Supplementary material. Table 1 : Reconstructed list of stranded Cetaceans along the Moroccan coast from 1980 to 2009. Confidence : confidence level of taxonomic identification, 1: verifed, 2: made by scientist, 3: made by amateur. DCC: Decomposition Condition Code (Jauniaux *et al.,* 2002).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Taxonomy** | **Year** | **Month** | **Confidence** | **LTot (m)** | **Sex** | **DCC** | **Lat** | **Long** |
| ***B. acutorostrata*** | 1997 | 6 | 2 | 7 |  | **1** | 35.24 | -3.92 |
|  | 2002 | 8 | 1 | 4.5 | M | **1** | 23.63 | -15.99 |
|  | 2003 | 3 | 2 | 4 |  | **2** | 34.27 | -6.65 |
|  | 2003 | 8 | 2 | 5 |  | **1** | 24.10 | -15.55 |
| ***B. borealis*** | 1993 | 2 | 1 | 13 |  | **2** | 33.37 | -8.25 |
|  | 1996 | 1 | 1 | 13 | M | **1** | 33.24 | -8.49 |
|  | 1996 | 7 | 1 | 14.85 | F | **1** | 26.72 | -13.58 |
|  | 1996 | 12 | 2 | 15 |  |  | 27.09 | -13.41 |
|  | 1998 | 2 | 2 | 12 |  | **4** | 30.58 | -9.75 |
|  | 1998 | 4 | 2 | 9 |  | **5** | 33.27 | -8.39 |
|  | 1998 | 6 | 3 | 12.8 | F | **2** | 21.76 | -2.29 |
|  | 1998 | 11 | 3 | 4.53 | F | **1** | 27.09 | -13.42 |
|  | 1999 | 9 | 2 | 6.4 |  | **4** | 26.12 | -14.49 |
|  | 2002 | 7 | 2 | 17 |  | **3** | 24.55 | -15.01 |
|  | 2005 | 6 | 3 | 10 |  | **4** | 23.21 | -16.11 |
|  | 2008 | 7 | 2 | 8 |  | **1** | 23.90 | -15.78 |
| ***B. physalus*** | 1990 | 2 | 3 | 18 |  | **3** | 35.49 | -6.02 |
|  | 1992 | 6 | 2 | 13 | M | **1** | 35.88 | -5.54 |
|  | 1993 | 4 | 3 | 20 | F | **3** | 35.24 | -3.95 |
|  | 1994 | 2 | 2 | 16.4 |  | **3** | 34.28 | -6.65 |
|  | 1994 | 7 | 1 | 9 | M | **1** | 30.58 | -9.75 |
|  | 1994 | 8 | 3 | 7 | M | **4** | 35.54 | -5.21 |
|  | 1995 | 1 | 1 | 19.5 | M | **1** | 33.61 | -7.60 |
|  | 1995 | 10 | 3 | 13 | F | **1** | 27.94 | -12.93 |
|  | 1995 | 10 | 1 | 13 | F | **1** | 27.96 | -12.90 |
|  | 1995 | 10 | 3 | 6 | M | **4** | 35.84 | -5.35 |
|  | 1995 | 12 | 2 | 12.2 | F | **4** | 34.27 | -6.65 |
|  | 1996 | 4 | 1 | 15 | M | **3** | 33.30 | -8.35 |
|  | 1997 | 1 | 1 | 7.5 | M | **1** | 35.75 | -5.34 |
|  | 1997 | 2 | 3 | 6 | M | **1** | 35.22 | -3.92 |
|  | 1998 | 7 | 2 | 19 |  | **5** | 28.84 | -10.83 |
|  | 1999 | 10 | 2 | 23 | F | **2** | 35.30 | -6.29 |
|  | 2002 | 11 | 2 | 13 |  | **4** | 35.14 | -4.36 |
|  | 2005 | 9 | 1 | 9.4 | F | **1** | 32.30 | -9.25 |
|  | 2006 | 9 | 1 | 20 |  | **2** | 33.79 | -7.23 |
|  | 2006 | 11 | 1 | 13 | M | **1** | 33.60 | -7.61 |
|  | 2007 | 3 | 2 | 19 |  | **2** | 30.58 | -9.75 |
|  | 2007 | 6 | 2 | 11.9 |  |  | 27.95 | -12.86 |
|  | 2008 | 7 | 1 | 12.5 |  | **1** | 33.60 | -7.63 |
|  | 2008 | 10 | 2 | 20 |  | **4** | 33.80 | -7.23 |
|  | 2008 | 12 | 2 | 21 |  | **3** | 29.49 | -10.07 |
| ***M. novaengliae*** | 1993 | 10 | 1 | 11.3 |  | **1** | 34.28 | -6.65 |
|  | 1995 | 10 | 2 | 11.34 | M | **1** | 30.58 | -9.75 |
|  | 2002 | 4 | 1 | 6.1 |  | **4** | 35.47 | -6.02 |
|  | 2008 | 3 | 1 | 15 |  | **2** | 35.89 | -5.49 |
|  | 2009 | 4 | 2 | 8.3 |  | **4** | 23.63 | -15.99 |
| ***Balaenoptera sp.*** | 1996 | 1 | 3 | 4 |  | **1** | 23.87 | -15.74 |
|  | 1996 | 1 | 3 | 4 |  | **1** | 23.87 | -15.74 |
|  | 1998 | 4 | 3 | 9 |  | **5** | 33.44 | -8.04 |
|  | 1998 | 11 | 3 | 10 |  | **4** | 28.84 | -10.83 |
|  | 1998 | 11 | 3 | 10.3 |  |  | 28.84 | -10.83 |
|  | 1999 | 5 | 3 | 4 |  | **1** | 33.26 | -8.50 |
|  | 2002 | 6 | 3 | 11 |  | **4** | 24.06 | -15.57 |
|  | 2007 | 5 | 3 | 4.6 |  | **5** | 35.38 | -6.08 |
|  | 2007 | 6 | 2 | 3.4 |  |  | 27.19 | -13.38 |
|  | 2007 | 7 | 3 | 4.3 |  | **5** | 35.47 | -6.08 |
| ***Balaenopteridae*** | 1993 | 12 | 3 |  |  |  | 35.78 | -5.80 |
|  | 2001 | 10 | 3 | 12 |  |  | 35.36 | -6.11 |
|  | 2002 | 9 | 3 | 9 |  | **5** | 35.11 | -2.76 |
|  | 2003 | 2 | 3 | 21 |  | **4** | 33.32 | -8.35 |
|  | 2006 | 12 | 3 | 10 |  | **3** | 33.24 | -8.49 |
| ***D. delphis*** | 1994 | 2 | 2 | 2.11 | F | **2** | 35.55 | -5.24 |
|  | 1994 | 7 | 2 | 1.8 |  | **3** | 34.14 | -6.83 |
|  | 1995 | 1 | 3 | 1.4 |  | **3** | 33.26 | -8.50 |
|  | 1998 | 8 | 2 | 1.7 |  | **2** | 33.44 | -8.04 |
|  | 1998 | 8 | 2 |  |  | **2** | 34.25 | -6.70 |
|  | 1999 | 8 | 2 | 2 |  | **3** | 33.44 | -8.04 |
|  | 1999 | 8 | 2 | 3 |  | **3** | 33.37 | -8.25 |
|  | 1999 | 8 | 2 | 2 |  | **1** | 33.27 | -8.49 |
|  | 2002 | 9 | 1 |  |  |  | 27.95 | -12.89 |
|  | 2004 | 6 | 2 | 2.1 | F | **1** | 34.03 | -6.83 |
|  | 2005 | 3 | 2 | 1.2 |  | **2** | 34.03 | -7.20 |
|  | 2006 | 8 | 1 | 1.9 | M | **1** | 33.67 | -7.45 |
|  | 2006 | 8 | 1 | 1.75 | M | **1** | 33.67 | -7.45 |
|  | 2007 | 2 | 2 | 1.75 |  |  | 35.14 | -4.36 |
|  | 2007 | 5 | 1 | 2.05 |  | **1** | 35.73 | -5.96 |
|  | 1997 | 8 | 2 | 1.6 |  | **1** | 33.04 | -8.76 |
| ***S. bredanensis*** | 2002 | 9 | 1 | 1.5 |  |  | 27.95 | -12.89 |
| ***S. coeruleoalba*** | 1994 | 2 | 2 | 1.32 | F |  | 35.54 | -5.23 |
|  | 1994 | 2 | 2 | 2.11 |  |  | 35.55 | -5.24 |
|  | 1996 | 8 | 2 | 1.8 | M | **1** | 35.54 | -5.24 |
|  | 1998 | 7 | 1 | 2.2 |  | **3** | 28.84 | -10.83 |
|  | 1999 | 3 | 3 | 2 | M | **5** | 26.38 | -14.20 |
|  | 1999 | 3 | 1 | 1.89 | M | **3** | 26.38 | -14.20 |
|  | 2003 | 2 | 2 | 1.9 |  |  | 33.60 | -7.63 |
|  | 2003 | 4 | 2 | 2.08 |  | **1** | 35.24 | -3.95 |
|  | 2003 | 4 | 1 |  |  | **1** | 33.60 | -7.63 |
|  | 2003 | 6 | 1 | 2.3 |  | **5** | 30.60 | -9.77 |
|  | 2004 | 5 | 1 | 2.05 | F | **1** | 30.58 | -9.75 |
|  | 2004 | 5 | 1 | 2.14 | F | **1** | 30.41 | -9.60 |
|  | 2004 | 5 | 1 | 1.9 | M | **4** | 30.60 | -9.81 |
|  | 2005 | 1 | 2 | 1.6 | M |  | 35.24 | -3.95 |
|  | 2005 | 1 | 1 |  |  | **1** | 35.83 | -5.70 |
|  | 2005 | 7 | 2 | 1.4 |  | **4** | 35.24 | -4.36 |
|  | 2005 | 8 | 1 | 2.23 |  | **1** | 30.58 | -9.75 |
|  | 2005 | 8 | 1 |  |  | **3** | 35.70 | -5.34 |
|  | 2005 | 8 | 1 |  |  | **1** | 35.79 | -5.79 |
|  | 2005 | 8 | 1 |  |  | **2** | 35.82 | -5.75 |
|  | 2005 | 8 | 1 | 2.13 |  | **1** | 30.50 | -9.75 |
|  | 2005 | 8 | 1 | 1.8 |  | **3** | 35.84 | -5.47 |
|  | 2006 | 1 | 1 | 2.12 |  | **2** | 35.83 | -5.70 |
|  | 2006 | 2 | 2 | 2.15 | F | **2** | 26.12 | -14.49 |
|  | 2006 | 2 | 2 | 2.06 | M | **2** | 30.40 | -9.60 |
|  | 2006 | 3 | 1 | 2.23 | F |  | 26.91 | -13.48 |
|  | 2006 | 12 | 1 | 2.11 |  | **1** | 35.82 | -5.70 |
|  | 2007 | 2 | 1 | 2.1 |  | **3** | 27.19 | -13.38 |
|  | 2007 | 4 | 1 | 2.14 |  | **1** | 35.83 | -5.65 |
|  | 2007 | 4 | 1 | 1.64 |  | **3** | 35.66 | -5.96 |
|  | 2007 | 6 | 1 | 1.9 |  | **3** | 35.66 | -6.01 |
|  | 2007 | 10 | 1 | 2 | F | **2** | 33.53 | -7.78 |
|  | 2008 | 4 | 2 | 1.51 |  | **1** | 33.53 | -7.78 |
|  | 2008 | 11 | 1 | 2.2 |  | **2** | 33.53 | -7.90 |
|  | 2009 | 5 | 1 | 2 |  | **1** | 33.60 | -7.63 |
| ***T. truncatus*** | 1993 | 6 | 3 | 4 | M | **4** | 35.84 | -5.57 |
|  | 1996 | 8 | 2 | 2.3 | M | **1** | 30.58 | -9.75 |
|  | 1999 | 2 | 3 | 3.6 | M | **5** | 35.27 | -3.10 |
|  | 1999 | 4 | 1 | 3.6 |  | **4** | 35.27 | -3.57 |
|  | 2000 | 5 | 2 | 1.96 | M | **1** | 35.23 | -2.90 |
|  | 2000 | 5 | 3 | 2 |  | **1** | 35.23 | -2.96 |
|  | 2005 | 9 | 2 |  |  | **3** | 35.68 | -5.33 |
|  | 2006 | 1 | 1 | 2 |  | **2** | 35.90 | -5.49 |
|  | 2006 | 11 | 1 | 2.19 |  | **4** | 35.85 | -5.54 |
|  | 2007 | 5 | 1 | 2.72 |  | **5** | 35.85 | -5.56 |
|  | 2007 | 7 | 2 | 2.1 | M | **4** | 30.58 | -9.75 |
|  | 2008 | 8 | 1 | 2.26 | M | **1** | 33.49 | -7.90 |
|  | 2009 | 5 | 1 | 3 |  | **1** | 35.77 | -5.94 |
| ***Delphininae*** | 1995 | 1 | 3 | 1.4 |  |  | 33.26 | -8.62 |
|  | 1997 | 8 | 3 | 1.75 |  |  | 33.30 | -8.35 |
|  | 1998 | 8 | 3 |  |  | **2** | 34.20 | -6.73 |
|  | 1998 | 8 | 3 | 1.7 |  |  | 33.44 | -8.25 |
|  | 1999 | 6 | 3 | 2.6 |  | **4** | 30.41 | -9.60 |
|  | 1999 | 8 | 3 | 3 |  | **5** | 33.37 | -8.33 |
|  | 1999 | 8 | 3 | 2 |  | **5** | 32.82 | -9.04 |
|  | 2001 | 10 | 3 | 5.3 |  | **2** | 35.22 | -4.88 |
|  | 2003 | 3 | 3 | 1.9 |  |  | 33.60 | -7.66 |
|  | 2003 | 5 | 3 | 5 |  | **5** | 32.97 | -8.84 |
|  | 2003 | 8 | 3 | 2.4 |  |  | 32.73 | -9.13 |
|  | 2004 | 2 | 3 | 1.8 |  |  | 35.33 | -2.97 |
|  | 2004 | 2 | 3 | 1.8 |  |  | 35.43 | -3.10 |
|  | 2004 | 4 | 3 | 2.5 |  | **5** | 22.11 | -16.82 |
|  | 2004 | 9 | 3 | 1.3 |  |  | 32.87 | -8.92 |
|  | 2004 | 9 | 3 | 1.3 |  |  | 33.24 | -8.50 |
|  | 2005 | 3 | 3 | 1.57 |  | **2** | 35.33 | -4.95 |
|  | 2006 | 4 | 3 | 1.44 |  |  | 35.34 | -5.21 |
|  | 2006 | 4 | 3 | 1.5 |  | **2** | 35.18 | -4.60 |
|  | 2006 | 12 | 3 | 2.1 |  | **5** | 27.19 | -13.38 |
|  | 2009 | 1 | 3 | 210 |  | **4** | 33.49 | -7.96 |
| ***G. griseus*** | 1994 | 4 | 2 | 3 | F | **1** | 30.41 | -9.60 |
|  | 2003 | 3 | 2 | 3.05 | M | **4** | 30.71 | -9.856 |
|  | 2004 | 5 | 1 | 3.2 | M | **4** | 30.58 | -9.76 |
|  | 2005 | 5 | 2 | 3.7 |  | **5** | 35.30 | -4.93 |
| ***G. melas*** | 1990 | 3 | 2 |  |  | **3** | 27.09 | -13.42 |
|  | 1993 | 6 | 3 |  |  | **4** | 35.14 | -4.36 |
|  | 1995 | 8 | 2 | 6.5 |  | **1** | 35.54 | -5.23 |
|  | 1995 | 8 | 2 | 3.6 | F | **1** | 33.71 | -7.39 |
|  | 1995 | 8 | 2 | 3.2 | F | **1** | 33.71 | -7.45 |
|  | 1995 | 11 | 2 | 4.2 |  | **4** | 35.55 | -5.24 |
|  | 1996 | 8 | 2 | 4.3 | F | **1** | 35.55 | -5.32 |
|  | 1999 | 3 | 3 | 4.5 |  | **5** | 26.38 | -14.20 |
|  | 1999 | 3 | 1 | 4.5 |  | **4** | 26.38 | -14.20 |
|  | 2000 | 4 | 2 | 4 |  | **2** | 35.18 | -4.73 |
|  | 2002 | 4 | 2 | 2.25 |  | **1** | 35.24 | -3.93 |
|  | 2003 | 4 | 2 | 3 |  |  | 33.45 | -8.04 |
|  | 2003 | 4 | 2 | 4 |  | **4** | 35.13 | -2.90 |
|  | 2003 | 8 | 2 | 3.2 |  | **4** | 35.14 | -4.60 |
|  | 2005 | 5 | 1 |  |  | **3** | 35.76 | -5.35 |
|  | 2005 | 6 | 2 |  |  | **3** | 33.48 | -8.00 |
|  | 2006 | 10 | 1 |  |  | **1** | 35.88 | -5.49 |
| ***O. orca*** | 2001 | 12 | 1 | 3.2 | F | **3** | 27.20 | -13.38 |
|  | 2002 | 5 | 1 | 3 | M | **4** | 33.11 | -8.69 |
|  | 2005 | 7 | 1 | 5 | M |  | 33.30 | -8.39 |
| ***P. crassidens*** | 1994 | 4 | 3 |  | F | **1** | 30.41 | -9.68 |
|  | 1996 | 6 | 3 | 5 | F | **3** | 30.59 | -9.77 |
|  | 2005 | 4 | 1 |  |  | **1** | 35.78 | -5.80 |
|  | 2005 | 4 | 1 |  |  | **1** | 35.78 | -5.80 |
| ***P. Phocoena*** | 1997 | 7 | 2 | 1.82 | M |  | 27.09 | -13.42 |
|  | 2006 | 5 | 3 | 2.15 |  | **3** | 23.51 | -15.97 |
|  | 2006 | 5 | 2 | 0.85 |  | **4** | 23.51 | -15.97 |
|  | 2008 | 5 | 1 | 1.47 |  | **1** | 23.79 | -15.91 |
|  | 2008 | 8 | 1 | 1.2 | M | **1** | 33.67 | -7.56 |
|  | 2009 | 7 | 2 |  |  | **5** | 33.60 | -7.78 |
| ***K. breviceps*** | 2006 | 11 | 2 | 3.53 |  | **1** | 28.05 | -12.21 |
|  | 2006 | 11 | 3 |  |  |  | 35.78 | -5.80 |
|  | 2007 | 6 | 2 | 3.88 |  | **4** | 35.38 | -6.08 |
| ***P. macrocephalus*** | 1980 |  | 2 |  |  |  | 33.80 | -7.21 |
|  | 1986 |  | 2 | 10 |  |  | 35.25 | -3.95 |
|  | 1988 |  | 2 |  |  |  | 23.06 | -16.15 |
|  | 1989 | 8 | 2 |  |  |  | 35.78 | -5.80 |
|  | 1989 | 8 | 2 |  |  |  | 35.78 | -5.93 |
|  | 1990 | 1 | 2 | 9 |  |  | 32.31 | -9.25 |
|  | 1990 | 1 | 1 | 9.35 | M | **1** | 32.05 | -9.34 |
|  | 1994 | 3 | 1 | 8.2 |  | **1** | 34.28 | -6.67 |
|  | 1997 | 3 | 1 | 9.4 | F | **3** | 27.19 | -13.38 |
|  | 1998 | 3 | 2 | 13 |  | **1** | 32.05 | -9.60 |
|  | 1998 | 4 | 2 | 10 |  | **4** | 32.56 | -9.34 |
|  | 1999 | 3 | 2 | 12.5 |  | **1** | 27.94 | -12.93 |
|  | 1999 | 10 | 2 | 9.6 | F | **3** | 31.08 | -9.85 |
|  | 2001 | 12 | 1 | 12.9 |  | **4** | 35.77 | -5.80 |
|  | 2002 | 7 | 2 |  |  |  | 23.70 | -15.92 |
|  | 2003 | 7 | 1 | 3.25 | M |  | 33.79 | -7.39 |
|  | 2005 | 5 | 1 | 15.2 |  | **5** | 27.96 | -12.80 |
|  | 2006 | 5 | 1 | 12.8 |  | **1** | 34.88 | -6.64 |
|  | 2006 | 5 | 1 | 10.25 |  |  | 32.64 | -9.24 |
|  | 2007 | 2 | 1 | 4.7 |  | **3** | 35.38 | -6.08 |
| ***Z. cavirostris*** | 2002 | 5 | 2 | 5.2 |  | **3** | 32.89 | -8.86 |