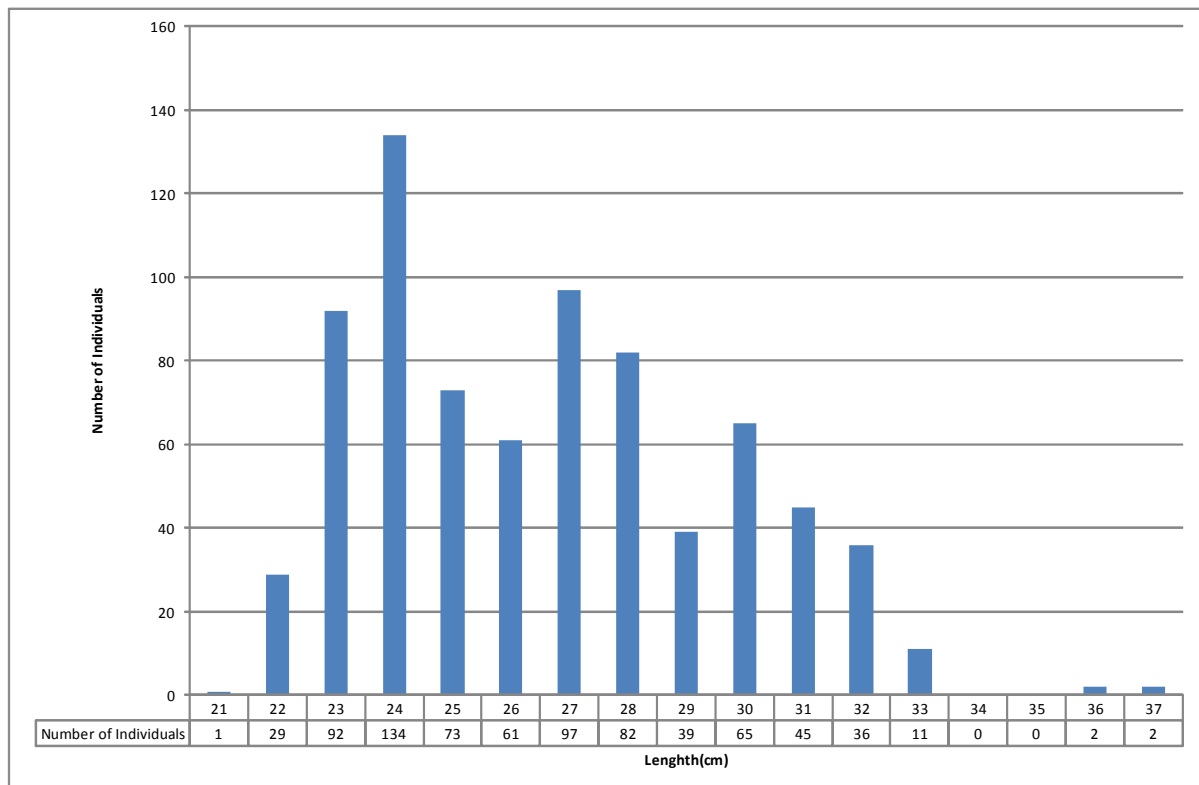


Figure 2.1 Black Bream Length Distribution

2.3 Sex Percentage

The sex percentage of black bream by date is illustrated in Figure 2.2. It should be noted that Cefas were unable to confidently determine the sex of two individuals and as such they have been classified as “Unsexed”. Overall a greater number of female bream were caught compared to males (59.6%).

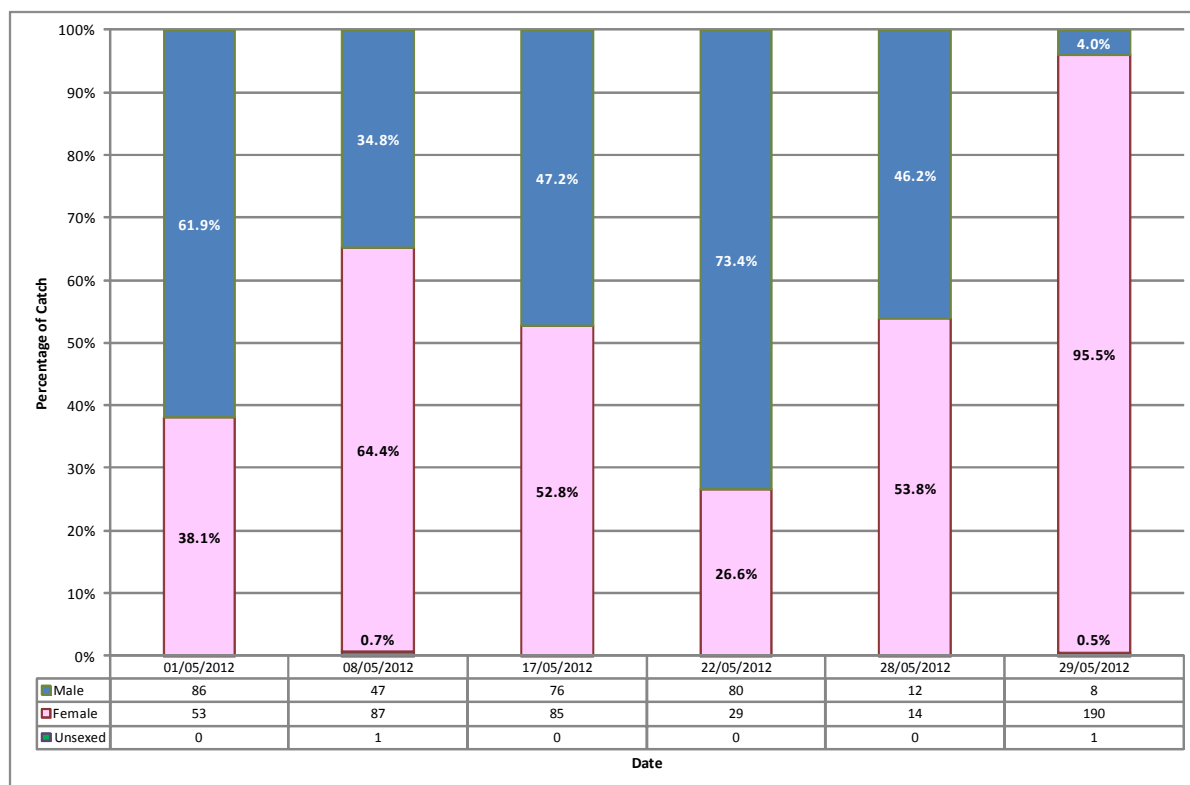


Figure 2.2 Sex Percentage of Black Bream by Date

2.4 Spawning Condition

The sex and spawning condition of black bream by date of landing is given in Table 2.1, below. As mentioned previously two individuals were “Unsexed” and therefore no maturity stage could be given, as a result they have been classified as “Unknown”. All of the black bream caught were maturing fish.

Table 2.3 Black Bream Spawning Condition

Date	Sex	Maturity Stage	Number of Individuals	% of Catch
01/05/2012	Female	Maturing	53	38.1%
	Male	Maturing	86	61.9%
08/05/2012	Female	Maturing	87	64.4%
	Male	Maturing	47	34.8%
	Unsexed	Unknown	1	0.7%
17/05/2012	Female	Maturing	85	52.8%
	Male	Maturing	76	47.2%
22/05/2012	Female	Maturing	29	26.6%
	Male	Maturing	80	73.4%
28/05/2012	Female	Maturing	14	53.8%
	Male	Maturing	12	46.2%
29/05/2012	Female	Maturing	190	95.5%
	Male	Maturing	8	4.0%
	Unsexed	Unknown	1	0.5%