

JNCC Report No: 543 Appendix 3

Analysis of long-term effort-related land-based observations to identify whether coastal areas of harbour porpoise and bottlenose dolphin have persistent high occurrence and abundance

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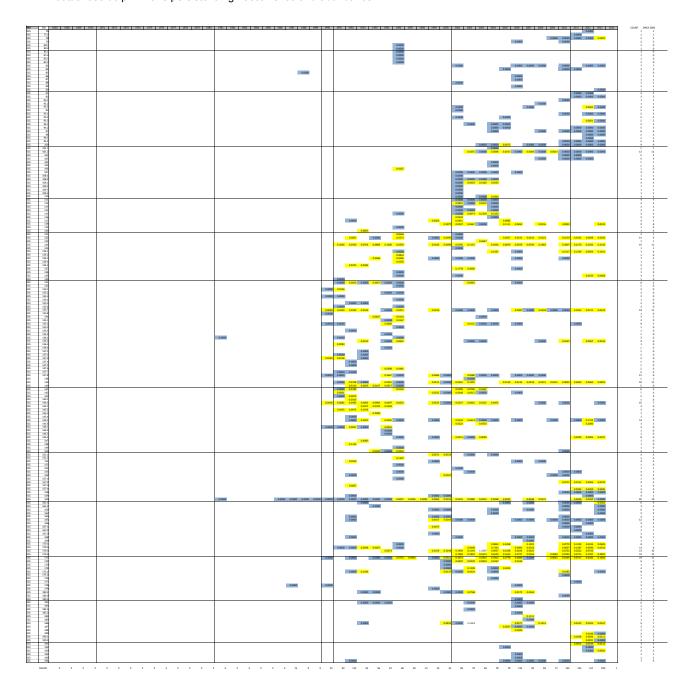
APPENDIX 3: Persistence Tables

There are eight tables (five for bottlenose dolphin and three for harbour porpoise), arranged by management unit. These provide full details of effort and count rates by year from 1965 to the present, for each site within that management unit. Any entry in blue indicates effort in that year without any sightings of that species. Entries in yellow indicate positive sightings and provide the count rates for that year. Count rates are expressed as numbers of animals per minute of observation. At the end of the matrix is the sum of years for which there was watch effort from 1965 onwards, and then since 2000.

Inevitably, with many sites and years, it is a very large table so is presented in pdf form enabling one to zoom in as needed, to see the fine detail.

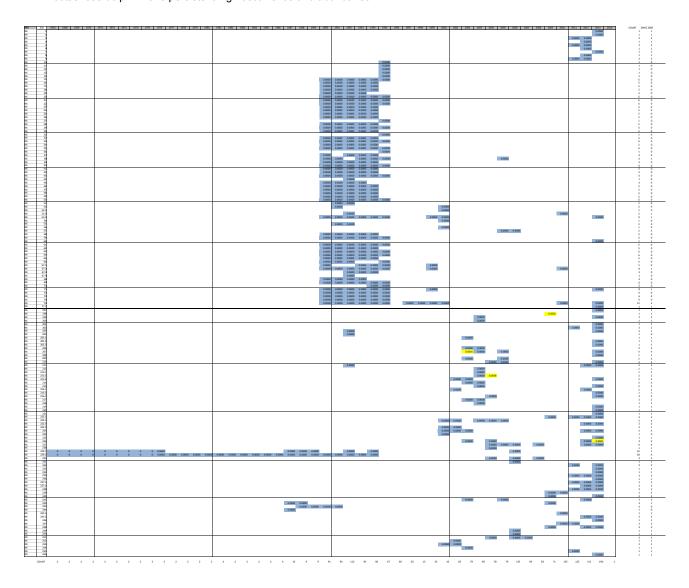
Bottlenose Dolphin:

ECS (East Coast Scotland) Management Unit



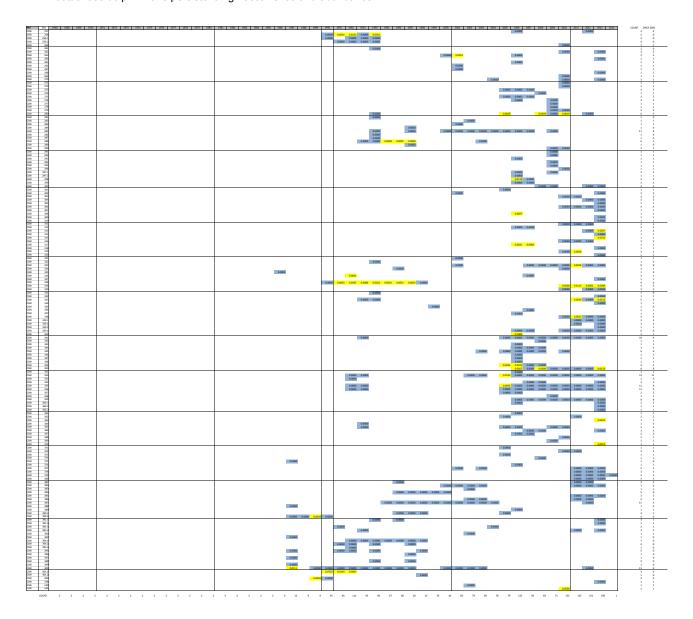
Bottlenose Dolphin:

NS (North Sea) Management Unit



Bottlenose Dolphin:

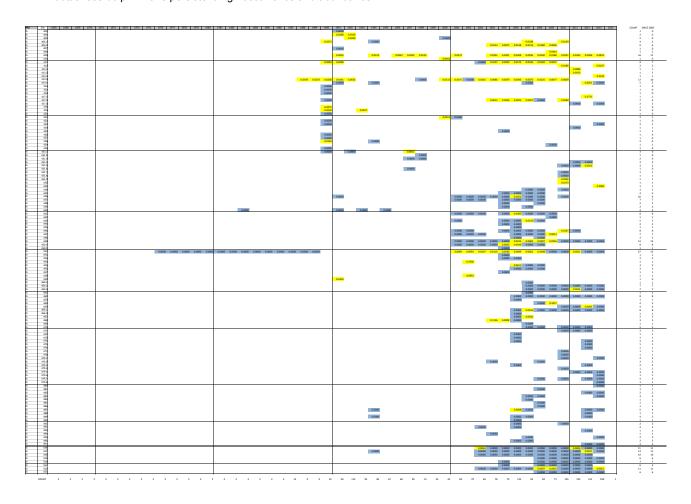
CSW (Channel & Southwest England)
Management Unit



Bottlenose Dolphin:

IS (Irish Sea) Management Unit

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Bottlenose Dolphin:

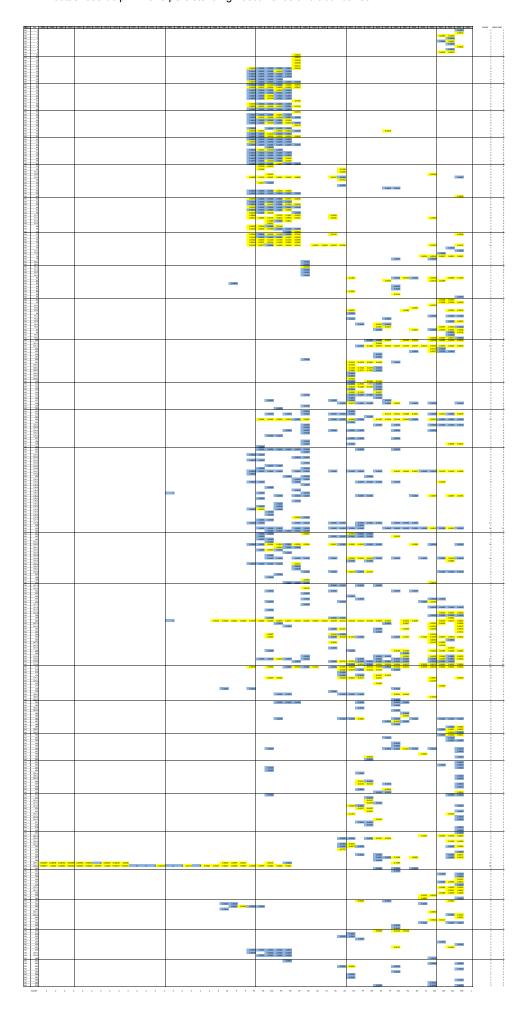
WCS (West Coast Scotland) & OS (Offshore)
Management Units

Analysis of long-term effort-related land-based observations to identify whether coastal areas of harbour porpoise and bottlenose dolphin have persistent high occurrence and abundance

WU 59 1	1965 1968 1969 1970	1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	1981 1982 1983 1984 1985 1985 1987 1888 1989 1990	1991 2992 1993 1994 1995 2996 1997 1998 2999 2000	2001 2002 2003 2006 2006 2006 2006 2007 2008 2009 2010 2011 2012 2018 2016	COUNT SINCS 2000
66 541					0.0000 0.0000 0.0000 0.0000 0.0000	
WCS 696					0.0000	1 1
WCS 699					0.0000 0.0000	2 2
WCS 500					0,0000 0,0000 0,0000	3 3
WCS 501					0.000	1 1
WCS 503 WCS 508.1				0.0000		1 0
WCS 503.1					6300	1 1
				0.0000	0.000	1 1
WCS SOS				0.0000	60EG	1 0
WCS SON						1 1
WCS 506 WCS 507				0.0000	0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000	2 2
WCS 508					0.0003 0.0000 0.0005 0.0000 0.0000 0.0000 0.0000	1 1
WCS 509					0.0000	1 1
WCS 510					0.0000	1 1
WCS 511					6000	
WCS S12						1 1
WCS S13					0.0000	1 1
WCS 516 WCS 516					0.0000	1 1
WCS 516 WCS 515 WCS 516.1				0.0000	0.0000	2 1
WCS 516.1					0.0000 0.0000 0.0000	3 3
WCS 516.2					0.0000 0.0000 0.0000	4 4
WCS 517					0.0000 0.0000 0.0000 0.0000	4 4
WCS 518			0.0000			1 0
WCS S19					0.0000	1 1
WCS S20					0.0000	1 1
WCS S21				0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	9 8
WCS 523				0.0000	0.0000 0.0000 0.0000	5 4
WCS 524					0.000	1 1
WCS 528 WCS 526 WCS 525.1				0.0000	0.0600	1 1
WCS 525.3				0.0000		1 1
WCS 525.3				0.0000	C0069 0.0066 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	
WCS 526				0.0000 0.0000	0.0000	11 9
WCS 529					C.0076 G.0000 C.0000 G.0000 G.0000 G.0000 G.0000 G.0000 G.0000 G.0000	1 1
MC4 527					0.0122 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	10
WCS 528 WCS 529					0.062 0.000	
WCS 530					0,000	i i
WCS 581					0.000 0.000 0.000 0.000	
WCS 532					0.0000 0.0000 0.0000 0.0000	4 4
WCS 533					0,000 0,003	2 2
WCS S36					0.0060 0.0000 0.0000 0.0000	4 4
WCS 535					0.0000	1 1
WCS 536			0.0222	0.0000 0.0000	0.0000 0.00% 0.00% 0.00% 0.00%	7 4
WCS 527			0.0000		0.0000	2 1
WCS 542					0.0000 0.0000 0.0000 0.0000 0.0000	, ,
WCS S49					e.0000 0.0000 0.0000 0.0000 0.0000	s s
WCS S66					0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	10 10
WCS S4S					0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	2 2
COUNT	2 2 2 2	2 2 2 2 2 2 2 2 2 2	4 2 3 2 2 4 15 9 9 90	1 94 112 93 96 67 60 20 13 36 6	1 83 79 69 78 79 135 94 83 71 135 125 151 190 1	

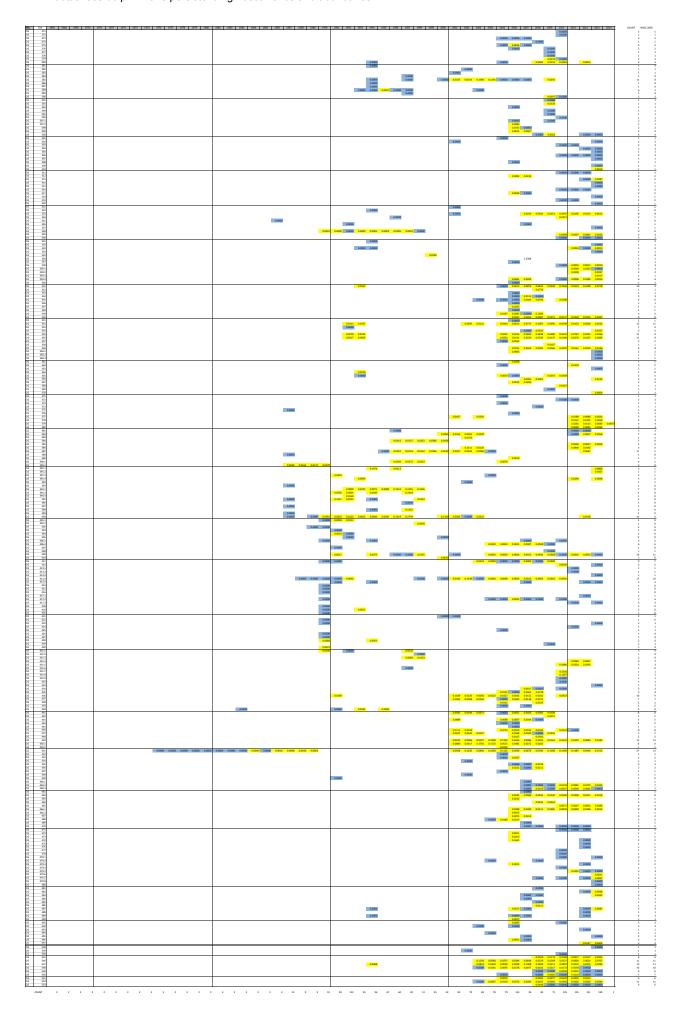
Harbour Porpoise:

NS (North Sea) Management Unit



Harbour Porpoise:

CIS (Celtic & Irish Seas) Management Unit



Harbour Porpoise:

WS (West Scotland) Management Unit

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U Sca 1865 1968 1669 1970	2971 1972 1972 1974 1975 1976 1977 1978 1979 1980	2961 1682 1883 2964 1585 1886 2967 1688 1689 1990	1965 1982 1983 1984 1985 1986 1997 1988 1989 3000	2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	COUNT SINCE 20
\$ 808 \$ 909 \$ 500				0.0002 0.0007 0.00007 0.00007 0.0000	1 2 3
\$ 500 \$ 500 \$ 500.1			0.0000	0.0000	1 1 1
5 501.2 5 506 5 506			6.0000	0.0513	1
166 160 160			0.0000	0.002	9
S 509 S 510 C 511				0.0000	1
512 512 513				0.0022 0.0022 0.0022	1 1
515 5161			0.0000	0.0000	1 2 3
595.3 527 538		0.1000		0.0000 0.0000 0.0000 0.0000 0.0000	4 4 1
5 519 5 530 5 531			0016	0.0667 6.3222 0.6610 0.5648 0.0000 0.0278 0.0000 0.0348	1 1
522 528 534			0.03940 0.00000	\$3104 0.0222 0.0510 50544 0.0000 0.0278 0.0000 0.038 5500 0.0000 0.6667 0.0000 0.0000 0.0000	1
SSS SSS SSS SSS SSS SSS SSS SSS SSS SS			0.0280 0.0220 0.0000	0.0060 0.0000 0.0112 0.0009 0.0222 0.0002 0.0003 0.0005 0.0005	1
526 527			C.000C G.01KO	0.0074 0.1000 0.0660 0.0000 0.0096 0.1222 0.0233 0.0279 0.0123 0.0255	11 1 10
536 536 536				0.0000 0.0000 0.0000 0.0000 0.0000	2 2 1
532 532 533				### 0,000 ### 0,	4 2
\$36 \$36 \$36		0.022	0.0666 0.0022	88167 0 8606 0 00250 0 00234 0 0235 0 0026 0 0026	1 2
527 542		6.0053		0.0000 0.000000	- 1
544 545				0.0008 0.0009 0.0008 0.0071 0.0142 0.0127 0.0286 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000	5 10 7
561 566 565 COUNT 2 2 2 :	2 2 2 2 2 2 3 2 2 2	4 2 3 2 2 4 15 9 9 91	94 112 93 % 67 60 20 13 35 43	0.0038 0.0069 0.0098 0.0071 0.0142 0.0137 0.0139 0.0152 0.0231 0.0295	5 10 7